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RECEIVED
By Alameda County Environmental Health at 2:22 pm, May 10, 2013

May 7, 2013

Alameda County Environmental Health Department
Attention: Jerry Wickham
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Byron Power Company, 4901 Bruns Rd., Byron CA

Dear Mr. Wickham:

Attached please find a report, entitled Subsurface Site Characterization Report, dated May 7, 2013, prepared for Byron Power Company by Quest GeoSystems. As a legal authorized representative of Byron Power, I declare under penalty of perjury that, on information and belief, the information and/or recommendations contained in the attached documents and/or reports are true and correct to the best of my knowledge.

Very truly yours,

William F. Murphy

Encl.

GSM
QUEST GEOSYSTEMS MANAGEMENT

May 7, 2013

Project: G09212012-02

Mr. Jerry Wickham
Alameda County Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

SITE: SLIC CASE RO0003079; GEOTRACKER GLOBAL ID T10000003401
BYRON POWER COMPANY
4901 BRUNS ROAD
BYRON, CALIFORNIA 94514

RE: SUBSURFACE SITE CHARACTERIZATION REPORT

Dear Mr. Wickham,

Quest GeoSystems Management (Quest) has prepared the enclosed report to document the results of the Subsurface Site Characterization performed at the above referenced Site in Byron, California. The site activities summarized in the enclosed report were performed consistent with the work scope outlined in previously submitted *Workplan for Additional Site Investigation* dated October 30, 2012 and *Workplan Addenda*, dated January 23, 2013. The investigation was performed consistent with the generally accepted environmental consulting principles and practices that are within the limitations described in the enclosed report. If you have any questions regarding this report, please contact us at (925) 756-1210.

Sincerely,
Quest GeoSystems Management, Inc.

Eric W. Garcia, CEG, CHG
Principal Geologist
PG# 7007, CEG# 2230, CHG# 765

Enclosure: Subsurface Site Characterization Report

cc: File

SUBSURFACE SITE CHARACTERIZATION REPORT

BYRON POWER COMPANY
4901 BRUNS ROAD
BYRON, CALIFORNIA 94514

Prepared for:
Byron Power Partners, L.P.
14 Philips Parkway
Montvale, NJ 07645

Prepared by:
Quest GeoSystems Management, Inc.
11275 Sunrise Gold Circle, Suite R
Rancho Cordova, California 95742-6561

May 7, 2013

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LIMITATIONS

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

The completed work summarized herein is intended to be a part of an ongoing interactive process. Additional work may be required to more fully assess the extent of petroleum hydrocarbon (PHC) migration in soil and groundwater. The purpose of a geological/hydrogeologic study is to reasonably characterize existing site conditions based on the geology/hydrogeology of the area. In performing such a study, it is understood that a balance must be struck between a reasonable inquiry into the site conditions and an exhaustive analysis of each conceivable environmental characteristic. Geologic/hydrogeologic conditions may exist at the site that cannot be identified solely by visual observation. Where subsurface exploratory work is performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations. Therefore, no investigation is thorough enough to describe all geologic/hydrogeologic conditions of interest at a given site. Conditions not identified during the study should not be construed as a guarantee of the absence of such conditions at the site, but rather a limitation of the scope of services performed within the scope, limitations, and cost of the work authorized by the client.

This work plan has been prepared by Quest GeoSystems Management for the exclusive use of Byron Power Partners, L.P. (Byron Power) as it pertains to the Site located at 4901 Bruns Road, Byron, California. Our professional services will be performed using the degree of care and skill ordinarily exercised under similar circumstances by other geologists and engineers practicing in this field. No warranty, expressed or implied, is made as to professional advice in this report. Any reliance on this report by a third party is at party's sole risk.

May 7, 2013

Eric W. Garcia, CEG, CHG
Principal Geologist
PG #7007; CEG #2230; CHG #765
expires 10/31/2013

Date

Quest GeoSystems Management Project # G09212012-02

1 INTRODUCTION

This report was prepared by Quest GeoSystems Management, Inc. (Quest) of Rancho Cordova, California on behalf of Byron Power Partners, L.P. (Byron Power). This report summarizes site assessment activities conducted at the Site located at 4901 Bruns Road, Byron, Alameda County, California (Figure 1). The workscope presented below was performed consistent with the previously submitted *Workplan for Additional Site Investigation* dated October 30, 2012; *Workplan Addenda*, dated January 23, 2013; with the requirements of the Alameda County Environmental Health (ACEH), as indicated in their letter dated May 1, 2012; and subsequent workplan approvals dated November 20, 2012, and January 24, 2013. The scope of work completed was intended to establish the presence of soil and groundwater impacts related to petroleum hydrocarbons (PHC's) other Constituents of Concern (COC's) at the Site. Monitoring well installations at the Site were completed under an approved drilling permit (#2012134) with the Zone 7 Water District (Appendix A). Soil probe operations at the Site were completed under an approved soil boring permit (#2013007) with the Zone 7 Water District (Appendix A).

1.1 SCOPE OF WORK

The objective of the site assessment was to collect representative samples of the soil and groundwater samples in order to establish the vertical and lateral impacts of subsurface petroleum hydrocarbons (PHC's) and other constituents of concern (COC's) beneath the Site. An additional objective of the site assessment was to collect representative samples of the onsite surface impoundment sediments and scale stockpiles for waste identification/classification. The following work scope was completed in order to achieve the above-referenced objectives.

1.1.1 Surface Impoundment Sediment and Scale Stockpile Assessment

As part of the site characterization, Quest conducted the following activities:

- The collection of representative sludge and scale samples from within the onsite surface impoundment and scale deposit stockpile, respectively;
- The samples were delivered under Chain-of-Custody documentation to a State-Certified analytical laboratory for chemical analysis; and
- Creation of this report, summarizing the results of the assessment.

1.1.2 Site Assessment

As part of the subsurface site characterization of the Site, Quest conducted the following activities:

- The installation of four (4) groundwater monitoring wells by hollow-stem auger;
- The collection of soil samples from within the well boreholes;
- The completion of fourteen (14) direct push locations by truck-mounted Geoprobe®;
- The collection of soil samples from within the soil boreholes;
- Conduct one (1) groundwater monitoring and sampling event;
- The collection of groundwater samples from the onsite monitoring wells;

- Select soil and groundwater samples were delivered under Chain-of-Custody documentation to a State-Certified analytical laboratory for chemical analysis; and
- Creation of this report, summarizing the results of the site assessment and to present the findings of the investigation.

1.2 BACKGROUND

A description of the Site, the geologic and hydrologic conditions, and the project history are summarized in the following subsections.

1.2.1 Site Description

The Site was operated by Byron Power Partners, L.P. dba Byron Power Company (Byron Power), and is located at 4901 Bruns Road, Alameda County, California and is at an approximate elevation of 104 feet above mean sea level (MSL). Figure 1 is a site location map depicting the regional location of the site.

The rectangular Site is situated in the middle of a larger parcel (County Assessor's Parcel Number 99B-7050-001-10) owned by Mr. Steve Shin-Der and Mrs. Puang J. Lee and encompasses an area of approximately 1.43 acres. The remainder of the property is approximately 158 acres consisting of undeveloped land used for cattle grazing.

1.2.2 Site History

The facility was an electric and thermal energy cogeneration facility, which was in operation from 1991 through 2008. Byron Power operated the facility from 1995 through its closure in 2008.

In May through July of 2008 Quest conducted a Phase I Environmental Assessment of the Site (*Phase I Environmental Assessment Report, APN: 99B-7050-001-10, 4901 Bruns Road, Alameda County, California*). On May 20, 2008, Quest personnel completed the site reconnaissance of the facility. As part of the field reconnaissance, Quest reviewed the facilities Hazardous Materials Business Plan (HMBP), which contained chemical descriptions of hazardous materials maintained at the facility. The following Hazardous Materials Inventory – Chemical Description pages were reviewed and were reported to have been located onsite:

- Ethylene Glycol - antifreeze;
- Petroleum Lubrication Oil - waste oil;
- Mobil Pegasos 805 - motor oil;
- Brominating Tablets;
- Mineral Spirits;
- Meras 2324 – corrosion inhibiter (Polymaleic acid, Hydroxyethylidene diphosphonic acid);
- Chemisis 6190 - corrosion inhibitor (polyethylene, sodium nitrite);
- Chemisis 4965 - corrosion inhibitor (unknown); and
- Chemisis 5520 – defoamer (unknown).
- Watercare 2381 – defoamer (unknown);
- Watercare 2323 – water treatment (potassium hydroxide);

In the course of conducting a Phase I Environmental Site Assessment of the Site, Quest personnel identified several areas of surface staining, which appeared to be impacted with petroleum hydrocarbons, and areas of wet soil or standing water.

Quest was retained by Byron Power to conduct a limited subsurface soil investigation in relation to the observations/recommendations identified in Section 6.3.8 of Quest's report titled *Phase I Environmental Assessment Report, APN: 99B-7050-001-10, 4901 Bruns Road, Alameda County, California* (Phase I), dated September 30, 2008.

On July 8, 2011, a Quest representative arrived at the Site to collect representative soil samples from areas of soil staining as identified in the Phase I. Upon arriving at the Site, Quest personnel observed additional areas of stained soils not originally noted in the Phase I report. Based on the field observations, additional soil sampling locations were completed. The samples were collected by hand augering a hole to the sample depths (12 and 24 inches below ground surface [bgs]). A total of six (6) sampling locations (S.01 through S.06) were selected and soil samples were collected at 12 and 24 inches bgs at locations S.01 through S.05, and at 12 inches bgs at location S.06. Initial scraping away of the gravel top cover at the Site revealed soil that appeared to be impacted with PHC's. Notable "green" stained coarse-grained (coarse sand) soil appeared prominent from ground surface to approximately 6 inched bgs. This soil was underlain by a moderately plastic fine-grained soil (silt/clay). Visual impacts to this fine-grained soil appeared to extend to at least 1 foot bgs. A "brown" fine-grained (silt/clay) soil was noted toward the base of each borehole. A total of eleven (11) soil samples were collected and analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-G), diesel (TPH-D), and motor oil (TPH-MO) by US EPA Method 8015B, Petroleum Oil & Grease (POG) by US EPA Method SM5520E/F, Volatile Organic Compounds (VOC's) by US EPA Method 8260B; Semi-Volatile Organic Compounds (SVOC's) by US EPA Method 8270C, PCB's by US EPA Method 8082, and LUFT 5 Metals by US EPA Method SW6010B. Soil samples collected for chemical characterization were transported to McCampbell Analytical, Inc., a State-certified analytical laboratory (ELAP #1644) of Pittsburg, California.

July 29, 2011 Quest prepared the report *Soil Sampling and Analysis Report* for Byron Power summarizing the results of the limited soil investigation. Based on a review of the analytical data, PHC impacts to soil appeared limited to within 2 feet of the surface in the areas of surficial staining. Excavation and off-site disposal of the upper 2 feet of this soil to an appropriate landfill was recommended as the most feasible remedial method at the Site. Following excavation of the soils it was proposed that an appropriate number of confirmation soil samples should be collected and chemically analyzed to confirm the removal of impacted soils.

On February 23, 2012, ACEH requested the submission of a workplan to evaluate potential soil and groundwater impacts at the Site.

On April 10, 2012, Quest submitted a report titled *Site Assessment Work Plan*, which proposed a subsurface investigation to assess the vertical and lateral extent of soil impacts at the site. The Workplan was subsequently approved by the ACEH in a letter dated May 1, 2012.

On July 2, 2102, Quest conducted subsurface investigation at the Site. The investigation consisted of the completion of six (6) direct push soil borings (SP.01 through SP.06) from which sixteen (16) soil samples and two (2) groundwater samples (SP.01W and SP.03W) were collected and analyzed for key chemical constituents of concern. Soil samples collected from soil probes SP.01 through SP.05 were found to exceed the environmental screening level (ESL) for Phenol for soil above groundwater, which is a current or potential source of drinking water for residential or commercial/industrial land use. However, no soil samples were found to exceed the ESL for groundwater that is not considered or is a potential source of drinking water for residential land use. Groundwater samples from soil probe SP.01 were found to exceed the ESL's for TPH-D, TPHMO, and TBA for groundwater, which is a current or potential source of drinking water for residential or commercial/industrial land uses. No groundwater was encountered during a subsequent resample attempt adjacent to soil probe SP.01 (SP.07) completed on July 2, 2102. On August 6, 2012, Quest submitted a Report summarizing the findings of the investigation at the Site and made recommendations for interim remedial measures.

On September 4, 2012, ACEH responded to the Quest's report submittal July 6, 2012. ACEH requested the submission of a workplan to further evaluate potential soil and groundwater impacts at the Site, and sample sediment and scale noted in and adjacent to the onsite surface impoundment.

On October 26, 2012, Quest submitted a report titled *Workplan For Additional Site Assessment Work Plan*, which proposed to install four (4) groundwater monitoring wells, collect representative soil and groundwater samples from the wells, and collect soil/sludge and scale samples at the site. The workplan was subsequently approved by the ACEH in a letter dated November 20, 2012.

On January 23, 2013, Quest submitted a report titled *Workplan Addenda*, which proposed to complete fourteen (14) soil probes, and collect representative soil samples from the beneath the building foundation at the site. The workplan was subsequently approved by the ACEH in an email dated January 24, 2013.

1.3 GEOLOGIC AND HYDROLOGIC CHARACTERISTICS

1.3.1 Regional and Local Physiographic Setting

The Site lies within the Coast Ranges Geomorphic Province, which extends approximately 550 miles in a northwest to southeast direction along the coast of California. The Coast Ranges comprises a series of northwest to southeast-trending ridges and narrow valleys, whose orientations are controlled by the fault-dominated geologic structure of the region.

1.3.2 Surface Topographic and Hydrology

Regionally, the general topographic slope of the area is to the north-northeast, ranging from approximately 261 feet above msl in the south to approximately 61 feet above msl to the north of the Site. In the vicinity of the Site, the topography appears relatively level with an elevation of approximately 104 feet above msl (USGS, 1978; EDR, 2008(a)). Surface topography in the

vicinity of the Site slopes moderately downward to the north and increases gently to the west. Nearby surface waters include Bethany Reservoir located approximately 0.90 miles southwest of the Site, the California Aqueduct located approximately 1.20 miles west of the Site and the Delta Mendota Canal located approximately 0.70 miles east of the Site. The Site is not identified as being located within the 100-year zone or 500-year zone, as defined by the Federal Emergency Management Agency (FEMA).

1.3.3 Geologic Review

The Site is underlain by soil referred to as the San Ysidro Series loam. The local vicinity surrounding the site is underlain by Altamont Series clay to the south and east, Linne Series clay loam to the northwest and southwest, and Rincon Series clay loam to the southwest, and San Ysidro loam to the north. The State Soil Geogrpahic Database (STATSGO) describes San Ysidro Series loam as moderately well drained soil with high corrosion potential. According to STATSGO database, the hydrologic group is categorized as Class D which are described as clayey, and having a high water or shallow to an impervious layer. In profile, the soil layers include loam from the ground surface to 16 inches below ground surface (bgs). The subsoil is clay from 16 to 33 inches bgs and silty clay loam from 33 inches to 59 inches. Permeability of the subsoil is very slow.

1.3.4 Hydrogeologic Review

The regional groundwater gradient is unknown. Information on the groundwater in the immediate vicinity of the Site is also not readily available. Review of State records (GeoTracker) did not indicate any groundwater monitoring wells near the Site, which could be used to determine groundwater elevation. However, Quest reviewed boring logs dated May 23, 2006 for the Chevron Holey-Byron Road facility located approximately 2.7 miles north of the Site. According to the boring logs, depth to groundwater ranged from 2 ft to 5 ft bgs.

2 INVESTIGATION SUMMARY

The following sections summarize activities conducted at the Site. The work scope included a field investigation, analytical program, and the preparation of this report of findings. The following sections summarize the investigation completed at the Site.

2.1 FIELD INVESTIGATION

The field investigation consisted of four (4) phases of field investigation, 1) Surface Impoundment and Scale Deposit Sampling, 2) Groundwater Monitoring Well Installations, 3) Groundwater Monitoring and Sampling, and 4) Additional Soil Probe Operations.

2.1.1 Surface Impoundment and Scale Deposit Sampling

On December 7, 2012, a Quest geologist collected discrete sludge and scale deposit samples at the Site (Figure 2). The two (2) discrete sludge samples (SI.01 & SI.02) were collected by driving a clean 6-inch stainless-steel sleeve into the sediment to retain a discrete sample from each sample location. One (1) scale sample (SCALE) was collected by hand digging a hole in the stockpile surface to the sample depth (6 inches below the surface). Then a clean 6-inch stainless-steel tube was driven into the stockpile to retain a discrete sample.

Once each sample was collected, each sleeve was sealed with tight-fitting plastic caps, labeled, placed in a chilled ice chest, and preserved for transport under chain-of-custody documentation to McCampbell Analytical, Inc. (MAI), a State-certified analytical laboratory of Pittsburg, California for chemical analysis. Section 2.2 summarizes the chemical analysis completed on the samples collected.

2.1.2 Groundwater Monitoring Well Installations

On December 18, 19, and 21 2012, a Quest geologist supervised Woodward Drilling (Woodward), a State-licensed C-57 Well Driller (#695970), of Rio Vista, California, in the installation of four (4) groundwater monitoring wells using an HK-81 and Mobile B-53 hollow-stem auger rigs (Figure 3). Soil borings for monitoring wells MW.01 through MW.04 were advanced to 27.0, 27.5, 26.0, and 31.0 feet bgs, respectively. Quest's geologist examined soil cuttings and discrete soil samples produced during drilling operations to prepare lithologic log of monitoring wells MW.01 through MW.04 (Appendix B). The boring logs also include well construction details for monitoring wells MW.01 through MW.04.

Soil Sampling Activities

Soil samples collected from each of the soil borings were field screened, observing the soil for lithologic data, odor, and unusual stains. A headspace analysis was conducted using a photo-ionization detector (PID) to detect the presence of volatile organic compounds (VOC's). Soil samples collected from monitoring wells MW.01, MW.03, and MW.04 were collected at approximately 4, and 8 feet bgs. The soil sample collected from monitoring well MW.02 was collected at approximately 8 feet bgs. A total of seven (7) soil samples were collected from monitoring wells MW.01 through MW.04. The soil samples were then appropriately labeled, placed in an ice chest, and preserved for transport under chain-of-custody documentation to

MAI for chemical analysis. Section 2.2 summarizes the chemical analysis completed on the samples.

Monitoring Well Development

On December 21, 2012, Quest personnel completed well development of monitoring wells MW.01 through MW.04. Well development consisted of using a surge block to surge/flush the well screens. Subsequent to the use of the surge block a peristaltic pump with clean, dedicated poly tubing was used to evacuate the sediment laden groundwater from the well until the purged water was clear of sediments and water quality parameters stabilized. The purged water was appropriately containerized onsite consistent with Section 2.1.5

Groundwater Monitoring Well Elevation Survey

On December 31, 2012, Benchmark Consultants (Benchmark), a State-licensed Land Surveyor of Antioch, California, conducted an elevation survey of the groundwater monitoring wells and prominent site features. Benchmark subsequently provided requisite GEO X and GEO YZ data files for submission into the State of California GeoTracker database. Copies of the data submissions are included in Appendix A.

2.1.3 Groundwater Monitoring and Sampling

On December 28, 2012, the depth to groundwater and the total depth of each well were measured using an electronic well sounder. The well sounder was cleaned with a non-phosphatic cleaning solution and water, and then was double rinsed with tap water prior to gauging and purging each well. A summary of these measurements is presented in Table 1.

On December 28, 2012, subsequent to groundwater elevation measurements, monitoring wells MW.01 through MW.04 were purged using dedicated ¼" polyethylene tubing and a peristaltic pump. During purging, the temperature, pH, specific conductance (EC), Dissolved Oxygen (DO), and Oxygen Reduction Potential (ORP) were measured and recorded. Copies of the field data sheets are included in Appendix C.

The groundwater samples collected were then decanted into sampling containers appropriate to each analytical method being employed. The sample containers were then appropriately labeled, placed in an ice chest, and preserved for transport under chain-of-custody documentation to MAI for chemical analysis. Section 2.2 summarizes the chemical analysis completed on the samples collected.

2.1.4 Additional Soil Probe Operations

On January 30 and 31, 2013, a Quest geologist supervised Woodward in pushing soil probes SP-8 through SP-21, using a truck-mounted AMS direct-push dual-tube probe (Figure 4). Soil probe locations SP-8 through SP-21 were advanced to between 12 and 16 feet bgs. Quest's geologist examined soil cuttings and discrete soil samples produced during drilling operations to prepare lithologic logs of soil probes SP-8 through SP-21 (Appendix B). Groundwater was not encountered during this portion of the field operations at the Site.

Soil Sampling Activities

Soil samples collected from each of the soil probes were field screened, observing the soil for lithologic data, odor, and unusual stains. A headspace analysis was conducted using a PID to detect the presence of VOC's. Soil probes SP-8 through SP-21 were continuously cored to each location's termination depth. Soil samples collected from soil probes SP-8 through SP-21 were collected at approximately 2 feet bgs. Additional soil samples were collected from soil probes SP-12, SP-15, and SP-19 at approximately 1, 6, and 1 foot bgs, respectively. A total of seventeen (17) soil samples were collected from soil probes SP-8 through SP-21. The soil samples from each soil probe were then appropriately labeled, placed in an ice chest, and preserved for transport under chain-of-custody documentation to MAI for chemical analysis. Section 2.2 summarizes the chemical analysis completed on the samples collected.

Soil Probe Backfill

Upon completion of the soil probe, the tool strings were removed from the boreholes and the bore hole grouted by tremmie pipe, from the base of the borehole to the surface. The grout consisted of Portland cement.

2.1.5 Investigation Derived Wastes (IDW)

Investigation derived wastes (IDW) were generated during the Site investigation activities. Soil spoils generated at the Site were containerized onsite in DOT-approved 55-gallon drums. Equipment decontamination rinseate, well development and sampling purgewater were containerized onsite in DOT-approved 55-gallon drums. The drums were appropriately labeled and segregated to a secure location at the Site. The drums will be profiled using the Site analytical data and disposed/recycled at an appropriate facility.

2.2 ANALYTICAL TESTING PROGRAM

Soil and groundwater samples were collected and preserved in the field for transport to an analytical laboratory. The sample containers were labeled, stored at a temperature of less than 4 degrees centigrade (<4^{o}C), and transported along with appropriate chain-of-custody documentation to MAI for chemical analysis. Sludge and scale sample analytical results are included in Tables 2, 3, and 4 and on the certified analytical reports in Appendix D. Soil sample analytical results are included in Table 4 and on the certified analytical reports in Appendix D. Groundwater sample analytical results are included in Tables 5 and 6, and on the certified analytical reports in Appendix D.

2.2.1 Sample Analysis Protocols

The surface impoundment sludge samples were analyzed for:

- Total Petroleum Hydrocarbons as Diesel (TPH-D), and as Motor Oil (TPH-MO), and as Gasoline (TPH-G) using U.S. EPA Method 8015M;
- VOC's using U.S. EPA Method 8260;
- Semi-Volatile Organic Compounds (SVOC's) using U.S. EPA Method 8270;
- CAM-17 Metals using US EPA Method SW6020; and
- Percent Moisture using ASTM Method D2216-92.

The stockpiled scale deposit samples were analyzed for:

- TPH-D, TPH-MO, TPH-G using U.S. EPA Method 8015M;
- VOC's using U.S. EPA Method 8260;
- SVOC's using U.S. EPA Method 8270;
- CAM-17 Metals using US EPA Method SW6020;
- Reactivity, Corrosivity, and Ignitability (RCI) using US EPA Methods SW-846, 9040, and 1010; and
- Asbestos using US EPA Method 600/R-93-116.

The soil samples collected from soil probes SP-8 through SP-21 were analyzed for:

- TPH-D, TPH-MO, TPH-G using U.S. EPA Method 8015M;
- VOC's using U.S. EPA Method 8260; and
- SVOC's using U.S. EPA Method 8270.

The groundwater samples collected from monitoring wells MW.01 through MW.04 were analyzed for:

- TPH-D, TPH-MO, TPH-G using U.S. EPA Method 8015M;
- VOC's using U.S. EPA Method 8260;
- SVOC's using U.S. EPA Method 8270;
- Dissolved Oxygen (DO) by field meter;
- Oxygen Reduction Potential (ORP) by field meter;
- Temperature by field meter;
- Electrical Conductivity (EC) by field meter; and
- pH by field meter.

3 FINDINGS

3.1 SLUDGE AND SCALE SAMPLES

A total of two (2) sludge (SI.01 & SI.02) and one (1) scale stockpile (SCALE) sample were collected from the surface impoundment and scale deposit stockpile, and analyzed for key COC's. The analytical results of the samples submitted are summarized in Tables 2, 3, and 4, and on certified analytical reports in Appendix D. The following is a summary of COC's detected in the analyzed samples:

- TPH-G was detected in samples SI.01, SI.02, and SCALE at concentrations of 1.8 mg/Kg, 11 mg/Kg, and 0.26* mg/Kg, respectively (*flagged by laboratory as detected below quantitation limits);
- TPH-D was detected in samples SI.01, SI.02, and SCALE at concentrations of 72 mg/Kg, 430 mg/Kg, and 3.6 mg/Kg, respectively;
- TPH-MO was detected in samples SI.01, SI.02, and SCALE at concentrations of 160 mg/Kg, 660 mg/Kg, and 12 mg/Kg, respectively;
- Acetone was detected in sample SI.02 at a concentration of 0.15 mg/Kg;
- Methyl Ethyl Ketone (MEK) was detected in samples SI.01, and SI.02 at concentrations of 0.0076* mg/Kg, and 0.012* mg/Kg, respectively (*flagged by laboratory as detected below quantitation limits);
- Carbon Disulfide was detected in samples SI.01, and SI.02 at concentrations of 0.016 mg/Kg, and 0.019 mg/Kg, respectively;
- DIPE was detected in sample SI.02 at a concentration of 0.0028 mg/Kg;
- Ethyl-Benzene was detected in sample SI.02 at a concentration of 0.043 mg/Kg;
- Isopropyl Benzene was detected in sample SI.02 at a concentration of 0.011 mg/Kg;
- 4-Isopropyl Toluene was detected in sample SI.02 at a concentration of 0.0072* mg/Kg (*flagged by laboratory as detected below quantitation limits);
- Methylene Chloride was detected in sample SI.01 at a concentration of 0.0044* mg/Kg (*flagged by laboratory as detected below quantitation limits);
- Naphthalene was detected in samples SI.01, and SI.02 at concentrations of 0.0023* mg/Kg, and 0.16 mg/Kg, respectively (*flagged by laboratory as detected below quantitation limits);
- Toluene was detected in samples SI.01, and SI.02 at concentrations of 0.0058 mg/Kg, and 0.0059* mg/Kg, respectively (*flagged by laboratory as detected below quantitation limits);
- 1,2,4-Trimethyl-Benzene was detected in samples SI.01, and SI.02 at concentrations of 0.0035* mg/Kg, and 0.18 mg/Kg, respectively (*flagged by laboratory as detected below quantitation limits);
- 1,3,5-Trimethyl-Benzene was detected in sample SI.02 at a concentration of 0.089 mg/Kg;
- Total Xylenes was detected in sample SI.02 at a concentration of 0.48 mg/Kg;

- Antimony was detected in samples SI.01, SI.02, and SCALE at concentrations of 2.5 mg/Kg, 1.5 mg/Kg, and 1.2 mg/Kg, respectively;
- Arsenic was detected in samples SI.01, SI.02, and SCALE at concentrations of 1.2 mg/Kg, 1.8 mg/Kg, and 0.97 mg/Kg, respectively;
- Barium was detected in samples SI.01, SI.02, and SCALE at concentrations of 65 mg/Kg, 110 mg/Kg, and 150 mg/Kg, respectively;
- Cadmium was detected in samples SI.01, and SI.02 at concentrations of 0.24 mg/Kg, 0.21 mg/Kg, and 0.26 mg/Kg, respectively;
- Chromium was detected in samples SI.01, SI.02, and SCALE at concentrations of 5.6 mg/Kg, 8.5 mg/Kg, and 3.5 mg/Kg, respectively;
- Cobalt was detected in samples SI.01, SI.02, and SCALE at concentrations of 0.67 mg/Kg, 0.90 mg/Kg, and 0.83 mg/Kg, respectively;
- Copper was detected in samples SI.01, SI.02, and SCALE at concentrations of 58 mg/Kg, 44 mg/Kg, and 65 mg/Kg, respectively;
- Lead was detected in samples SI.01, SI.02, and SCALE at concentrations of 19 mg/Kg, 31 mg/Kg, and 21 mg/Kg, respectively;
- Mercury was detected in samples SI.01, SI.02, and SCALE at concentrations of 0.031 mg/Kg, 0.040 mg/Kg, and 0.036 mg/Kg, respectively;
- Molybdenum was detected in samples SI.01, SI.02, and SCALE at concentrations of 140 mg/Kg, 87 mg/Kg, and 6.6 mg/Kg, respectively;
- Nickel was detected in samples SI.01, SI.02, and SCALE at concentrations of 2.6 mg/Kg, 2.5 mg/Kg, and 3.0 mg/Kg, respectively;
- Selenium was detected in sample SI.01 at a concentrations of 0.23 mg/Kg;
- Vanadium was detected in samples SI.01, SI.02, and SCALE at concentrations of 2.0 mg/Kg, 1.8 mg/Kg, and 0.79 mg/Kg, respectively;
- Zinc was detected in samples SI.01, SI.02, and SCALE at concentrations of 180 mg/Kg, and 390 mg/Kg, and 190 mg/Kg, respectively; and
- No other key COC's were identified at or above their respective detection limit.

3.2 SOIL CONDITIONS

3.2.1 Subsurface Conditions

The subsurface conditions of the Site consisted primarily of sandy silts, sandy clays, silty sands, well-graded gravel with sand, gravels, volcanic ash, and welded tuff. Copies of the soil boring logs can be found in Appendix A.

3.2.2 Soil Sample Analytical Results

Seventeen (17) soil samples were collected from soil probes SP-8 through SP-21 and subsequently analyzed for key COC's. The analytical results of the soil samples submitted are summarized in Table 4, and on certified analytical reports in Appendix D. The following is a summary of COC's detected in soil samples:

- TPH-D was detected in twenty-one (21) soil samples at concentrations ranging from 1.0 mg/Kg (SP-16-2) to 140 mg/Kg (SP-08-2); and

- TPH-MO was detected in thirteen (13) soil samples at concentrations ranging from 6.0 mg/Kg (SP-13-2) to 2,300 mg/Kg (SP-19-1);
- Acetone was detected in two (2) soil samples at concentrations ranging from 0.079 mg/Kg (SP-17-2) to 0.094 mg/Kg (SP-19-1); and
- No other key COC's were identified at or above their respective detection limit.

3.3 GROUNDWATER CONDITIONS

3.3.1 Hydrogeology

On December 28, 2012, the depth to groundwater was measured in groundwater monitoring wells MW.01 through MW.04. Groundwater elevation beneath the site ranged from 86.47 feet to 89.33 feet AMSL, with an average elevation of 87.82 feet AMSL. Groundwater elevation data are summarized in Table 1.

Groundwater flow beneath the Site appears to be northeast (N65ºE) at an approximate groundwater gradient of 0.0238. Copies of the field data sheets are included in Appendix C, and groundwater elevation contours and the direction of groundwater flow are shown on Figure 5.

3.3.2 Groundwater Sample Analytical Results

Groundwater samples collected from groundwater monitoring wells MW.01 through MW.04 were analyzed for TPH-G, TPH-D, TPH-MO, VOC's, and SVOC's. Groundwater sample analytical results are included in Tables 5 and 6, on the field collection data sheets in Appendix C, and on the certified analytical reports in Appendix D. The following is a summary of key hydrocarbon compounds detected in groundwater samples:

- TPH-G was detected in groundwater sample MW.03 at a concentration of 51 µg/L;
- TPH-D was detected in groundwater samples MW.01 through MW.04 at concentrations of 27* µg/L, 41* µg/L, 120 µg/L, and 56 µg/L, respectively (*flagged by laboratory as detected below quantitation limits);
- Benzene was detected in groundwater sample MW.03 at a concentration of 0.85 µg/L;
- Isopropyl Benzene was detected in groundwater sample MW.03 at a concentration of 6.8 µg/L;
- MIBK was detected in groundwater sample MW.03 at a concentration of 0.65 µg/L;
- Naphthalene (8260) was detected in groundwater sample MW.03 at a concentration of 1.4 µg/L;
- Total Xylenes was detected in groundwater sample MW.03 at a concentration of 0.72 µg/L;
- Benzoic Acid was detected in groundwater samples MW.01 and MW.04 at concentrations of 5.9 µg/L, and 6.3 µg/L, respectively;
- Naphthalene (8270) was detected in groundwater sample MW.03 at a concentration of 1.4 µg/L;
- pH was analyzed and found to range from 6.53 (MW.03) to 7.83 (MW.01);

- Electrical conductivity (EC) was analyzed and found to range from 3,301 µS/cm (MW.01) to 5,780 µS/cm (MW.02); and
- No other key COC's were identified at or above their respective detection limit.

4 EVALUATION

Based on the review of the subsurface data, hydrogeologic data, and analytical results of this investigation, petroleum hydrocarbon impacted soil and surficial water was identified at the Site. The following sections evaluate the collected data, and compare the findings with current State and Federal guidelines for subsurface soils and groundwater.

4.1 REGULATORY EVALUATION

Hazardous Waste Designation

In California hazardous wastes are regulated by California Health and Safety Code (HSC), Division 20, Chapter 6.5, Hazardous Waste Control Law, and California Code of Regulations (CCR), Division 4.5, Title 22 CCR. In California, the classification of wastes and the establishment of cleanup levels for sites which have been contaminated with toxic chemicals are performed by two separate State agencies with separate regulatory authority. The State Water Resources Control Board/Regional Water Quality Control Boards classify wastes according to the risk of impairment to water quality. The DTSC classifies wastes based on a direct threat of these wastes or sites to public health.

California Regional Water Quality Control Board, Central Valley Region – Basin Plan

The Porter-Cologne Water Quality Control Act (Division 7 of the California Water Code) requires the preparation and adoption of water quality control plans (basin plans) [California Water Code, Section 13240] by the State's nine Regional Water Quality Control Boards for watersheds within their regions. According to Section 13050 of the California Water Code, basin plans consist of a designation or establishment for the waters within a specified area of beneficial uses to be protected, water quality objectives (WQO's) to protect those uses, and a program of implementation needed for achieving the objectives. The Central Valley Regional Water Quality Control Board (CVRWQCB) has established basin plan WQO's (CVRWQCB, 1998) for ground waters and states that they shall not contain chemical constituents in concentrations that adversely affect beneficial uses. At a minimum, ground waters designated for use as domestic or municipal supply (MUN) shall not contain concentrations of chemical constituents in excess of the maximum contaminant levels (MCLs) specified in the following provisions of Title 22 of the California Code of Regulations. MCL's are subdivided into Primary and Secondary MCL's which address human health, taste, odor, and appearance of drinking water. Primary MCL's, which address human health, are regulated under Title 22 CCR §64431-§64444. Secondary MCL's, which address the taste, odor, or appearance of drinking water, and are regulated under Title 22 CCR §64449.

California Regional Water Quality Control Board, San Francisco Bay Region - ESL's

In May 2008 the staff of the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) prepared a technical document entitled Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final – November 2007) [SFRWQCB, 2008]. This document establishes Environmental Screening Levels (ESL's) for chemicals commonly found in impacted soil and groundwater. The intent of the document is to help

expedite the preparation of environmental risk assessments at sites where impacted soil and groundwater have been identified as an alternative to preparing a formal risk assessment. In this process, soil and groundwater data collected at a site can be directly compared to the ESL's and the need for additional work evaluated. The SFRWQCB (SFRWQCB, 2008) issued tabulated ESL data for constituents of concern, which were subdivided into tables. In particular, the tables were organized to assess Land Use, Depth of Impacted Soil, and Groundwater Utility.

4.1.1 Sludge and Scale Evaluation

Analytical results indicated the presence of PHC's in samples collected during this investigation and submitted for chemical analysis. The following summarize analytical results as they relate to regulatory requirements/guidelines:

Hazardous Waste Classification

The following evaluations are reviewed against requirements of the Hazardous Waste Control Law and Title 22 for specific detected COC's:

- None (0) of the organic compounds detected were found to be listed within Title 22 §66261.24;
- Reactivity, Corrosivity, and Ignitability (RCI): Sample SCALE was not found to exceed RCI limits (Table 2); and
- CAM-17: No metal COC's were found to exceed the Soluble Threshold Limit Concentration (STLC) trigger value or the Total Threshold Limit Concentration (TTLC) limits for samples SI.01, SI.02, and SCALE (Table 3).

SFRWQCB ESL

Soil depths encountered at the Site were found to be less than 3 meters (9.8 feet) bgs. Tables A and B of SFRWQCB (2008) were used for the evaluation of PHC's in soil at the Site. Table 4 presents the sludge, scale, and soil sample analytical results along with respective analyte ESL's. The following summarize the evaluations ESL's for specific detected COC's:

- TPH-G was detected in three (3) samples (SI.01, SI.02, & SCALE). No (0) samples were found to exceed the ESL's for TPH-G;
- TPH-D was detected in three (3) samples (SI.01, SI.02, & SCALE). One (1) sample was found to exceed the ESL for water that is considered or is a potential source of drinking water for residential or commercial/industrial land uses (83 mg/Kg). No (0) samples were found to exceed the ESL for water that is not considered or is a potential source of drinking water for residential (100 mg/Kg) or commercial/industrial land uses (180 mg/Kg);
- TPH-MO D was detected in three (3) samples (SI.01, SI.02, & SCALE). One (1) sample was found to exceed the ESL's for water that is for residential uses (370 mg/Kg). No (0) samples were found to exceed the ESL's for water that is for commercial/industrial land uses (2,500 mg/Kg);
- Acetone was detected in one (1) sample (SI.02). No (0) samples were found to exceed the ESL's for acetone;

- Methyl Ethyl Ketone (MEK) was detected in two (2) samples (SI.01 & SI.02). No (0) samples were found to exceed the ESL's for MEK;
- Carbon Disulfide was detected in two (2) samples (SI.01 & SI.02). There is no established ESL;
- DIPE was detected in one (1) sample (SI.02). There is no established ESL;
- Ethyl-Benzene was detected in one (1) sample (SI.02). No (0) samples were found to exceed the ESL's for Ethyl-Benzene;
- Isopropyl Benzene was detected in one (1) sample (SI.02). There is no established ESL;
- 4-Isopropyl Toluene was detected in one (1) sample (SI.02). There is no established ESL;
- Methylene Chloride was detected in one (1) sample (SI.01). There is no established ESL;
- Naphthalene was detected in two (2) samples (SI.01 & SI.02). No (0) samples were found to exceed the ESL's for Naphthalene;
- Toluene was detected in two (2) samples (SI.01 & SI.02). No (0) samples were found to exceed the ESL's for Toluene;
- 1,2,4-Trimethyl-Benzene was detected in two (2) samples (SI.01 & SI.02). There is no established ESL;
- 1,3,5-Trimethyl-Benzene was detected in one (1) sample (SI.02). There is no established ESL;
- Total Xylenes was detected in one (1) sample (SI.02). No (0) samples were found to exceed the ESL's for Total Xylenes;
- Arsenic was detected in three (3) samples (SI.01, SI.02, & SCALE). Three (3) samples were found to exceed the ESL's for water that is for residential uses (0.39 mg/Kg). One (1) sample was found to exceed the ESL's for water that is for commercial/industrial land uses (1.6 mg/Kg);
- Molybdenum was detected in three (3) samples (SI.01, SI.02, & SCALE). Two (2) samples were found to exceed the ESL's for water that is for residential or commercial/industrial land uses (40 mg/Kg); and
- No other key COC's were identified as exceeding their respective ESL.

Discussion

The sludge and scale deposits are contained within the lined containment structures at the Site. The deposits represented by samples SI.01, SI.02, and SCALE are not classified as hazardous wastes by designation or classification under Division 20, Chapter 6.5 (Hazardous Waste Control Law), or Title 22 CCR Division 4.5. Sample SI.02 was found to exceed the ESL's for TPH-D and TPH-MO for residential land uses. The ESL for Arsenic is relatively low in comparison to noted regional background for arsenic in northern California [11 mg/Kg (Duvergé, 2011), 20 mg/Kg (Scott, 1991), and 42 mg/Kg (LBNL, 2009). Since the deposits are currently contained, ESL's are not pertinent to their current disposition. However, the ESL's would be pertinent if the deposits were to be removed from the containment structures and deposited to open ground at the Site.

4.1.2 Subsurface Soil Guideline Evaluation

Analytical results indicated the presence of PHC's in soil samples collected during this investigation and submitted for chemical analysis. The following summarize analytical results as they relate to regulatory requirements/guidelines:

SFRWQCB ESL

Soil depths encountered at the Site were found to be less than 3 meters (9.8 feet) bgs. Tables A and B of SFRWQCB (2008) were used for the evaluation of PHC's in soil at the Site. The following evaluations are reviewed against Residential ESL's for specific detected COC's:

- TPH-D was detected in twenty-one (21) soil samples. Three (3) soil samples were found to exceed the ESL for water that is considered or is a potential source of drinking water (83 mg/Kg) for residential or commercial/industrial land uses, and the ESL for water that is not considered or is a potential source of drinking water (100 mg/Kg) for residential uses. No (0) soil samples were found to exceed the ESL for water that is not considered or is a potential source of drinking water (180 mg/Kg) for commercial/industrial land uses;
- TPH-MO was detected in thirteen (13) soil samples. Three (3) soil samples were found to exceed the ESL for residential land uses (370 mg/Kg). No (0) soil samples were found to exceed the ESL for water that is not considered or is a potential source of drinking water (2,500 mg/Kg) for commercial/industrial land uses;
- Acetone was detected in two (2) soil samples. No (0) soil samples were found to exceed the ESL for water that is considered or is a potential source of drinking water for residential or commercial/industrial land uses (0.5 mg/Kg) or the ESL for water that is not considered or is a potential source of drinking water (0.5 mg/Kg) for residential or commercial/industrial land uses;
- Phenol was not detected in the soil samples submitted for chemical analysis. It should be noted that the Reporting Limit (RL = 0.25 mg/Kg) and Method Detection Limit (MDL = 0.12 mg/Kg) for the analytical method is higher than the ESL for water that is considered or is a potential source of drinking water for residential or commercial/industrial land uses (0.076 mg/Kg); and
- No other key COC's were identified as exceeding their respective ESL.

Discussion

Based on the evaluation above, TPH-D and TPH-MO were the only analytes found to exceed the residential land use ESL's, and TPH-D was the only analyte found to exceed the commercial/industrial land use ESL for water that is considered or is a potential source of drinking water. SFRWQCB (2008) recommends that when evaluating TPH analytical results to ESL's, they should be evaluated in terms of both TPH and well characterized indicator chemicals (e.g., benzene, toluene, ethylbenzene, xylenes and targeted PAHs). No other indicator chemical analytes (VOC's or SVOC's) were identified with corresponding TPH results.

It should be noted that various SVOC analytes have ESL's that are lower than the MDL for those analytes. Further evaluation of these analytes is limited by the detection limit of the

analytical method. For the purposes of this evaluation it was noted that the dilution factor (DF) for all soil samples analyzed was low. Therefore, these analytes should be evaluated based on confirmed positive results above the respective MDL.

4.1.3 Groundwater Guideline Evaluation

Analytical results indicated the presence of PHC's in groundwater samples collected during this investigation. The following summarize analytical results as they relate to regulatory requirements/guidelines:

CVRWQCB – Basin Plan WQO's

Current Basin Plan WQO's were used for the evaluation of COC's in groundwater samples collected at the Site. The following evaluations are based on the specific detected COC's:

- TPH-G: Groundwater sample MW.03 (51 µg/L) was found to exceed the taste and odor threshold of 5.0 µg/L;
- TPH-D: Groundwater sample MW.03 (120 µg/L) was found to exceed the taste and odor threshold of 100 µg/L;
- Benzene: No (0) groundwater sample collected and analyzed were found to exceed the Basin Plan WQO of 1.0 µg/L;
- Isopropyl benzene: No listed Primary or Secondary MCL's;
- 4-Methyl-2-pentanone (MIBK): No listed Primary or Secondary MCL's;
- Naphthalene: No listed Primary or Secondary MCL's;
- Benzoic Acid: No listed Primary or Secondary MCL's;
- pH: Groundwater samples MW.01 through MW.04 were found to be within the Basin Plan WQO;
- EC: Groundwater samples MW.01 through MW.04 were found to be exceed the Basin Plan WQO of 900 µS/cm; and
- No other key COC's were identified as exceeding their respective WQO's.

SFRWQCB – ESL

Soil depths encountered at the Site were found to be less than 3 meters (9.8 feet) bgs. Tables F-1a and F-1b of SFRWQCB (2008) were used for the evaluation of PHC's in groundwater at the Site. The following evaluations are based on the specific detected COC's:

- TPH-D: Groundwater sample MW.03 (120 µg/L) was found to exceed the ESL for residential land uses (100 µg/L). No (0) groundwater samples were found to exceed the ESL for commercial/industrial land uses (210 µg/L);
- Benzene: No (0) groundwater samples were found to exceed the ESL for water that is considered or is a potential source of drinking water (1.0 µg/L) for residential or commercial/industrial land uses;
- Isopropyl benzene: No listed ESL;
- MIBK: No (0) groundwater samples were found to exceed the ESL for water that is considered or is a potential source of drinking water for residential (120 µg/L) or commercial/industrial land uses (170 µg/L);

- Naphthalene: No (0) groundwater samples were found to exceed the ESL for water that is considered or is a potential source of drinking water for residential (17 µg/L) or commercial/industrial land uses (24 µg/L);
- Total Xylenes: No (0) groundwater samples were found to exceed the ESL for water that is considered or is a potential source of drinking water for residential (20 µg/L) or commercial/industrial land uses (100 µg/L);
- Benzoic Acid: No listed ESL; and
- No other key COC's were identified as exceeding their respective ESL.

Discussion

Based on the evaluation above, only one (1) monitoring well (MW.03) was found to exceed the TPH-D ESL's for residential land use and the WQO's for TPH-g and TPH-D. Analysis of groundwater in the field identified that EC in monitoring wells MW.01 through MW.04 exceeded the respective WQO. SFRWQCB (2008) recommends that when evaluating TPH analytical results to ESL's, they should be evaluated in terms of both TPH and well characterized indicator chemicals (e.g., benzene, toluene, ethylbenzene, xylenes and targeted PAHs). No other indicator chemical analytes (VOC's or SVOC's) were identified with corresponding TPH results. The locally occurring groundwater indicated EC ranging from 3,301 to 5,780 µS/cm, which are substantially in excess of the Basin Plan limit of 900 µS/cm.

5 CONCLUSIONS

5.1 SLUDGE AND SCALE EVALUATION

By definition, the sludge and scale deposits represented by sludge samples SI.01 and SI.02, and scale sample SCALE, respectively, are not considered a hazardous waste. The waste materials are contained by an impervious liner. Future release of these deposits, or placement on open ground could pose some groundwater risk. Consideration might be given in the future to removal of the surface impoundment and scale deposits, and their appropriate disposition.

5.2 SITE SUBSURFACE EVALUATION

The Site and surrounding area are currently zoned Large Parcel Agriculture (Alameda County, 2000), which limits the use and size of the adjacent parcels. Based on the current zoning requirements, existing Site and adjacent property use, and the rural nature of the area, residential uses are limited. Therefore, review of the Site and local groundwater utility should be considered for agricultural and commercial/Industrial land uses. The following provide Quest conclusions based on soil and groundwater conditions at the Site:

5.2.1 Soil Conditions at the Site

TPH-D was the only analyte found to exceed the commercial/industrial land use ESL for water that is considered or is a potential source of drinking water. No other indicator chemical analytes (VOC's or SVOC's) were identified with corresponding TPH-D results. The results were for three (3) out of twenty-four (24) samples collected during this investigation. These three (3) samples are located beneath the building foundation and the soils they represent are therefore relatively immobile. The noted soil impacts are within 2 feet of the surface and are limited laterally to beneath the building slab. Based on the current use of the facility and surrounding properties, and the shallow, limited lateral extent, and immobile nature of the soil impacts noted, the Site should be considered low risk and No Further Action should be considered.

5.2.2 Groundwater Conditions at the Site

No (0) analytical samples were found to exceed the respective ESL's for commercial/industrial land uses. One (1) monitoring well (MW.03) was found to exceed the WQO's for TPH-G and TPH-D. Benzene was identified in monitoring well MW.03 below the respective ESL's and WQO. No other indicator chemical analytes (VOC's or SVOC's) were identified with corresponding TPH results. Groundwater in the area of the Site was found to exceed the respective WQO for EC.

The naturally occurring groundwater at the Site appears to be of poor quality. The EC measurements from monitoring wells MW.01 through MW.04 indicate very high EC that is four to six times the Basin Plan WQO. Based on the current use of the facility and surrounding properties, and the limited, low concentrations of COC impacts noted, the Site should be considered low risk and a No Further Action Letter issued.

6 RECOMMENDATIONS

Based on the findings and conclusions of this report it is recommended that the following should be conducted for this Site:

- Based on the limited extent of soil and groundwater impacts and the poor quality of the locally occurring groundwater, No Further Action (NFA) should be considered for the Site; and
- A copy of this report should be forwarded to ACEH for their review and action.

7 REFERENCES

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TABLES

TABLE 1 – Summary of Groundwater Elevation Data

Monitoring Well	MW.01		MW.02		MW.03		MW.04	
Well Head Elevation (Feet)*	110.83		107.03		106.92		104.02	
Date								
12/28/2012	21.50	89.33	18.27	88.76	20.19	86.73	17.55	86.47

Notes:
bgs = Below Ground Surface
***** = Site elevation datum established December 2012 by Benchmark Consultants.
--- = Not measured, unable to measure

TABLE 2 – Summary of Sludge & Scale Sample Analytical Results, U.S. EPA Methods SW-846, 9040, 1010, 600/R-93-116, & ASTM D2216-92

SAMPLE ID	DATE SAMPLED	ANALYSIS					
		RCI					
		Reactivity		Corrosivity	Ignitability	% Moisture	Asbestos
		Sulfide	Cyanide				
SI.01	12/07/12	---	---	---	---	67.4	---
SI.02	12/07/12	---	---	---	---	58.5	---
SCALE	12/07/12	Negative	Negative	8.90	Negative	---	ND
Hazardous Waste Classification by Characteristics - 22 CCR §66261				≤2 or ≥12.5			

NOTES:
--- = **Not Analyzed**

TABLE 3 – Summary of Sludge & Scale Sample Analytical Results, U.S. EPA Method SW6020

ANALYTE	SAMPLE ID			STLC Trigger (mg/kg)	STLC Limit (mg/L)	TCLP Trigger (mg/kg)	TCLP Limit (mg/L)	TTLC Limit (mg/kg)	R2 ESL (mg/kg)	Regional Background* (mg/kg)
	SI.01	SI.02	SCALE							
	12/07/12	12/07/12	12/07/12							
Antinomy	**2.5**	**1.5**	**1.2**	150	15	300	15	500	6.3	22
Arsenic	**1.2**	**1.8**	**0.97**	50	5.0	100	5.0	500	**0.39**	20
Barium	**65**	**110**	**150**	1,000	100	2,000	100	10,000	750	410
Beryllium	ND<0.19	ND<0.19	ND<0.19	7.5	0.75	15	0.75	75	4.0	3.2
Cadmium	**0.24**	**0.21**	ND<0.16	10	1.0	20	1.0	100	1.7	14
Chromium	**5.6**	**8.5**	**3.5**	50	5.0	100	5.0	500	1,000	170
Cobalt	**0.67**	**0.90**	**0.83**	800	80	1,600	80	8,000	40	25
Copper	**58**	**44**	**65**	250	25	500	25	2,500	230	67
Lead	**19**	**31**	**21**	50	5.0	100	5.0	1,000	200	54
Mercury	**0.031**	**0.040**	**0.036**	2.0	0.2	4	0.2	20	1.3	1.3
Molybdenum	**140**	**87**	**6.6**	3,500	350	7,000	350	3,500	**40**	**4.8**
Nickel	**2.6**	**2.5**	**3.0**	200	20	400	20	2,000	150	145
Selenium	**0.23**	ND<0.22	ND<0.22	10	1.0	20	1.0	100	10	4.9
Silver	ND<0.13	ND<0.13	ND<0.13	50	5.0	100	5.0	500	20	4.8
Thallium	ND<0.14	ND<0.14	ND<0.14	70	7.0	140	7.0	700	1.3	3.8
Vanadium	**2.0**	**1.8**	**0.79**	240	24	480	24	2,400	16	90
Zinc	**180**	**390**	**190**	2,500	250	5,000	250	5,000	600	120

NOTES:
mg/kg = Milligram per Kilogram
mg/L = Milligram per Liter
***** = Background Metals Concentrations in Soil in Northern Santa Clara County (Scott, 1995).
R2 ESL = San Francisco Bay Regional Water Quality Control Board (RWQCB, 2008), Environmental Screening Levels; Residential Land Use, Shallow Soil, Drinking Water Resource

TABLE 4 – Summary of Sludge, Scale, & Soil Sample Analytical Results, U.S. EPA Methods 8015B, 8260B, and 8270B

SAMPLE ID	DATE SAMPLED	SAMPLE INTERVAL (feet BSG)	ANALYTES								
			8015C			8260B					
			TPH-G (mg/kg)	TPH-D (mg/kg)	TPH-MO (mg/kg)	Acetone (mg/kg)	TAME (mg/kg)	Benzene (mg/kg)	MEK (mg/kg)	TBA (mg/kg)	Carbon Disulfide (mg/kg)
MW.01-4	12/18/12	4.0	ND<1.0	**1.5**	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
MW.01-8	12/18/12	8.0	ND<1.0	**1.3**	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
MW.02-8	12/21/12	8.0	ND<1.0	**2.3**	**7.4**	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
MW.03-4	12/19/12	4.0	ND<1.0	**1.3**	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
MW.03-8	12/19/12	8.0	ND<1.0	**1.5**	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
MW.04-4	12/18/12	4.0	ND<1.0	**1.8**	**7.4**	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
MW.04-8	12/18/12	8.0	ND<1.0	**1.6**	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SI.01	12/07/12	0.5	**1.8**	**72**	**160**	ND<0.05	ND<0.005	ND<0.005	**0.0076,J**	ND<0.05	**0.016**
SI.02	12/07/12	0.5	**11**	**430**	**660**	**0.15**	ND<0.0020	ND<0.0032	**0.012,J**	ND<0.011	**0.019**
SCALE	12/07/12	0.5	**0.26,J**	**3.6**	**12**	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-08-2	01/30/13	2.0	ND<1.0	**140**	**1,000**	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-09-2	01/31/13	2.0	ND<1.0	**120**	**1,400**	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-10-2	01/30/13	2.0	ND<1.0	**1.9**	**6.5**	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-11-2	01/31/13	2.0	ND<1.0	**13**	**170**	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-12-1	01/31/13	1.0	ND<1.0	**20**	**98**	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-12-2	01/31/13	2.0	ND<1.0	**2.9**	**7.9**	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-13-2	01/30/13	2.0	ND<1.0	**1.1**	**6.0**	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-14-2	01/30/13	2.0	ND<1.0	**1.4**	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-15-2	01/30/13	2.0	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-15-6	01/30/13	6.0	ND<1.0	ND<1.0	**9.0**	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-16-2	01/31/13	2.0	ND<1.0	**1.0**	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-17-2	01/31/13	2.0	ND<1.0	**13**	**52**	**0.079**	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-18-2	01/30/13	2.0	ND<1.0	**2.1**	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-19-1	01/30/13	1.0	ND<1.0	**130**	**2,300**	**0.094**	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-19-2	01/30/13	2.0	ND<1.0	**1.9**	**20**	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-20-2	01/31/13	2.0	ND<1.0	**1.3**	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
SP-21-2	01/31/13	2.0	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.02	ND<0.05	ND<0.005
ESL Drinking Water Resources (Residential)			83	**83**	**370**	0.5	---	0.044	3.9	0.075	
ESL Non-Drinking Water Resources (Residential)			100	**100**	**370**	0.5	---	0.12	13	100	
ESL Drinking Water Resources (Commercial/Industrial)			83	**83**	2,500	0.5	---	0.044	3.9	0.075	
ESL Drinking Water Resources (Commercial/Industrial)			180	180	2,500	0.5	---	0.270	13	110	

Notes:

(mg/Kg)	= Milligrams per Kilogram
---	= Not applicable
ND<0.5	= Not detected at or above representative detection limit
TPH-G	= Total Petroleum Hydrocarbons as Gasoline
TAME	= tert-Amyl Methyl Ether
MEK	= Methyl Ethyl Ketone
TBA	= t-Butyl Alcohol
J	= Analyte detected below quantitation limits
ESL	= Environmental Screening Levels (RWQCB, 2008), Table A (Drinking Water Resource), Table B (Non-Drinking Water Resource)

TABLE 4 (Cont.) – Summary of Sludge, Scale, & Soil Sample Analytical Results, U.S. EPA Methods 8015B, 8260B, and 8270B

SAMPLE ID	DATE SAMPLED	SAMPLE INTERVAL (feet BSG)	ANALYTES								
			8260B								
			DIPE (mg/kg)	Ethyl-Benzene (mg/kg)	ETBE (mg/kg)	2-Hexanone (mg/kg)	Isopropyl Benzene (mg/kg)	4-Isopropyl Toluene (mg/kg)	MTBE (mg/kg)	Methylene Chloride (mg/kg)	MIBK (mg/kg)
MW.01-4	12/18/12	4.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW.01-8	12/18/12	8.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW.02-8	12/21/12	8.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW.03-4	12/19/12	4.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW.03-8	12/19/12	8.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW.04-4	12/18/12	4.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW.04-8	12/18/12	8.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SI.01	12/07/12	0.5	ND>0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	**0.0044,J**	ND<0.005
SI.02	12/07/12	0.5	**0.0028**	**0.043**	ND<0.0026	ND<0.0050	**0.011**	**0.0072,J**	ND<0.0026	ND<0.0072	ND<0.0016
SCALE	12/07/12	0.5	ND>0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-08-2	01/30/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-09-2	01/31/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-10-2	01/30/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-11-2	01/31/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-12-1	01/31/13	1.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-12-2	01/31/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-13-2	01/30/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-14-2	01/30/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-15-2	01/30/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-15-6	01/30/13	6.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-16-2	01/31/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-17-2	01/31/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-18-2	01/30/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-19-1	01/30/13	1.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-19-2	01/30/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-20-2	01/31/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SP-21-2	01/31/13	2.0	ND0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
ESL Drinking Water Resources (Residential)			---	2.3	---	---	---	---	0.023	---	2.8
ESL Non-Drinking Water Resources (Residential)			---	2.3	---	---	---	---	8.4	---	3.9
ESL Drinking Water Resources (Commercial/Industrial)			---	3.3	---	---	---	---	8.4	---	2.8
ESL Drinking Water Resources (Commercial/Industrial)			---	4.7	---	---	---	---	8.4	---	3.9

Notes:

(mg/Kg)	**= Milligrams per Kilogram**
---	**= Not applicable**
ND<0.5	**= Not detected at or above representative detection limit**
DIPE	**= Total Petroleum Hydrocarbons as Gasoline**
ETBE	**= Ethyl tert-butyl ether**
MTBE	**= Methyl tert-butyl ether**
MIBK	**= Methyl isobutyl ketone**
J	**= Analyte detected below quantitation limits**
ESL	**= Environmental Screening Levels (RWQCB, 2008), Table A (Drinking Water Resource), Table B (Non-Drinking Water Resource)**

TABLE 4 (Cont.) – Summary of Sludge, Scale, & Soil Sample Analytical Results, U.S. EPA Methods 8015B, 8260B, and 8270B

SAMPLE ID	DATE SAMPLED	SAMPLE INTERVAL (feet BSG)	ANALYTES							
			8260B					8270		
			Naphthalene (mg/kg)	Toluene (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)	Benzoic Acid (mg/kg)	Naphthalene (mg/kg)	Phenol (mg/kg)
MW.01-4	12/18/12	4.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
MW.01-8	12/18/12	8.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
MW.02-8	12/21/12	8.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
MW.03-4	12/19/12	4.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
MW.03-8	12/19/12	8.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
MW.04-4	12/18/12	4.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
MW.04-8	12/18/12	8.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SI.01	12/07/12	0.5	**0.0023,J**	**0.0058**	**0.0035,J**	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SI.02	12/07/12	0.5	**0.16**	**0.0059,J**	**0.18**	**0.089**	**0.48**	ND<1.0	ND<0.13	ND<0.12
SCALE	12/07/12	0.5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-08-2	01/30/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<20	ND<2.6	ND<2.4
SP-09-2	01/31/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-10-2	01/30/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-11-2	01/31/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-12-1	01/31/13	1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-12-2	01/31/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-13-2	01/30/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-14-2	01/30/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-15-2	01/30/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-15-6	01/30/13	6.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-16-2	01/31/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-17-2	01/31/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-18-2	01/30/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-19-1	01/30/13	1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<2.0	ND<0.26	ND<0.24
SP-19-2	01/30/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-20-2	01/31/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
SP-21-2	01/31/13	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<1.0	ND<0.13	ND<0.12
ESL Drinking Water Resources (Residential)			1.3	2.9	---	---	2.3	---	1.3	0.076
ESL Non-Drinking Water Resources (Residential)			1.3	9.3	---	---	11	---	1.3	3.9
ESL Drinking Water Resources (Commercial/Industrial)			2.8	2.9	---	---	2.3	---	2.8	0.076
ESL Drinking Water Resources (Commercial/Industrial)			2.8	9.3	---	---	11.0	---	2.8	3.9

Notes:
(mg/Kg) = Milligrams per Kilogram
--- = Not applicable
ND<0.5 = Not detected at or above representative detection limit
J = Analyte detected below quantitation limits
ESL = Environmental Screening Levels (RWQCB, 2008), Table A (Drinking Water Resource), Table B (Non-Drinking Water Resource)

TABLE 5 – Summary of Groundwater Sample Analytical Results, Field-Based Measurements

SAMPLE ID	DATE SAMPLED	ANALYSIS				
		pH	EC (µS/cm)	DO (mg/L)	Temperature (°C)	ORP (mV)
MW.01	12/28/12	7.83	**3,301**	6.70	20.30	47.8
MW.02	12/28/12	6.99	**5,780**	3.54	19.69	80.1
MW.03	12/28/12	6.53	**4,465**	5.82	19.46	135.0
MW.04	12/28/12	7.50	**3,672**	6.73	20.31	83.2
SFBRWQCB Basin Plan		6.5 - 8.0	**900**	---	---	---

NOTES:
EC = **Electrical Conductivity**
µS/cm = **micro Siemens per centimeter**
°C = **Degrees Celcius**
DO = **Dissolved Oxygen**
mg/L = **Milligrams per Liter**
ORP = **Oxygen Reduction Potential**
mV = **milli Volts**
SFBRWQCB = **San Francisco Bay Regional Water Quality Control Board**

TABLE 6 – Summary of Groundwater Sample Analytical Results, U.S. EPA Methods 8015B, 8260B, and 8270B

SAMPLE ID	DATE	ANALYTES									
		8015			8260						
		TPH-G (µg/L)	TPH-D (µg/L)	TPH-MO (µg/L)	Acetone (µg/L)	TAME (µg/L)	Benzene (µg/L)	MEK (µg/L)	TBA (µg/L)	DIPE (µg/L)	Ethyl-Benzene (µg/L)
MW.01	12/28/12	ND<50	**27,J**	ND<250	ND<10	ND<0.5	ND<0.5	ND<2.0	ND<2.0	ND<0.5	ND<0.5
MW.02	12/28/12	ND<50	**41,J**	ND<250	ND<10	ND<0.5	ND<0.5	ND<2.0	ND<2.0	ND<0.5	ND<0.5
MW.03	12/28/12	**51**	**120**	ND<250	ND<10	ND<0.5	**0.85**	ND<2.0	ND<2.0	ND<0.5	ND<0.5
MW.04	12/28/12	ND<50	**56**	ND<250	ND<10	ND<0.5	ND<0.5	ND<2.0	ND<2.0	ND<0.5	ND<0.5
SFBRWQCB Basin Plan WQO		**5.0***	**100***	---	---	---	1.0	---	---	---	700
ESL Drinking Water Resources (Residential)		100	**100**	---	1,500	---	1.0	4,200	12	---	30
ESL Non-Drinking Water Resources (Residential)		100	**100**	---	1,500	---	1.0	4,200	12	---	30
ESL Drinking Water Resources (Commercial/Industrial)		210	210	---	1,500	---	46	14,000	18,000	---	43
ESL Non-Drinking Water Resources (Commercial/Industrial)		210	210	---	1,500	---	46	14,000	18,000	---	43

Notes:
µg/L = microgram per Liter
ND<0.5 = Not detected at or above representative detection limit
TAME = tert-Amyl methyl ether
MEK = methyl ethyl ketone
TBA = t-Butyl alcohol
J = Analyte detected below quantitation limits
SFBRWQCB = San Francisco Bay Regional Water Quality Control Board
ESL = Environmental Screening Levels (SFBRWQCB, 2008), Table A (Drinking Water Resource), Table B (Non-Drinking Water Resource)

SAMPLE ID	DATE	ANALYTES									
		8260							8270		
		ETBE (µg/L)	Isopropyl benzene (µg/L)	MTBE (µg/L)	MIBK (µg/L)	Naphthalene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	Benzoic Acid (µg/L)	Naphthalene (µg/L)	Phenol (µg/L)
MW.01	12/28/12	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	**5.9,J**	ND<0.26	ND<0.36
MW.02	12/28/12	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<4.9	ND<0.25	ND<0.35
MW.03	12/28/12	ND<0.5	**6.8**	ND<0.5	**0.65**	**1.4**	ND<0.5	**0.72**	ND<5.5	**0.75,J**	ND<0.40
MW.04	12/28/12	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	**6.3,J**	ND<0.27	ND<0.38
SFBRWQCB Basin Plan WQO		---	---	13/5.0	---	---	150	1,750	---	---	---
ESL Drinking Water Resources (Residential)		---	---	5.0	120	17	40	20	---	17	5.0
ESL Non-Drinking Water Resources (Residential)		---	---	5.0	120	17	40	20	---	17	5.0
ESL Drinking Water Resources (Commercial/Industrial)		---	---	5.0	170	24	130	100	---	24	260
ESL Non-Drinking Water Resources (Commercial/Industrial)		---	---	1,800	170	24	130	100	---	24	260

Notes:
µg/L = microgram per Liter
ND<0.5 = Not detected at or above representative detection limit
DIPE = Diisopropyl ether
ETBE = Ethyl tert-butyl ether
MTBE = Methyl tert-butyl ether
MIBK = Methyl isobutyl ketone
J = Analyte detected below quantitation limits
SFBRWQCB = San Francisco Bay Regional Water Quality Control Board
ESL = Environmental Screening Levels (SFBRWQCB, 2008), Table A (Drinking Water Resource), Table B (Non-Drinking Water Resource)

FIGURES

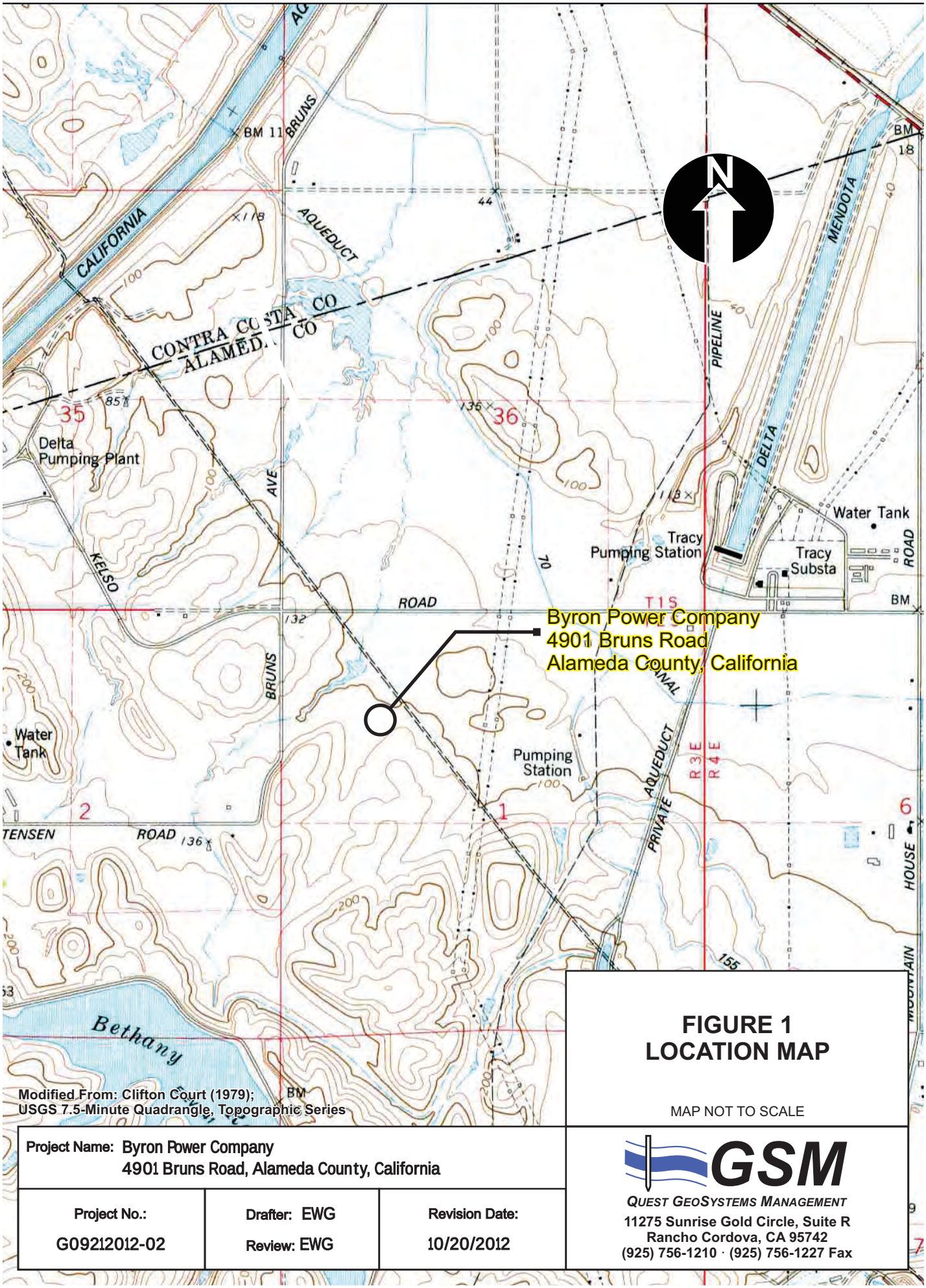


FIGURE 1
LOCATION MAP

MAP NOT TO SCALE

Project Name: Byron Power Company 4901 Bruns Road, Alameda County, California		
Project No.: G09212012-02	Drafter: EWG Review: EWG	Revision Date: 10/20/2012

GSM
QUEST GEOSYSTEMS MANAGEMENT
11275 Sunrise Gold Circle, Suite R
Rancho Cordova, CA 95742
(925) 756-1210 · (925) 756-1227 Fax

EXPLANATION

SI.01 — Sludge/Scale Sample Locations

Remedial Excavation Soil Sample Locations

Preferential Pathways

- Building Ground Rod
- 2" Conduits
- 4" & > Conduits
- Concrete Pad w/Gravel Base

20 0 20

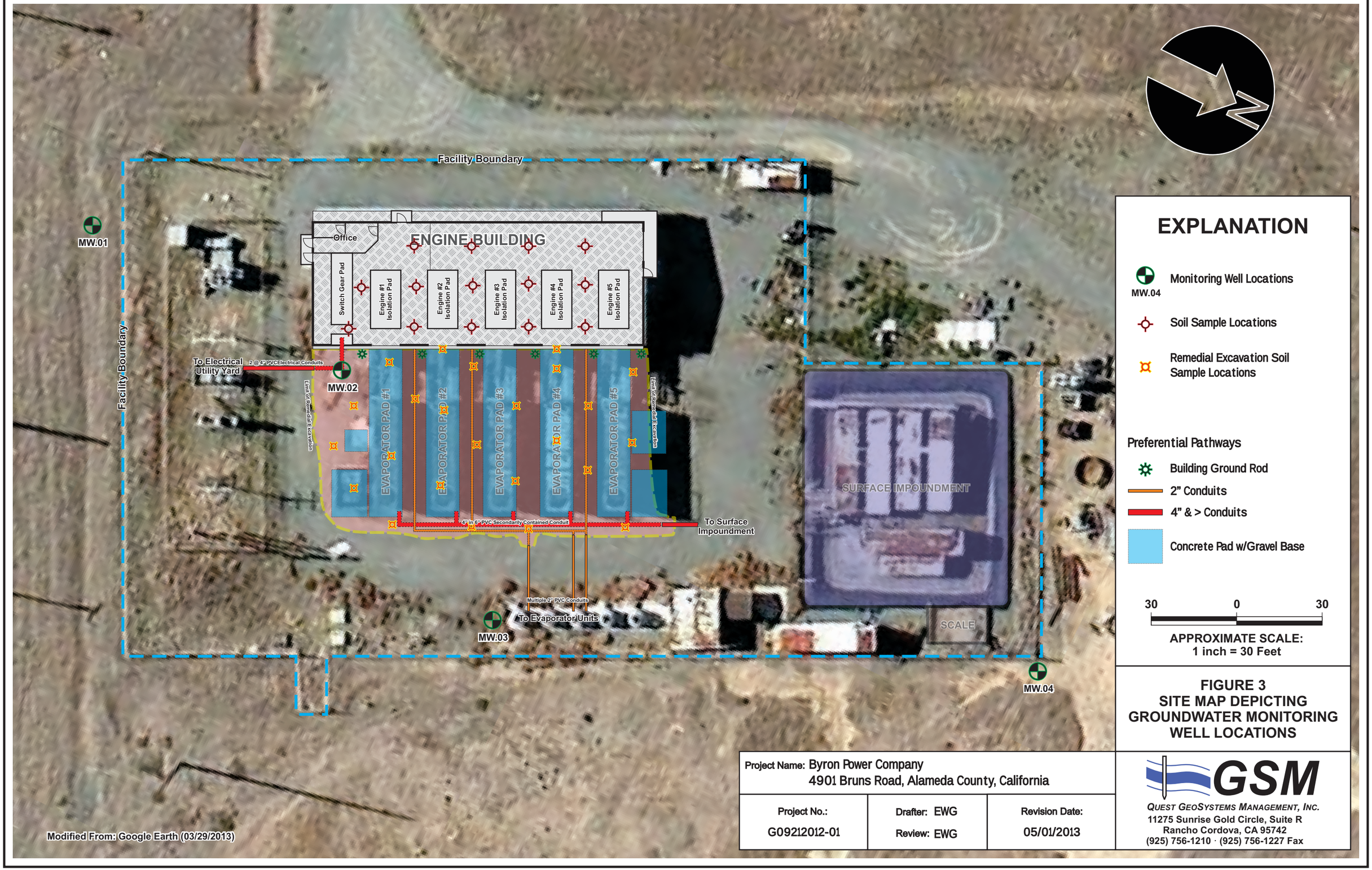
APPROXIMATE SCALE:
1 inch = 20 Feet

FIGURE 2
SITE MAP DEPICTING SLUDGE AND SCALE DEPOSIT SAMPLE LOCATIONS

Project Name: Byron Power Company
4901 Bruns Road, Alameda County, California

Project No.:	Drafter: EWG	Revision Date:
G09212012-01	Review: EWG	05/01/2013

GSM
QUEST GEOSYSTEMS MANAGEMENT, INC.
11275 Sunrise Gold Circle, Suite R
Rancho Cordova, CA 95742
(925) 756-1210 · (925) 756-1227 Fax



EXPLANATION

- MW.04 — Monitoring Well Locations
- Soil Sample Locations
- Remedial Excavation Soil Sample Locations

Preferential Pathways

- Building Ground Rod
- 2" Conduits
- 4" & > Conduits
- Concrete Pad w/Gravel Base

30 0 30

APPROXIMATE SCALE:
1 inch = 30 Feet

FIGURE 3
SITE MAP DEPICTING GROUNDWATER MONITORING WELL LOCATIONS

Project Name: Byron Power Company
4901 Bruns Road, Alameda County, California

Project No.:	Drafter: EWG	Revision Date:
G09212012-01	Review: EWG	05/01/2013

GSM
QUEST GEOSYSTEMS MANAGEMENT, INC.
11275 Sunrise Gold Circle, Suite R
Rancho Cordova, CA 95742
(925) 756-1210 · (925) 756-1227 Fax

Facility Boundary

Facility Boundary

Office

ENGINE BUILDING

SP.18 SP.19 SP.20 SP.21

Switch Gear Pad

SP.13 SP.14 SP.15 SP.16 SP.17

Engine #1 Isolation Pad

Engine #2 Isolation Pad

Engine #3 Isolation Pad

Engine #4 Isolation Pad

Engine #5 Isolation Pad

SP.08 SP.09 SP.10 SP.11 SP.12

To Electrical Utility Yard

2 @ 4" PVC Electrical Conduits

Limit of Remedial Excavation

EVAPORATOR PAD #1

EVAPORATOR PAD #2

EVAPORATOR PAD #3

EVAPORATOR PAD #4

EVAPORATOR PAD #5

Limit of Remedial Excavation

4" in 6" PVC Secondarily Contained Conduit

To Surface Impoundment

Multiple 2" PVC Conduits

To Evaporator Units

Modified From: Google Earth (03/29/2013)

EXPLANATION

SP.08 Soil Sample Locations

Remedial Excavation Soil Sample Locations

Preferential Pathways

Building Ground Rod

2" Conduits

4" & > Conduits

Concrete Pad w/Gravel Base

20 0 20

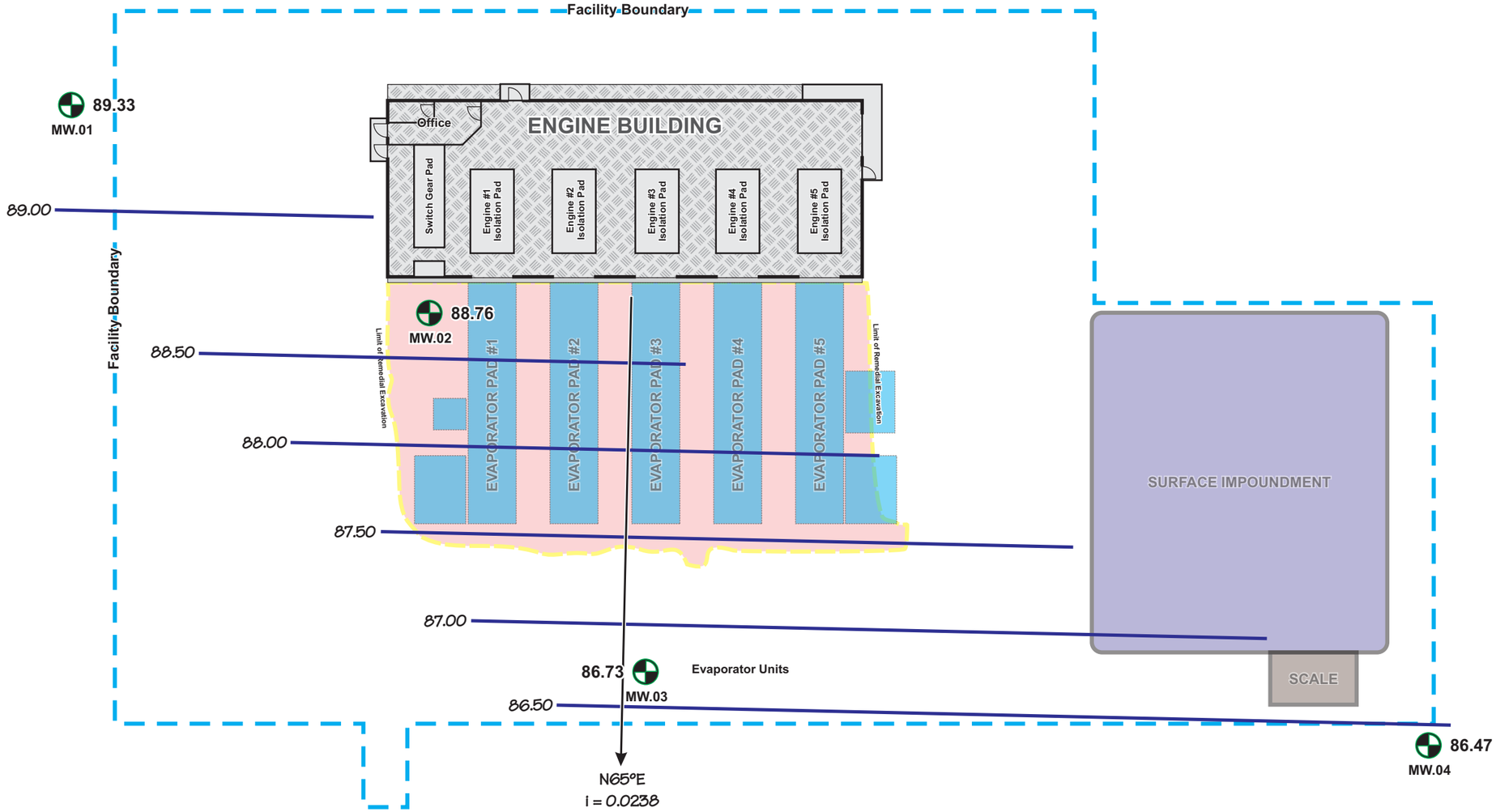
APPROXIMATE SCALE:
1 inch = 20 Feet

FIGURE 4
SITE MAP DEPICTING SOIL SAMPLE LOCATIONS

Project Name: Byron Power Company
4901 Bruns Road, Alameda County, California

Project No.:	Drafter: EWG	Revision Date:
G09212012-01	Review: EWG	05/01/2013

GSM
QUEST GEOSYSTEMS MANAGEMENT, INC.
11275 Sunrise Gold Circle, Suite R
Rancho Cordova, CA 95742
(925) 756-1210 · (925) 756-1227 Fax



EXPLANATION

MW.04 Monitoring Well Locations

Concrete Pad w/Gravel Base

30 0 30

APPROXIMATE SCALE:
1 inch = 30 Feet

FIGURE 5
GROUNDWATER ELEVATION CONTOUR MAP, DECEMBER 28, 2012

Modified From: Google Earth (03/29/2013)

Project Name: Byron Power Company 4901 Bruns Road, Alameda County, California		
Project No.: G09212012-01	Drafter: EWG Review: EWG	Revision Date: 05/01/2013

GSM
QUEST GEOSYSTEMS MANAGEMENT, INC.
11275 Sunrise Gold Circle, Suite R
Rancho Cordova, CA 95742
(925) 756-1210 · (925) 756-1227 Fax

APPENDIX A
PERMITS AND GEOTRACKER WELL SURVEY DATA

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Byron Power Company
4901 Bruns Road, Byron, CA 94514

Coordinates Source _____ ft. Accuracy∀ _____ ft.
LAT: 37.791719 ft. LONG: -121.60051 ft.
APN 99B-7050-1-10

CLIENT
Name Dan Guiino - Byron Power Partners, L.P.
Address 14 Philips Parkway Phone (201) 447-9000
City Montvale, NJ Zip 07645

APPLICANT
Name Eric Garcia - Quest GeoSystems Management, Inc.
Email EWG@QUESTGSM.COM Fax (925) 756-1227
Address 11275 Sunrise Gold Cir, Ste R Phone (925) 756-1210
City Rancho Cordova, CA Zip 95742

TYPE OF PROJECT:
Well Construction ___ Geotechnical Investigation
Well Destruction ___ Contamination Investigation ☑
Cathodic Protection ___ Other _____ ___

PROPOSED WELL USE:
Domestic ___ Irrigation ___
Municipal ___ Remediation ___
Industrial ___ Groundwater Monitoring ___
Dewatering ___ Other _____ ___

DRILLING METHOD:
Mud Rotary ___ Air Rotary Hollow Stem Auger ___
Cable Tool ___ Direct Push ☑ Other _____ ___

DRILLING COMPANY Woodward Drilling Company, Inc.
PO BOX 336, Rio Vista, CA 94571
DRILLER'S LICENSE NO. 710079

WELL SPECIFICATIONS:
Drill Hole Diameter _____ in. Maximum
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

SOIL BORINGS:
Number of Borings 15 Maximum
Hole Diameter 2.5 in. Depth 18 ft.

ESTIMATED STARTING DATE 01/28/2013
ESTIMATED COMPLETION DATE 02/01/2013

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE _____ Date 01/23/13

ATTACH SITE PLAN OR SKETCH

PERMIT NUMBER 2013007
WELL NUMBER _____
APN 99B-7050-001-10

PERMIT CONDITIONS
(Circled Permit Requirements Apply)

(A) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.
3. Permit is void if project not begun within 90 days of approval date.
4. Notify Zone 7 at least 24 hours before the start of work.

B. WATER SUPPLY WELLS
1. Minimum surface seal diameter is four inches greater than the well casing diameter.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

(G.) SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

Approved Wyman Hong Date 1/24/13
Wyman Hong

Revised: January 4, 2010

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT **Byron Power Company**
4901 Bruns Road, Byron, CA 94514

Coordinates Source _____ ft. Accuracy _____ ft.
LAT: **37.791719** ft. LONG: **-121.60051** ft.
APN **99B-7050-1-10**

CLIENT
Name **Dan Gulino - Byron Power Partners, L.P.**
Address **14 Philips Parkway** Phone **(201) 447-9000**
City **Montvale, NJ** Zip **07645**

APPLICANT
Name **Eric Garcia - Quest GeoSystems Management, Inc.**
Email **EWG@QUESTGSM.COM** Fax **(925) 756-1227**
Address **11275 Sunrise Gold Cir, Ste R** Phone **(925) 756-1210**
City **Rancho Cordova, CA** Zip **95742**

TYPE OF PROJECT:
Well Construction ☑ Geotechnical Investigation
Well Destruction ☐ Contamination Investigation ☑
Cathodic Protection ☐ Other ☐

PROPOSED WELL USE:
Domestic ☐ Irrigation ☐
Municipal ☐ Remediation ☐
Industrial ☐ Groundwater Monitoring ☑
Dewatering ☐ Other ☐

DRILLING METHOD:
Mud Rotary ☐ Air Rotary ☐ Hollow Stem Auger ☑
Cable Tool ☐ Direct Push ☐ Other ☐

DRILLING COMPANY **Woodward Drilling Company, Inc.**
PO Box 336, Rio Vista, CA 94571
DRILLER'S LICENSE NO. **710079**

WELL SPECIFICATIONS:
Drill Hole Diameter **8** in. Maximum
Casing Diameter **2** in. Depth **35** ft.
Surface Seal Depth **11** ft. Number **4 (temp)**

SOIL BORINGS:
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE **11/26/2012**
ESTIMATED COMPLETION DATE **12/26/2012**

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE _____ Date 11/21/2012

ATTACH SITE PLAN OR SKETCH

PERMIT NUMBER 2012134
WELL NUMBER 2S/3E-1C2 to 1C5 (MW-1 to MW-4)
APN 99B-7050-001-10

PERMIT CONDITIONS
(Circled Permit Requirements Apply)

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original **Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller**
3. Permit is void if project not begun within 90 days of approval date.
4. **Notify Zone 7 at least 24 hours before the start of work.**

B. WATER SUPPLY WELLS
1. Minimum surface seal diameter is four inches greater than the well casing diameter.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

(C.) GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report **including all soil and water laboratory analysis results.**

Approved Wyman Hong Date 11/26/12
Wyman Hong

Revised: January 4, 2010

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT	ELEV_DESC	EFF_DATE
T10000003401	MW.01	12/28/2012	110.83	CGPS	88	99	BENCHMARK CONSULTANTS	2.79	Alameda County BM Elev. 116.458	
T10000003401	MW.02	12/28/2012	107.03	CGPS	88	99	BENCHMARK CONSULTANTS	2.62	Alameda County BM Elev. 116.459	
T10000003401	MW.03	12/28/2012	106.92	CGPS	88	99	BENCHMARK CONSULTANTS	2.59	Alameda County BM Elev. 116.460	
T10000003401	MW.04	12/28/2012	104.02	CGPS	88	99	BENCHMARK CONSULTANTS	2.66	Alameda County BM Elev. 116.461	

GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY_SURVEY	LATITUDE	LONGTITUDE	XY_METHOD	XY_DATUM	XY_ACC_V	XY_SURVEY_ORG	GPS_EQUIP_TYPE	XY_SURVEY_DESC
T10000003401	MW.01	MW	12/28/2012	37.7912067	-121.6004705	CGPS	NAD83	99	Benchmark Consultants Antioch CA	HIP	BMC Point Number 109
T10000003401	MW.02	MW	12/28/2012	37.7914952	-121.6004439	CGPS	NAD83	99	Benchmark Consultants Antioch CA	HIP	BMC Point Number 105
T10000003401	MW.03	MW	12/28/2012	37.7917013	-121.6002832	CGPS	NAD83	99	Benchmark Consultants Antioch CA	HIP	BMC Point Number 103
T10000003401	MW.04	MW	12/28/2012	37.7921990	-121.6004971	CGPS	NAD83	99	Benchmark Consultants Antioch CA	HIP	BMC Point Number 113

APPENDIX B
SOIL BORING LOGS

PROJECT:	**BORING LOG**	**KEY**
DRILLING CONTRACTOR:	STARTED:	FINISHED:
DRILLER'S NAME:	NORTHING:	EASTING:
DRILLING METHOD:	COORD SYSTEM/DATUM:	
DRILLING EQUIPMENT:	HOLE DIAMETER [in]:	TOTAL DEPTH [ft]: 21
SAMPLING METHOD:	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:
HAMMER WEIGHT: / DROP [in]:	LOGGED BY:	PROJECT MANAGER:

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions:
0							GW	
1							GP	
2							GM	Casing
3							GC	
4							SW	
5							SP	
6							SM	Screen
7							SC	
8							ML	
9							CL	
10							OL	Grout / Portland Cement
11							MH	
12							CH	
13							OH	
14							Pt	Bentonite
15							Asphalt	
16							Concrete	
17							Topsoil	
18							Baserock Fill	Sand
19							Volcanic Ash	
20							Volcanic Rock	
21								

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**MW-1**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 12/17/2012	FINISHED: 12/18/2012	
DRILLER'S NAME: Armand	NORTHING:	EASTING:	
DRILLING METHOD: Hollow Stem Auger	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: HK-81	HOLE DIAMETER [in]: 8	TOTAL DEPTH [ft]: 27	
SAMPLING METHOD: 2 "x24" Cal Mod; continuous core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]: 27	
HAMMER WEIGHT:	DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: cold, clear, light wind
0							TOPSOIL	Above ground well completion, monument with locking cap
1							SILTY SAND (SM): Dark yellowish brown (10YR 4/4), loose, dry to moist, 60% fine sand, 30% silt, 20% clay	
2								
3								Casing: 2" schedule 40 PVC (0-17')
4	MW.01-4						VOLCANIC ASH: dry to moist, deeply weathered, trace of open root burrows <1/8" diameter, heavy iron staining along burrows	
5						NO		
6				83				Grout (Portland cement) (0-12.5')
7						NO		
8	MW.01-8			50				
9						NO		
10				83				
11						NO		
12				50				
13						NO		Bentonite pellets (12.5-15')
14				75				
15						NO		
16				83				

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**	**MW-1**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 12/17/2012	FINISHED: 12/18/2012
DRILLER'S NAME: Armand	NORTHING:	EASTING:
DRILLING METHOD: Hollow Stem Auger	COORD SYSTEM/DATUM:	
DRILLING EQUIPMENT: HK-81	HOLE DIAMETER [in]: 8	TOTAL DEPTH [ft]: 27
SAMPLING METHOD: 2 "x24" Cal Mod; continuous core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]: 27
HAMMER WEIGHT: / DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: cold, clear, light wind
17						NO	SANDY SILT (ML): Dark yellowish brown (10YR 4/6), soft, dry to moist, 40% fine to very fine sand, 60% silt	
							VOLCANIC ASH	
18				75				#3 Sand (15-27')
19						NO	VOLCANIC ASH: Light olive brown (2.5Y 5/6), dry to moist, very deeply weathered-clay rich	Screen: 2" schedule 40 PVC with 0.010" slots (17-27')
20				75				
21						NO	SILTY SAND (SM): Dark yellowish brown (10YR 4/6), dense, wet, 80% very fine to fine sand, 15% silt, 5% clay	
22				79				
23						NO	WELDED TUFF: 3" thick layer at 23'	
							VOLCANIC ASH: Light olive brown (2.5Y 5/6), dry to moist, very deeply weathered-clay rich	
24				0				
25						NO	SANDY FAT CLAY (CH): Yellowish brown (10YR 4/4), soft, wet, 10% gravel, 35% fine sand, 55% clay, volcanic clasts deeply weathered	
26				75				
27								

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**MW-2**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 12/21/2012 11:00	FINISHED: 12/21/2012 15:15	
DRILLER'S NAME: Joe	NORTHING:	EASTING:	
DRILLING METHOD: Hollow Stem Auger	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: Mobile B-53	HOLE DIAMETER [in]: 8	TOTAL DEPTH [ft]: 27.5	
SAMPLING METHOD: 2 "x24" Cal Mod; continuous core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]: 27	
HAMMER WEIGHT: 130 / DROP [in]: 30	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia	

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: occasional rain, cold windy
0							BASEROCK FILL: Class II AB fill	Above ground well completion, monument with locking cap
1								
2								
3								Casing: 2" schedule 40 PVC (0-17')
4								
5			5			NO	SILTY SAND (SM): Dark yellowish brown (10YR 3/6), loose to medium dense, moist, 60% very fine sand, 40% silt	
6			7 3	75				Portland Cement grout (0-13')
7			6 7			NO		
8	MW.02-8		6 3	92			color change to dark yellowish brown (10YR 4/6) at 8'	
9			6 5			NO		
10			9 10	83				
11			11 5			NO		
12			8 10	83			70% fine sand, 30% silt at 12'	
13			12 10			NO		
14			12 12	50				Medium bentonite chips (13-15')
15			17 4			NO		
16			4 31				VOLCANIC ASH: Mottled light yellowish brown	

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**	**MW-2**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 12/21/2012 11:00	FINISHED: 12/21/2012 15:15
DRILLER'S NAME: Joe	NORTHING:	EASTING:
DRILLING METHOD: Hollow Stem Auger	COORD SYSTEM/DATUM:	
DRILLING EQUIPMENT: Mobile B-53	HOLE DIAMETER [in]: 8	TOTAL DEPTH [ft]: 27.5
SAMPLING METHOD: 2 "x24" Cal Mod; continuous core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]: 27
HAMMER WEIGHT: 130 / DROP [in]: 30	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: occasional rain, cold windy
17			36			NO	(2.5Y 6/3) and light olive brown (2.5Y 4.3), weak, friable, deeply weathered, light iron staining	
			50/4"					
18				17				
19						NO		
			28					
			19					
20			32				trace open root holes with iron stains at 19-21'	
			50/4"					
21						NO		#3 Sand (15-27.5')
								Screen: 2" schedule 40 PVC with 0.010" slots (17-27')
22				0			3" welded tuff layer at 22.5'	
23						NO	VOLCANIC ASH: Pale olive (5Y 6/3), wet, deeply weathered, friable, weak	
24								
25						NO		drill without sampling 23-27.5'
26								
27								

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**MW-3**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 12/19/2012 13:00	FINISHED: 12/19/2012	
DRILLER'S NAME: Armand	NORTHING:	EASTING:	
DRILLING METHOD: Hollow Stem Auger	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: HK-81	HOLE DIAMETER [in]: 8	TOTAL DEPTH [ft]: 25.5	
SAMPLING METHOD: 2 "x24" Cal Mod; continuous core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]: 25	
HAMMER WEIGHT:	DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	SAMPLES: Sample	SAMPLES: Blows/ 6 in.	SAMPLES: Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: clear, warm, calm
0–5	MW.03-4					NO	SANDY SILT (ML): Dark yellowish brown (10YR 4/6), soft, moist, 40% very fine sand, 55% silt, 5% clay, low plasticity	Above ground well completion, monument with locking cap; Casing: 2" schedule 40 PVC (0-15'); Hand augered to 5'
5–6				75				
6–7						NO	SANDY SILT (ML): Dark yellowish brown (10YR 5/6), soft, dry to moist, 70% fine sand, 30% silt, low plasticity	Grout (Portland cement) (0-11')
7–8	MW.03-8			83				
8–9						NO		
9–10				67				
10–11						NO		
11–12				83			SILTY SAND (SM): Dark yellowish brown (10YR 5/6), loose, dry to moist	Bentonite pellets (11-13')
12–13						NO		
13–14				83				
14–15						NO	SILTY SAND (SM): Dark yellowish brown (10YR 3/4), loose, dry to moist, 10% fine subrounded gravel, 70% fine sand, 20% silt	
15–16				50				

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**	**MW-3**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 12/19/2012 13:00	FINISHED: 12/19/2012
DRILLER'S NAME: Armand	NORTHING:	EASTING:
DRILLING METHOD: Hollow Stem Auger	COORD SYSTEM/DATUM:	
DRILLING EQUIPMENT: HK-81	HOLE DIAMETER [in]: 8	TOTAL DEPTH [ft]: 25.5
SAMPLING METHOD: 2 "x24" Cal Mod; continuous core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]: 25
HAMMER WEIGHT:	DROP [in]:	LOGGED BY: RLN / PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: clear, warm, calm
17								#3 Sand (13-25.5')
18				67			SILTY SAND (SM): Yellowish brown (10YR 5/6), loose, moist, 80% fine subrounded sand, 20% silt, light iron stain	
19								
20				83			VOLCANIC ASH: Mottled yellowish brown (10YR 4/4) and olive (5Y5/3), soft, moist, friable, weak, widely fractured, trace micaceous	Screen: 2" schedule 40 PVC with 0.010" slots (15-25')
21								
22				83				
23								
24				75				
25								

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**MW-4**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 12/18/2012	FINISHED: 12/18/2012	
DRILLER'S NAME: Armand	NORTHING:	EASTING:	
DRILLING METHOD: Hollow Stem Auger	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: HK-81	HOLE DIAMETER [in]: 8	TOTAL DEPTH [ft]: 31	
SAMPLING METHOD: 2 "x24" Cal Mod; continuous core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]: 24	
HAMMER WEIGHT:	DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: clear, cold, light wind
0							SILTY SAND (SM): Brown (7.5YR 4/4), loose, moist, 60% fine sand, 30% silt, 10% clay, low plasticity	Above ground well completion, monument with locking cap
1								
2						NO		
3						NO		Casing: 2" schedule 40 PVC (0-14')
4	MW.04-4							
5							trace calcite veining at 5'	Hand augered to 5'
6				100	0	NO	SILTY SAND (SM): Dark yellowish brown (10YR 4/6), loose, moist, 60% very fine sand, 40% silt, 2" interbeds of silty sand with 80% fine sand, 20% silt	
7						NO		Lean grout, Type II Portland cement (0-11')
8	MW.04-8			75				
9						NO		
10				67				
11						NO	SANDY LEAN CLAY (CL): Yellowish brown (10YR 5/6), soft, wet to moist, 30% very fine sand, 70% lean clay	
12				100				Bentonite pellets (11-13')
13						NO	SILTY SAND (SM): Yellowish brown (10YR 5/6), dense, moist, 80% very fine sand, 20% silt	
14				83				
15						NO		
16				83			SILTY SAND (SM): Yellowish brown (10YR 5/6),	

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**	**MW-4**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 12/18/2012	FINISHED: 12/18/2012
DRILLER'S NAME: Armand	NORTHING:	EASTING:
DRILLING METHOD: Hollow Stem Auger	COORD SYSTEM/DATUM:	
DRILLING EQUIPMENT: HK-81	HOLE DIAMETER [in]: 8	TOTAL DEPTH [ft]: 31
SAMPLING METHOD: 2 "x24" Cal Mod; continuous core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]: 24
HAMMER WEIGHT: / DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: clear, cold, light wind
17						NO	loose, wet, 70% fine to coarse sand, 30% silt	
18				75				#3 Sand (13-25')
19						NO	WELL GRADED GRAVEL with SAND (GW): Yellowish brown (10YR 5/6), loose, wet, 40% fine rounded to subrounded gravel, 40% fine to medium sand, 20% silt	Screen: 2" schedule 40 PVC with 0.010" slots (14-24')
20				100				
21						NO		
22				75			SILTY SAND (SM): Yellowish brown (10YR 5/6), loose, wet, 80% fine to medium sand, 20% silt, light iron stain, 6" layer of fine gravel (Sandstone and Red Chert) at 24'	
23						NO		
24				100				
25						NO		
26				83				
27							VOLCANIC ASH: Vari-colored (pale yellow (2.5Y 6/3); yellow brown (10YR 5/6); strong brown (7.5YR 4/6)), wet, very deeply weathered, friable, elongated fine gravel size pieces oriented horizontally in clayey matrix	
28				83				Bentonite chips (25-31')
29						NO		
30				50				
31								

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**SP-8**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/30/2013 09:50	FINISHED: 1/30/2013 10:08	
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:	
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 16	
SAMPLING METHOD: Continuous Core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:	
HAMMER WEIGHT:	DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside building
0					0	NO	CONCRETE	
1							GRAVEL SILTY SAND (SM): Brown (10YR 4/3), soft, wet to 2', moist below 2', 70% very fine sand, 30% silt	
2	SP-08-2			69				
3								
4					0	NO		
5							SILTY SAND (SM): Dark yellowish brown (10YR 3/6), stiff, moist, 70% fine sand, 30% silt, trace clay, low plasticity	
6				42				
7								
8					0	NO		
9								
10				63				
11								
12					0	NO		
13							SANDY LEAN CLAY (CL): Yellowish brown (10YR 5/6), soft, moist, 30% very fine sand, 70% clay, moderate to high plasticity, trace deeply weathered volcanic clasts	
14				75				
15					0	NO	SILTY SAND (SM): Yellowish brown (10YR 5/6), medium stiff, moist, 70% fine sand, 30% silt, trace iron staining, trace weathered volcanic clasts	
16							VOLCANIC ROCK: Mottled light yellowish brown (10YR 6/4) and dark yellowish brown (10YR 4/6), moist and wet, very deeply weathered	Backfilled 1/30/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**SP-9**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/30/2013 13:00	FINISHED: 1/30/2013 13:20	
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:	
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 12	
SAMPLING METHOD: Continuous Core - dual tube	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:	
HAMMER WEIGHT: / DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia	

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside of building
0					0	NO	CONCRETE	
1							GRAVEL SANDY SILT (ML): Brown (10YR 4/3), soft to medium stiff, moist, 30% fine sand, 70% silt	
2	SP-09-2			48	0	NO		
3								
4					0	NO		
5								
6				63			SILTY SAND (SM): Yellowish brown (10YR 5/6), stiff, moist, 70% fine sand, 30% silt, low plasticity	
7					0	NO		
8					0	NO		
9								
10				63	0	NO	VOLCANIC ASH: Mottled yellowish brown (10YR 5/6) and olive (5Y5/4), moist, deeply weathered, friable, weak	Hand drilling from 10'
11								Refusal at 12.0'
12					0	NO		Backfilled 1/30/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**SP-10**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/30/2013 13:34	FINISHED: 1/30/2013 13:55	
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:	
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 16	
SAMPLING METHOD: Continuous Core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:	
HAMMER WEIGHT: / DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia	

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside building
0					0	NO	CONCRETE	
1							GRAVEL SANDY SILT (ML): Dark yellowish brown (10YR 3/4), soft, wet, 30% fine sand, 70% silt	
2	SP-10-2			71			moist and stiff below 2'	
3								
4					0	NO	SILTY SAND (SM): Yellowish brown (10YR 5/6), stiff, moist, 80% fine sand, 20% silt, low plasticity	
5								
6				50				
7								
8					0	NO		
9							sand coarsens with depth	
10				63			trace roots from ~10'	
11							trace fine chert and sandstone gravels	
12					0	NO	VOLCANIC ASH: Mottled brownish yellow (10YR 6/5) and yellowish brown (10YR 5/6), very stiff, very deeply weathered, friable, 10% subangular gravel-sized volcanic clasts	
13								
14				75	0	NO		
15								
16					0	NO		Backfilled 1/30/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**	**SP-11**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/31/2013 09:20	FINISHED: 1/31/2013 09:40
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:	
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 16
SAMPLING METHOD: Continuous Core - dual tube	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:
HAMMER WEIGHT: / DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside building
0					1	Faint	CONCRETE	
1							GRAVEL: no odor	
2	SP-11-2			71			SANDY SILT (ML): Dark greyish brown (10YR 4/2), soft, wet, 30% fine to very fine sand, 70% silt	
3								
4					0	NO	SANDY SILT (ML): Dark yellowish brown (10YR 4/6), very stiff, moist, 25% fine sand, 75% silt	
5				83				
6					0	NO		
7				83				
8					0	NO		
9				83				
10					0	NO		
11				75			SILTY SAND (SM): Yellowish brown (10YR 5/6), loose, wet to moist, 80% very fine to medium sand, 20% silt	
12					0	NO		
13				96			VOLCANIC ASH: Mottled brownish yellow (10YR 6/6) and yellowish brown (10YR 5/6), stiff, very deeply weathered, friable, clay rich matrix	
14					0	NO		
15				83				
16					0	NO		Backfilled 1/31/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**SP-12**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/31/2013 10:05	FINISHED: 1/31/2013 10:40	
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:	
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 14	
SAMPLING METHOD: Continuous Core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:	
HAMMER WEIGHT:	DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	SAMPLES: Sample	SAMPLES: Blows/ 6 in.	SAMPLES: Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside of building
0					0	Faint	CONCRETE: no odor	
1	SP-12-1						GRAVEL SANDY SILT (ML): Dark greyish brown (10YR 4/2), medium stiff, moist, 30% very fine sand, 70% silt	
2	SP-12-2			71	0	NO	SANDY SILT (ML): Dark yellowish brown (10YR 4/6), stiff, moist, 40% fine sand, 60% silt	
3								
4					0	NO		
5				83				
6					0	NO		
7				75				
8					0	NO		
9				96				
10					0	NO	SANDY SILT (ML): Dark yellowish brown (10YR 4/6), stiff, moist, 30% fine sand, 70% silt	
11				83				
12					0	NO		
13				75			VOLCANIC ASH	Refusal at 14.0'
14					0	NO		Backfilled 1/31/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**SP-13**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/30/2013 10:50	FINISHED: 1/30/2013 11:05	
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:	
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 16	
SAMPLING METHOD: Continuous Core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:	
HAMMER WEIGHT:	DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside of building
0					0	NO	CONCRETE	
							GRAVEL	
1					0	NO	SANDY SILT (ML): Brown (10YR 4/3), medium stiff to soft, moist, 30% very fine sand, 70% silt, trace clay, low to moderate plasticity	
2	SP-13-2			71				
3								
4					0	NO	SILTY SAND (SM): Dark yellowish brown (10YR 4/6), stiff, moist, 70% fine sand, 30% silt, low plasticity	
5								
6				63	0	NO		
7								
8					0	NO		
9								
10				67				
11								
12					0	NO	SANDY SILT (ML): Yellowish brown (10YR 5/6), dense, moist, 30% very fine sand, 70% silt	
13								
14				63				
15					0	NO	SILTY SAND (SM): Yellowish brown (10YR 5/8), loose, moist to wet, 80% fine rounded sand, 20% silt, trace clay	
							VOLCANIC ASH: Yellowish brown (10YR 5/6), wet, very deeply weatherd, friable, angular 0.5" clasts of ash in clayey matrix, 1.5" thick hard ash layer at 15.5'	
16								Backfilled 1/30/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**SP-14**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/30/2013 12:00	FINISHED: 1/30/2013 12:30	
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:	
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 16	
SAMPLING METHOD: Continuous Core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:	
HAMMER WEIGHT:	DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside of building
0					0	NO	CONCRETE	
1							GRAVEL SANDY SILT (ML): Dark yellowish brown (10YR 4/6), stiff, moist, 30% fine sand, 70% silt	
2	SP-14-2			75	0	NO		
3								
4					0	NO		
5								
6				63	0	NO		
7							SILTY SAND (SM): Yellowish brown (10YR 5/4), soft, moist to wet, 75% fine sand, 25% silt, low plasticity, trace fine clast gravel rounded	
8					0	NO		
9								
10				54				
11								
12					0	NO		
13								
14				60	0	NO	VOLCANIC ASH: Light yellowish brown (10YR 6/4), hard, wet, friable, weak, clay rich matrix	
15								
16					0	NO		Backfilled 1/30/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**SP-15**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/30/2013 14:13	FINISHED: 1/30/2013 15:15	
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:	
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 12	
SAMPLING METHOD: Continuous Core - dual tube	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:	
HAMMER WEIGHT: / DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia	

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside of building
0							CONCRETE	
							GRAVEL: no odor	
1					2	Faint	SANDY SILT (ML): Dark yellowish brown (10YR 3/4), stiff, moist, 30% fine sand, 70% silt, faint petroleum / solvent odor	
2	SP-15-2							
							SANDY SILT (ML): Yellowish brown (10YR 5/6), stiff, moist, 30% fine sand, 70% silt	
3					0	Faint		
4								
5							SILTY SAND (SM): Yellowish brown (10YR 5/4), stiff, moist, 60% fine sand, 40% silt	
				50	1	Faint		
6	SP-15-6							
7								
8					0	NO		
9								
10				67	0	NO	VOLCANIC ASH: Dark yellowish brown (10YR 4/6), very stiff, dry to moist, very deeply weathered, friable	
11								Refusal at 12'
					0	NO	VOLCANIC ASH: Mottled very pale brown (10YR 7/4) and yellowish brown (10YR 5/4), very stiff, dry to moist, very deeply weathered	
12								Backfilled 1/30/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**	**SP-16**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/31/2013 08:49	FINISHED: 1/31/2013 09:10
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:	
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 16
SAMPLING METHOD: Continuous Core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:
HAMMER WEIGHT:	DROP [in]:	LOGGED BY: RLN / PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside of building
0					0	NO	CONCRETE	
1							GRAVEL SANDY SILT (ML): Dark yellowish brown (10YR 4/6), soft, wet to ~2', moist below 2', 30% fine sand, 70% silt	
2	SP-16-2			67	0	NO		
3								
4					0	NO		
5				50				
6					0	NO	sandy silt becomes stiff by 6'	
7				83				
8					0	NO		
9				83	0	NO	SILTY SAND (SM): Dark yellowish brown (10YR 4/6), loose, moist, 80% fine rounded sand, 20% silt	
10								
11				75				
12					0	NO	VOLCANIC ASH: Light yellowish brown (10YR 6/4), soft, moist, deeply weathered, friable, weak	
13				100				
14					0	NO		
15				100				
16								Backfilled 1/31/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**SP-17**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/31/2013 10:48	FINISHED: 1/31/2013 11:20	
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:	
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 16	
SAMPLING METHOD: Continuous Core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:	
HAMMER WEIGHT:	DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside building
0					0	NO	CONCRETE	
1							GRAVEL: no odor	
					1	Faint	SANDY SILT (ML): Dark yellowish brown (10YR 4/6), soft, wet, 40% fine sand, 60% silt	
2	SP-17-2			86				
3							SANDY SILT (ML): Dark yellowish brown (10YR 4/6), stiff, moist, 30% fine sand, 70% silt	
4					0	NO		
5				83				
6					0	NO		
7				83				
8					0	NO	sand coarsens with depth	
9				83				
10					0	NO		
11				75				
12					0	NO	SILTY SAND (SM): Yellowish brown (10YR 4/4), dense, moist, 30% fine gravel, 50% fine sand, 30% silt	
13				92				
14					0	NO	1" welded tuff layer at 13.8'	
							VOLCANIC ASH: Mottled dark yellowish brown (10YR 3/4) and brownish yellow (10YR 5/4), moist, very deeply weathered, friable, weak	
15								
16								Backfilled 1/31/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**SP-18**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/30/2013 11:20	FINISHED: 1/30/2013 11:55	
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:	
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 16	
SAMPLING METHOD: Continuous Core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:	
HAMMER WEIGHT: / DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia	

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside of building
0							CONCRETE	
							GRAVEL	
1					0	NO	SILTY SAND (SM): Very dark grayish brown (10YR 4/2), loose, moist, 80% fine sand, 20% silt, low plasticity	
2	SP-18-2			71	0	NO	SANDY SILT (ML): Dark yellowish brown (10YR 4/6), medium stiff to soft, moist, 40% fine sand, 60% silt	
3					0	NO		
4								
5					0	NO		
6				63			SANDY SILT (ML): Yellowish brown (10YR 5/4), stiff, moist, 40% very fine to fine sand, 60% silt	
7					0	NO		
8								
9					0	NO		
10				58			SANDY SILT (ML): Dark yellowish brown (10YR 4/6), medium stiff to soft, moist, 30% fine sand, 70% silt	
11								
12				63	0	NO		
13								
14				63	0	NO	SANDY SILT (ML): Mottled brownish yellow (10YR 6/6) and yellowish brown (10YR 5/6), medium stiff, moist, 30% very fine sand, light iron stain	
15								
16					0	NO		Backfilled 1/30/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**SP-19**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/30/2013 15:15	FINISHED: 1/30/2013 15:45	
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:	
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 16	
SAMPLING METHOD: Continuous Core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:	
HAMMER WEIGHT:	DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside of building
0							CONCRETE	
					2	Faint	GRAVEL: faint odor in gravel	
1	SP-19-1				1	Faint	SANDY SILT (ML): Very dark grayish brown (10YR 3/2), stiff, moist, 40% fine to very fine sand, 60% silt	
2	SP-19-2			90	0	NO		
3							color change to dark yellowish brown (10YR 4/6)	
4					0	NO		
5				83				
6					0	NO	color change to yellow brown (10YR 5/4) at 6'	
7				83				
8					0	NO	SILTY SAND (SM): Dark yellowish brown (10YR 4/6), loose, moist, 80% fine sand, 20% silt	
9				75				
10					0	NO	VOLCANIC ASH: Brownish yellow (10YR 6/6), moist, very deeply weathered, clay rich matrix, friable, weak	
					0	NO		
11				75				
12					0	NO		
13				83				
14					0	NO		
15				75				
16								Backfilled 1/31/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**	**SP-20**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/31/2013 08:20	FINISHED: 1/31/2013 08:42
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:	
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 16
SAMPLING METHOD: Continuous Core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:
HAMMER WEIGHT: / DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside of building
0					0	NO	CONCRETE	
1							GRAVEL	
2	SP-20-2			67			SANDY SILT (ML): Dark yellowish brown (10YR 4/4), soft, wet to 2', moist below 2', 30% fine to very fine sand, 70% silt	
3					0	NO		
4								
5				83			SANDY SILT (ML): Yellowish brown (10YR 5/6), medium stiff to stiff, moist, 25% very fine to fine sand, 75% silt	
6					0	NO		
7				83				
8					0	NO	SILTY SAND (SM): Dark yellowish brown (10YR 4/6), loose, moist, 80% fine sand, 20% silt	
9				75				
10					0	NO		
11				75				
12					0	NO		
13				100				
14					0	NO	VOLCANIC ASH: Light yellowish brown (2.5Y 6/3), moist, very deeply weathered, friable, weak, clay rich matrix	Hand drilling at 14'
15				100				
16					0	NO		Backfilled 1/31/13 by WD

PROJECT: **Byron Power Co.** 4901 Bruns Road, Byron, CA	**BORING LOG**		**SP-21**
DRILLING CONTRACTOR: Woodward Drilling	STARTED: 1/31/2013 11:30	FINISHED: 1/31/2013 12:00	
DRILLER'S NAME: Juan & Carlos	NORTHING:	EASTING:	
DRILLING METHOD: Direct Push	COORD SYSTEM/DATUM:		
DRILLING EQUIPMENT: AMS Power Probe 9500	HOLE DIAMETER [in]: 2	TOTAL DEPTH [ft]: 12	
SAMPLING METHOD: Continuous Core	DEPTH TO WATER [ft]:	CASING DEPTH [ft]:	
HAMMER WEIGHT: / DROP [in]:	LOGGED BY: RLN	PROJECT MANAGER: Eric Garcia	

DEPTH [feet]	SAMPLES: Sample ID	Sample	Blows/ 6 in.	Recovery [%]	PID Reading	Odor	LITHOLOGIC DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
							Surface Elevation:	Conditions: inside of building
0					0	NO	CONCRETE	
							GRAVEL	
1					0	Faint	SANDY SILT (ML): Dark yellowish brown (10YR 4/4), soft, moist, 30% fine to very fine sand, 70% silt	
2	SP-21-2			86	0	NO		
3								
4					0	NO		
5				75				
6					0	NO		
7				92				
8					0	NO	SILTY SAND (SM): Dark yellowish brown (10YR 4/6), loose, moist, 80% fine to very fine sand, 20% silt	
9				83				
10					0	NO	VOLCANIC ASH: Light yellowish brown (2.5Y 6/3), moist, very deeply weathered, friable, weak clay rich matrix	
11				83				Refusal at 12'
12								Backfilled 1/31/13 by WD

APPENDIX C
FIELD DATA SHEETS

FIELD LOGS

Fourth Quarter 2012 Groundwater Monitoring & Sampling Event

Phase II Subsurface Site Investigation

Byron Power Company
4901 Bruns Road
Byron, California

12/28/2012
Quest GSM Project# G09212012-02

QUEST GSM
QUEST GEOSYSTEMS MANAGEMENT
Environmental & Engineering Geology SerServices
"Your Environmental Compliance Partner"

11275 Sunrise Gold Circle, Suite R
Rancho Cordova, CA 95742
(925) 756-1210 Office
(925) 756-1227 Fax
Internet - http://www.questgsm.com/

MONITORING WELL ELEVATION FIELD DATA

Monitoring Well Identification	Well Head Elevation (Feet ± 0.01)	Depth to Groundwater (Feet ± 0.01)	Groundwater Elevation (Feet ± 0.01)
MW.01	110.83	21.50	89.33
MW.02	107.03	18.27	88.76
MW.03	106.92	20.19	86.73
MW.04	104.02	17.55	86.47

Guaged By R. Nelson

Signature Richard Nelson

Date 12-28-2012

Quest GSM

Byron Power Co.

WELL GAUGING/PURGING CALCULATIONS
DATA SHEET

Date:	Job No.:	Location:
12/28/2012	G0921 2012-02	Byron Pwr Co

Tech(s):	Drums on Site @ TOA/TOD	Total number of DRUMS used for this event
Robert Nelson	Soil: Water:	Soil: Water:

Well No.	Diameter (in)	DTB (ft)	DTW (ft)	ST (ft)	CV (gal)	PV (gal)	SPL (ft)	Notes Time
MW-4	2"	27.84	17.55	10.29	1.65	4.93	0	9:46
MW-1	2"	30.18	21.50	8.68	1.39	4.17	0	9:50
MW3	2"	26.38	20.19	6.19	0.99	2.97	0	9:54
MW-2	2"	30.58	18.27	12.31	1.97	5.91	0	10:00

Explanation:
DTB = Depth to Bottom
DTW = Depth to Water
ST = Saturated Thickness (DTB-DTW) must be > 1 foot
CV = Casing Volume (ST x cf)
PV = Purge Volume (standard 3 x CV, well development 10 x CV)
SPL = Thickness of Separate Phase Liquid

Conversion Factors (cf)
2-inch diameter well cf = 0.16 gal/ft
4-inch diameter well cf = 0.65 gal/ft
6-inch diameter well cf = 1.44 gal.ft

Field Form A

GSM
QUEST GEOSYSTEMS MANAGEMENT

11275 Sunrise Gold Circle, Suite R
Rancho Cordova, CA 95742
(925) 756-1210 Office
(925) 756-1227 Fax
Internet - http://www.questgsm.com/

FLUID SAMPLE COLLECTION LOG

PROJECT DATA

PROJECT NAME: Byron Power Company
PROJECT NUMBER: G09212012-02
PROJECT MANAGER: Eric W. Garcia
DATE: 12/28/2012
SAMPLE LOCATION ID: MW.01
SAMPLER: Robert L. Nelson

WELL CONSTRUCTION DATA

CASING DIAMETER
- ☒ 2"
- ☐ 4"
- ☒ ~~Other: 3/4"~~ RN

WELL VOLUMES PER UNIT

Well Casing	Gal/ft.
3/4	0.0229
2.0	0.1632
4.0	0.6528
6.0	1.490

SAMPLE TYPE
- ☒ Groundwater
- ☐ Surface Water
- ☐ Treatment Influent
- ☐ Treatment Effluent
- ☐ Other

FLUID LEVEL DATA

DEPTH TO PRODUCT: —
DEPTH OF WELL: 30.18
DEPTH TO WATER: 21.50
PRODUCT THICKNESS: 0
WATER COLUMN: 8.68
WELL CASING VOLUME: 1.39
MINIMUM PURGE VOLUME (3 OR 4 WCV):
ACTUAL VOL. PURGED: 4.0

WATER QUALITY

TIME	VOL (GAL)	PH	COND (mS/cm or µS/cm)	TURB (NTU)	DO (mg/L)	TEMP. (°F/°C)	SAL (%)	TDS (mg/L)	ORP (mV)	OTHER
1139	1.0	8.06	2678		6.37	18.68			43.6	
1141	2.0	7.83	2611		5.00	20.15			49.9	
1143	3.0	7.78	2612		4.58	20.41			51.5	
1325	4.0	7.83	3301		6.70	20.30			47.8	

PURGE METHOD

- ☐ Pump (Disp/Sub)
- ☒ Bailer (Tef/PVC/SS/Disp)
- ☐ Other:
- ☐ Peristaltic

SAMPLE METHOD

- ☒ Bailer (Tef/PVC/SS/Disp)
- ☐
- ☐ Dedicated
- ☐ Other:

SAMPLES COLLECTED

	ID	TIME	DATE	LAB	ANALYTES
SAMPLE	MW.01	1325	12/28/2012	McCampbell Analytical	TPH-MR, VOC's, SVOC's
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS:
Well dry at 3.5 gallons (1145) ; ∇ = 21.45 @ 1320

SAMPLER: Robert L Nelson
PROJECT MANAGER:

GSM
QUEST GEOSYSTEMS MANAGEMENT

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Rancho Cordova, CA 95742
(925) 756-1210 Office
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Internet - http://www.questgsm.com/

FLUID SAMPLE COLLECTION LOG

PROJECT DATA

PROJECT NAME: Byron Power Company
DATE: 12/28/2012
PROJECT NUMBER: G09212012-02
SAMPLE LOCATION ID: MW.02
PROJECT MANAGER: Eric W. Garcia
SAMPLER: Robert L. Nelson

WELL CONSTRUCTION DATA

CASING DIAMETER
- ■ 2"
- ☐ 4"
- ■ Other: 3/4"

WELL VOLUMES PER UNIT

Well Casing	Gal/ft.
3/4	0.0229
2.0	0.1632
4.0	0.6528
6.0	1.490

SAMPLE TYPE
- ■ Groundwater
- ☐ Surface Water
- ☐ Treatment Influent
- ☐ Treatment Effluent
- ☐ Other

FLUID LEVEL DATA

DEPTH TO PRODUCT: 0
PRODUCT THICKNESS: 0
MINIMUM PURGE VOLUME
DEPTH OF WELL: 30.58
WATER COLUMN: 12.31
(3 OR 4 WCV): 6
DEPTH TO WATER: 18.27
WELL CASING VOLUME: 1.97
ACTUAL VOL. PURGED: 8.0

WATER QUALITY

TIME	VOL (GAL)	PH	COND. (mS/cm µS/cm)	TURB (NTU)	DO (mg/L)	TEMP. (°F °C)	SAL (%)	TDS (mg/L)	ORP (mV)	OTHER
12:05	2.0	7.93	3676		6.67	18.41			50.8	
12:08	4.0	7.18	5471		3.18	19.62			66.4	
12:11	6.0	6.96	6357		3.25	19.55			78.9	
12:17	7.0	7.03	5650		3.76	19.61			79.1	
12:25	8.0	6.99	5780		3.54	19.69			80.1	

PURGE METHOD

- ☐ Pump (Disp/Sub)
- ■ Baller (Tef/PVC/SS/Disp)
- ☐ Other:
- ☐ Peristaltic

SAMPLE METHOD

[illegible]

SAMPLES COLLECTED

	ID	TIME	DATE	LAB	ANALYTES
SAMPLE	MW.02	1230	12/28/2012	McCampbell Analytical	[illegible]
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS:

SAMPLER: Robert L. Nelson
PROJECT MANAGER:

GSM
QUEST GEOSYSTEMS MANAGEMENT

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Rancho Cordova, CA 95742
(925) 756-1210 Office
(925) 756-1227 Fax
Internet - http://www.questgsm.com/

FLUID SAMPLE COLLECTION LOG

PROJECT DATA

PROJECT NAME: Byron Power Company
PROJECT NUMBER: G09212012-02
PROJECT MANAGER: Eric W. Garcia
DATE: 12/28/2012
SAMPLE LOCATION ID: MW.03
SAMPLER: Robert Nelson

WELL CONSTRUCTION DATA

CASING DIAMETER
- ■ 2"
- ☐ 4"
- ☐ Other: 3/4"

WELL VOLUMES PER UNIT

Well Casing	Gal/ft.
3/4	0.0229
2.0	0.1632
4.0	0.6528
6.0	1.490

SAMPLE TYPE
- ■ Groundwater
- ☐ Surface Water
- ☐ Treatment Influent
- ☐ Treatment Effluent
- ☐ Other

FLUID LEVEL DATA

DEPTH TO PRODUCT: ____
DEPTH OF WELL: 26.38
DEPTH TO WATER: 20.19
PRODUCT THICKNESS: 0
WATER COLUMN: 6.19
WELL CASING VOLUME: 1.0
MINIMUM PURGE VOLUME (3 OR 4 WCV): ____
ACTUAL VOL. PURGED: ____

WATER QUALITY

TIME	VOL (GAL)	PH	COND (mS/cm - µS/cm)	TURB (NTU)	DO (mg/L)	TEMP. (°F - C)	SAL (%)	TDS (mg/L)	ORP (mV)	OTHER
1307	1.0	6.70	44550		5.72	18.46			81.9	
1310	2.0	6.66	45210		4.42	20.17			98.2	
1343	3.0	6.53	44661		5.82	19.46			135.0	

PURGE METHOD

- ☐ Pump (Disp/Sub)
- ☐ Other:
- ■ Bailer (Tef/PVC/SS/Disp)
- ☐ Peristaltic

SAMPLE METHOD

- ■ Bailer (Tef/PVC/SS/Disp)
- ☐ Dedicated
- ☐
- ☐ Other:

SAMPLES COLLECTED

	ID	TIME	DATE	LAB	ANALYSES
SAMPLE	MW.03	1350	12/28/2012	McCampbell Analytical	TPH-GRO, VOC's, SVOC's
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS:
Purged 3 Gallons (1310) ▽ = 20.49 at 1343

SAMPLER: Robert T. Nelson
PROJECT MANAGER:

GSM
QUEST GEOSYSTEMS MANAGEMENT

11275 Sunrise Gold Circle, Suite R
Rancho Cordova, CA 95742
(925) 756-1210 Office
(925) 756-1227 Fax
Internet - http://www.questgsm.com/

FLUID SAMPLE COLLECTION LOG

PROJECT DATA

PROJECT NAME: Byron Power Company
DATE: 12/28/2012
PROJECT NUMBER: G09212012-02
SAMPLE LOCATION ID: MW.04
PROJECT MANAGER: Eric W. Garcia
SAMPLER: Robert Nelson

WELL CONSTRUCTION DATA

CASING DIAMETER
- ☒ 2"
- ☐ 4"
- ☐ Other: 3/4"

WELL VOLUMES PER UNIT

Well Casing	Gal/ft.
3/4	0.0229
2.0	0.1632
4.0	0.6528
6.0	1.490

SAMPLE TYPE
- ☒ Groundwater
- ☐ Surface Water
- ☐ Treatment Influent
- ☐ Treatment Effluent
- ☐ Other

FLUID LEVEL DATA

DEPTH TO PRODUCT: ____
PRODUCT THICKNESS: 0
MINIMUM PURGE VOLUME (3 OR 4 WCV): 3
DEPTH OF WELL: 27.84
WATER COLUMN: 10.29
DEPTH TO WATER: 17.55
WELL CASING VOLUME: 1.65
ACTUAL VOL. PURGED: 6.0

WATER QUALITY

TIME	VOL (GAL)	PH	COND. (mS/cm (µS/cm))	TURB (NTU)	DO (mg/L)	TEMP. (°F/°C)	SAL (%)	TDS (mg/L)	ORP (mV)	OTHER
1040	1.5	7.40	3391		11.36	18.74			108.2	
1045	3.0	7.60	3429		5.96	20.05			94.1	
1050	4.0	7.54	3593		5.83	20.49			85.8	
1056	5.6	7.32	3654		6.74	20.24			84.1	
1105	6.0	7.50	3612		6.73	20.31			83.2	

PURGE METHOD

- ☐ Pump (Disp/Sub)
- ☐ [illegible]
- ☒ Bailer (Tef/PVC/SS/Disp)
- ☐ Peristaltic

SAMPLE METHOD

- ☐ [illegible]sp)
- ☐ Dedicated
- ☐
- ☐ Other:

SAMPLES COLLECTED

	ID	TIME	DATE	LAB	ANALYTES
SAMPLE	MW.04	1110	12/28/2012	[illegible]	TPH(D), VOC's, SVOC's
DUPLICATE					
SPLIT					
FIELD BLANK					

COMMENTS:

SAMPLER: Robert L. Nelson
PROJECT MANAGER: Eric Garcia

APPENDIX D
CERTIFIED ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Quest GeoSystems Management	Client Project ID: #G09212012-02; Byron Power Company	Date Sampled: 12/07/12
		Date Received: 12/07/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Reported: 12/17/12
Rancho Cordova, CA 95742	Client P.O.:	Date Completed: 12/17/12

WorkOrder: 1212191

December 17, 2012

Dear Eric:

Enclosed within are:

1) The results of the **3** analyzed samples from your project: **#G09212012-02; Byron Power Company,**
2) QC data for the above samples, and
3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

121291

CHAIN OF CUSTODY RECORD

GSM
QUEST GEOSYSTEMS MANAGEMENT
11275 Sunrise Gold Circle, Suite R,
Rancho Cordova, California 95742

PROJECT REPORTING
Company: Quest GeoSystems Management, Inc.
Attention: Mr. Eric W. Garcia — Phone: (925) 756-1210 — Fax: (925) 756-1227
Address: 11275 Sunrise Gold Cir, Suite R, Rancho Cordova, CA 95742
Email: ericgarcia@questgsm.com

PROJECT BILLING
Company: Quest GeoSystems Management, Inc.
Attention: Mr. Eric W. Garcia — Phone: (925) 756-1210 — Fax: (925) 756-1227
Address: 11275 Sunrise Gold Cir, Suite R, Rancho Cordova, CA 95742
Email: ericgarcia@questgsm.com

Project Name: Byron Power Company
Project Number: G09212012-02
Project Location: 4901 Bruns Road Byron, California
Sampler Signature:

TURN AROUND TIME: RUSH ☐ 24 HOUR ☐ 48 HOUR ☐ 5 DAY ☒ OTHER: ☐
EDF Required? YES ☒ NO ☐

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# of Containers	Type of Containers	MATRIX: Water	soil	Air	Sludge	Other	PRESERVATION METHOD: Ice	HCl	HNO3	Other	ANALYSIS REQUEST: TPH-MR - 8015	VOC's - 8260B	Phenol, ~~PAH/PNAs~~ + - 8270 ~~SIM~~ FullSVOCs	LUFT 5	CAM17	% Moisture	RCI (Reactivity, Corrosivity, Ignitability)	Asbestos (CARB/PLM)	COMMENTS
SI.01		120712	1116	1	SS				X		X				X	X	X		X	X			
SI.02		↓	1111	1	SS				X		X				X	X	X		X	X			
SCALE		↓	1106	1	SS					X	X				X	X	X		X		X	X	
~~TRIP~~	---	---	---	2	VOA	X					X	X											

Ice X 3.9

Relinquished By: — Date: 120712 — Time: 1245 — Received By:
Relinquished By: — Date: — Time: — Received By:

Remarks:
GOOD CONDITION ____ APPROPRIATE
HEAD SPACE ABSENT ____ CONTAINERS ____
DECHLORINATED IN LAB ____ PRESERVED IN LAB ____
PRESERVATION: VOAS | O&G | METALS | OTHER

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1212191 **ClientCode: QGSM**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☑ J-flag

Report to:
Eric Garcia
Quest GeoSystems Management
11275 Sunrise Gold Cir., Ste. R
Rancho Cordova, CA 95742
(925) 756-1210 FAX: (925) 756-1227

Email: eric.garcia@questgsm.com
cc:
PO:
ProjectNo: #G09212012-02; Byron Power Company

Bill to:
Lexie Hinds
Quest GeoSystems Management
98 Daisyfield Drive
Livermore, CA 94551
lexiehinds@yahoo.com

Requested TAT: **5 days**

Date Received: **12/07/2012**
Date Printed: **12/07/2012**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1212191-001	Si.01	Soil	12/7/2012 11:16	☐	A	A		A	A	A	A					
1212191-002	Si.02	Soil	12/7/2012 11:11	☐	A	A		A	A	A						
1212191-003	SCALE	Soil	12/7/2012 11:06	☐	A	A	A	A	A			A				

Test Legend:

1	8260B_S	2	8270D_S	3	ASBEST400 (435 CARB)_S	4	CAM17MS_S	5	G-MBTEX_S
6	Moisture_S	7	PREDF REPORT	8	ReactS_S	9		10	
11		12							

The following SampIDs: 001A, 002A, 003A contain testgroup.

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: **Quest GeoSystems Management**
Date and Time Received: **12/7/2012 3:28:47 PM**

Project Name: **#G09212012-02; Byron Power Company**
LogIn Reviewed by: Maria Venegas

WorkOrder N°: **1212191** Matrix: Soil
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 3.9°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Comments:

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Quest GeoSystems Management	Client Project ID: #G09212012-02; Byron Power Company	Date Sampled: 12/07/12
		Date Received: 12/07/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/07/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/11/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212191

Lab ID	1212191-001A
Client ID	Si.01
Matrix	Soil

Compound	Conc. *	DF	MDL	RL	Compound	Conc. *	DF	MDL	RL
Acetone	ND	1.0	0.039	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.001	0.005
Benzene	ND	1.0	0.0016	0.005	Bromobenzene	ND	1.0	0.0017	0.005
Bromochloromethane	ND	1.0	0.0015	0.005	Bromodichloromethane	ND	1.0	0.0012	0.005
Bromoform	ND	1.0	0.0008	0.005	Bromomethane	ND	1.0	0.002	0.005
2-Butanone (MEK)	0.0076,J	1.0	0.0054	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.0053	0.05
n-Butyl benzene	ND	1.0	0.0035	0.005	sec-Butyl benzene	ND	1.0	0.0034	0.005
tert-Butyl benzene	ND	1.0	0.003	0.005	Carbon Disulfide	0.016	1.0	0.0017	0.005
Carbon Tetrachloride	ND	1.0	0.0017	0.005	Chlorobenzene	ND	1.0	0.0018	0.005
Chloroethane	ND	1.0	0.0016	0.005	Chloroform	ND	1.0	0.0016	0.005
Chloromethane	ND	1.0	0.0017	0.005	2-Chlorotoluene	ND	1.0	0.0022	0.005
4-Chlorotoluene	ND	1.0	0.0021	0.005	Dibromochloromethane	ND	1.0	0.0011	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.0012	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.0013	0.004
Dibromomethane	ND	1.0	0.0014	0.005	1,2-Dichlorobenzene	ND	1.0	0.0014	0.005
1,3-Dichlorobenzene	ND	1.0	0.0018	0.005	1,4-Dichlorobenzene	ND	1.0	0.0018	0.005
Dichlorodifluoromethane	ND	1.0	0.0011	0.005	1,1-Dichloroethane	ND	1.0	0.0017	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.0014	0.004	1,1-Dichloroethene	ND	1.0	0.0017	0.005
cis-1,2-Dichloroethene	ND	1.0	0.0015	0.005	trans-1,2-Dichloroethene	ND	1.0	0.0016	0.005
1,2-Dichloropropane	ND	1.0	0.0014	0.005	1,3-Dichloropropane	ND	1.0	0.0016	0.005
2,2-Dichloropropane	ND	1.0	0.0013	0.005	1,1-Dichloropropene	ND	1.0	0.0018	0.005
cis-1,3-Dichloropropene	ND	1.0	0.0015	0.005	trans-1,3-Dichloropropene	ND	1.0	0.0014	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.0014	0.005	Ethylbenzene	ND	1.0	0.002	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.0013	0.005	Freon 113	ND	1.0	0.0016	0.1
Hexachlorobutadiene	ND	1.0	0.005	0.005	Hexachloroethane	ND	1.0	0.0025	0.005
2-Hexanone	ND	1.0	0.0025	0.005	Isopropylbenzene	ND	1.0	0.0022	0.005
4-Isopropyl toluene	ND	1.0	0.0031	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.0013	0.005
Methylene chloride	0.0044,J	1.0	0.0036	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.0008	0.005
Naphthalene	0.0023,J	1.0	0.0006	0.005	n-Propyl benzene	ND	1.0	0.0029	0.005
Styrene	ND	1.0	0.0014	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.0016	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.0013	0.005	Tetrachloroethene	ND	1.0	0.0023	0.005
Toluene	0.0058	1.0	0.0022	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.0007	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.0011	0.005	1,1,1-Trichloroethane	ND	1.0	0.0018	0.005
1,1,2-Trichloroethane	ND	1.0	0.0016	0.005	Trichloroethene	ND	1.0	0.0017	0.005
Trichlorofluoromethane	ND	1.0	0.0016	0.005	1,2,3-Trichloropropane	ND	1.0	0.0019	0.005
1,2,4-Trimethylbenzene	0.0035,J	1.0	0.0024	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.0027	0.005
Vinyl Chloride	ND	1.0	0.0015	0.005	Xylenes, Total	ND	1.0	0.0025	0.005

Surrogate Recoveries (%)

%SS1:	110	%SS2:	114
%SS3:	124		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

J) analyte detected below quantitation limits

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Quest GeoSystems Management	Client Project ID: #G09212012-02; Byron Power Company	Date Sampled: 12/07/12
		Date Received: 12/07/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/07/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/11/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212191

Lab ID	1212191-002A
Client ID	Si.02
Matrix	Soil

Compound	Conc. *	DF	MDL	RL	Compound	Conc. *	DF	MDL	RL
Acetone	0.15	2.0	0.039	0.05	tert-Amyl methyl ether (TAME)	ND<0.0020	2.0	0.001	0.005
Benzene	ND<0.0032	2.0	0.0016	0.005	Bromobenzene	ND<0.0034	2.0	0.0017	0.005
Bromochloromethane	ND<0.0030	2.0	0.0015	0.005	Bromodichloromethane	ND<0.0024	2.0	0.0012	0.005
Bromoform	ND<0.0016	2.0	0.0008	0.005	Bromomethane	ND<0.0040	2.0	0.002	0.005
2-Butanone (MEK)	0.012,J	2.0	0.0054	0.02	t-Butyl alcohol (TBA)	ND<0.011	2.0	0.0053	0.05
n-Butyl benzene	ND<0.0070	2.0	0.0035	0.005	sec-Butyl benzene	ND<0.0068	2.0	0.0034	0.005
tert-Butyl benzene	ND<0.0060	2.0	0.003	0.005	Carbon Disulfide	0.019	2.0	0.0017	0.005
Carbon Tetrachloride	ND<0.0034	2.0	0.0017	0.005	Chlorobenzene	ND<0.0036	2.0	0.0018	0.005
Chloroethane	ND<0.0032	2.0	0.0016	0.005	Chloroform	ND<0.0032	2.0	0.0016	0.005
Chloromethane	ND<0.0034	2.0	0.0017	0.005	2-Chlorotoluene	ND<0.0044	2.0	0.0022	0.005
4-Chlorotoluene	ND<0.0042	2.0	0.0021	0.005	Dibromochloromethane	ND<0.0022	2.0	0.0011	0.005
1,2-Dibromo-3-chloropropane	ND<0.0024	2.0	0.0012	0.004	1,2-Dibromoethane (EDB)	ND<0.0026	2.0	0.0013	0.004
Dibromomethane	ND<0.0028	2.0	0.0014	0.005	1,2-Dichlorobenzene	ND<0.0028	2.0	0.0014	0.005
1,3-Dichlorobenzene	ND<0.0036	2.0	0.0018	0.005	1,4-Dichlorobenzene	ND<0.0036	2.0	0.0018	0.005
Dichlorodifluoromethane	ND<0.0022	2.0	0.0011	0.005	1,1-Dichloroethane	ND<0.0034	2.0	0.0017	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.0028	2.0	0.0014	0.004	1,1-Dichloroethene	ND<0.0034	2.0	0.0017	0.005
cis-1,2-Dichloroethene	ND<0.0030	2.0	0.0015	0.005	trans-1,2-Dichloroethene	ND<0.0032	2.0	0.0016	0.005
1,2-Dichloropropane	ND<0.0028	2.0	0.0014	0.005	1,3-Dichloropropane	ND<0.0032	2.0	0.0016	0.005
2,2-Dichloropropane	ND<0.0026	2.0	0.0013	0.005	1,1-Dichloropropene	ND<0.0036	2.0	0.0018	0.005
cis-1,3-Dichloropropene	ND<0.0030	2.0	0.0015	0.005	trans-1,3-Dichloropropene	ND<0.0028	2.0	0.0014	0.005
Diisopropyl ether (DIPE)	ND<0.0028	2.0	0.0014	0.005	Ethylbenzene	0.043	2.0	0.002	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.0026	2.0	0.0013	0.005	Freon 113	ND<0.0032	2.0	0.0016	0.1
Hexachlorobutadiene	ND<0.010	2.0	0.005	0.005	Hexachloroethane	ND<0.0050	2.0	0.0025	0.005
2-Hexanone	ND<0.0050	2.0	0.0025	0.005	Isopropylbenzene	0.011	2.0	0.0022	0.005
4-Isopropyl toluene	0.0072,J	2.0	0.0031	0.005	Methyl-t-butyl ether (MTBE)	ND<0.0026	2.0	0.0013	0.005
Methylene chloride	ND<0.0072	2.0	0.0036	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.0016	2.0	0.0008	0.005
Naphthalene	0.16	2.0	0.0006	0.005	n-Propyl benzene	0.013	2.0	0.0029	0.005
Styrene	ND<0.0028	2.0	0.0014	0.005	1,1,1,2-Tetrachloroethane	ND<0.0032	2.0	0.0016	0.005
1,1,2,2-Tetrachloroethane	ND<0.0026	2.0	0.0013	0.005	Tetrachloroethene	ND<0.0046	2.0	0.0023	0.005
Toluene	0.0059,J	2.0	0.0022	0.005	1,2,3-Trichlorobenzene	ND<0.0014	2.0	0.0007	0.005
1,2,4-Trichlorobenzene	ND<0.0022	2.0	0.0011	0.005	1,1,1-Trichloroethane	ND<0.0036	2.0	0.0018	0.005
1,1,2-Trichloroethane	ND<0.0032	2.0	0.0016	0.005	Trichloroethene	ND<0.0034	2.0	0.0017	0.005
Trichlorofluoromethane	ND<0.0032	2.0	0.0016	0.005	1,2,3-Trichloropropane	ND<0.0038	2.0	0.0019	0.005
1,2,4-Trimethylbenzene	0.18	2.0	0.0024	0.005	1,3,5-Trimethylbenzene	0.089	2.0	0.0027	0.005
Vinyl Chloride	ND<0.0030	2.0	0.0015	0.005	Xylenes, Total	0.48	2.0	0.0025	0.005

Surrogate Recoveries (%)

%SS1:	114	%SS2:	111
%SS3:	124		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

J) analyte detected below quantitation limits

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Quest GeoSystems Management	Client Project ID: #G09212012-02; Byron Power Company	Date Sampled: 12/07/12
		Date Received: 12/07/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/07/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/10/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212191

Lab ID	1212191-003A
Client ID	SCALE
Matrix	Soil

Compound	Conc. *	DF	MDL	RL	Compound	Conc. *	DF	MDL	RL
Acetone	ND	1.0	0.039	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.001	0.005
Benzene	ND	1.0	0.0016	0.005	Bromobenzene	ND	1.0	0.0017	0.005
Bromochloromethane	ND	1.0	0.0015	0.005	Bromodichloromethane	ND	1.0	0.0012	0.005
Bromoform	ND	1.0	0.0008	0.005	Bromomethane	ND	1.0	0.002	0.005
2-Butanone (MEK)	ND	1.0	0.0054	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.0053	0.05
n-Butyl benzene	ND	1.0	0.0035	0.005	sec-Butyl benzene	ND	1.0	0.0034	0.005
tert-Butyl benzene	ND	1.0	0.003	0.005	Carbon Disulfide	ND	1.0	0.0017	0.005
Carbon Tetrachloride	ND	1.0	0.0017	0.005	Chlorobenzene	ND	1.0	0.0018	0.005
Chloroethane	ND	1.0	0.0016	0.005	Chloroform	ND	1.0	0.0016	0.005
Chloromethane	ND	1.0	0.0017	0.005	2-Chlorotoluene	ND	1.0	0.0022	0.005
4-Chlorotoluene	ND	1.0	0.0021	0.005	Dibromochloromethane	ND	1.0	0.0011	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.0012	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.0013	0.004
Dibromomethane	ND	1.0	0.0014	0.005	1,2-Dichlorobenzene	ND	1.0	0.0014	0.005
1,3-Dichlorobenzene	ND	1.0	0.0018	0.005	1,4-Dichlorobenzene	ND	1.0	0.0018	0.005
Dichlorodifluoromethane	ND	1.0	0.0011	0.005	1,1-Dichloroethane	ND	1.0	0.0017	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.0014	0.004	1,1-Dichloroethene	ND	1.0	0.0017	0.005
cis-1,2-Dichloroethene	ND	1.0	0.0015	0.005	trans-1,2-Dichloroethene	ND	1.0	0.0016	0.005
1,2-Dichloropropane	ND	1.0	0.0014	0.005	1,3-Dichloropropane	ND	1.0	0.0016	0.005
2,2-Dichloropropane	ND	1.0	0.0013	0.005	1,1-Dichloropropene	ND	1.0	0.0018	0.005
cis-1,3-Dichloropropene	ND	1.0	0.0015	0.005	trans-1,3-Dichloropropene	ND	1.0	0.0014	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.0014	0.005	Ethylbenzene	ND	1.0	0.002	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.0013	0.005	Freon 113	ND	1.0	0.0016	0.1
Hexachlorobutadiene	ND	1.0	0.005	0.005	Hexachloroethane	ND	1.0	0.0025	0.005
2-Hexanone	ND	1.0	0.0025	0.005	Isopropylbenzene	ND	1.0	0.0022	0.005
4-Isopropyl toluene	ND	1.0	0.0031	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.0013	0.005
Methylene chloride	ND	1.0	0.0036	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.0008	0.005
Naphthalene	ND	1.0	0.0006	0.005	n-Propyl benzene	ND	1.0	0.0029	0.005
Styrene	ND	1.0	0.0014	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.0016	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.0013	0.005	Tetrachloroethene	ND	1.0	0.0023	0.005
Toluene	ND	1.0	0.0022	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.0007	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.0011	0.005	1,1,1-Trichloroethane	ND	1.0	0.0018	0.005
1,1,2-Trichloroethane	ND	1.0	0.0016	0.005	Trichloroethene	ND	1.0	0.0017	0.005
Trichlorofluoromethane	ND	1.0	0.0016	0.005	1,2,3-Trichloropropane	ND	1.0	0.0019	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.0024	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.0027	0.005
Vinyl Chloride	ND	1.0	0.0015	0.005	Xylenes, Total	ND	1.0	0.0025	0.005

Surrogate Recoveries (%)

%SS1:	107	%SS2:	116
%SS3:	127		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

J) analyte detected below quantitation limits

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Quest GeoSystems Management	Client Project ID: #G09212012-02; Byron Power Company	Date Sampled: 12/07/12
		Date Received: 12/07/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/07/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/15/12

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8270C | Work Order: 1212191

Lab ID	1212191-001A
Client ID	Si.01
Matrix	Soil

Compound	Concentration *	DF	MDL	RL	Compound	Concentration *	DF	MDL	RL
Acenaphthene	ND<1.4	10	0.14	0.25	Acenaphthylene	ND<1.4	10	0.14	0.25
Acetochlor	ND<2.5	10	0.25	0.25	Anthracene	ND<1.4	10	0.14	0.25
Benzidine	ND<2.3	10	0.23	1.3	Benzoic Acid	ND<10	10	1.0	2.5
Benzo (a) anthracene	ND<1.4	10	0.14	0.25	Benzo (b) fluoranthene	ND<1.4	10	0.14	0.25
Benzo (k) fluoranthene	ND<1.6	10	0.16	0.25	Benzo (g,h,i) perylene	ND<1.5	10	0.15	0.25
Benzo (a) pyrene	ND<1.4	10	0.14	0.25	Benzyl Alcohol	ND<5.1	10	0.51	1.3
1,1-Biphenyl	ND<1.5	10	0.15	0.25	Bis (2-chloroethoxy) Methane	ND<1.4	10	0.14	0.25
Bis (2-chloroethyl) Ether	ND<1.3	10	0.13	0.25	Bis (2-chloroisopropyl) Ether	ND<1.2	10	0.12	0.25
Bis (2-ethylhexyl) Phthalate	ND<1.3	10	0.13	0.25	4-Bromophenyl Phenyl Ether	ND<1.6	10	0.16	0.25
Butylbenzyl Phthalate	ND<1.3	10	0.13	0.25	4-Chloroaniline	ND<1.3	10	0.13	0.25
4-Chloro-3-methylphenol	ND<1.2	10	0.12	0.25	2-Chloronaphthalene	ND<1.6	10	0.16	0.25
2-Chlorophenol	ND<1.4	10	0.14	0.25	4-Chlorophenyl Phenyl Ether	ND<1.5	10	0.15	0.25
Chrysene	ND<1.4	10	0.14	0.25	Dibenzo (a,h) anthracene	ND<1.6	10	0.16	0.25
Dibenzofuran	ND<1.3	10	0.13	0.25	Di-n-butyl Phthalate	ND<1.3	10	0.13	0.25
1,2-Dichlorobenzene	ND<1.2	10	0.12	0.25	1,3-Dichlorobenzene	ND<1.4	10	0.14	0.25
1,4-Dichlorobenzene	ND<1.3	10	0.13	0.25	3,3-Dichlorobenzidine	ND<1.2	10	0.12	0.5
2,4-Dichlorophenol	ND<1.3	10	0.13	0.25	Diethyl Phthalate	ND<1.4	10	0.14	0.25
2,4-Dimethylphenol	ND<1.3	10	0.13	0.25	Dimethyl Phthalate	ND<1.4	10	0.14	0.25
4,6-Dinitro-2-methylphenol	ND<1.3	10	0.13	1.3	2,4-Dinitrophenol	ND<13	10	1.3	6.3
2,4-Dinitrotoluene	ND<1.3	10	0.13	0.25	2,6-Dinitrotoluene	ND<1.4	10	0.14	0.25
Di-n-octyl Phthalate	ND<1.4	10	0.14	0.25	1,2-Diphenylhydrazine	ND<1.6	10	0.16	0.25
Fluoranthene	ND<1.3	10	0.13	0.25	Fluorene	ND<1.4	10	0.14	0.25
Hexachlorobenzene	ND<1.7	10	0.17	0.25	Hexachlorobutadiene	ND<1.5	10	0.15	0.25
Hexachlorocyclopentadiene	ND<7.3	10	0.73	1.3	Hexachloroethane	ND<1.4	10	0.14	0.25
Indeno (1,2,3-cd) pyrene	ND<1.4	10	0.14	0.25	Isophorone	ND<1.2	10	0.12	0.25
2-Methylnaphthalene	ND<1.4	10	0.14	0.25	2-Methylphenol (o-Cresol)	ND<1.4	10	0.14	0.25
3 &/or 4-Methylphenol (m,p-Cresol)	ND<1.2	10	0.12	0.25	Naphthalene	ND<1.3	10	0.13	0.25
2-Nitroaniline	ND<6.2	10	0.62	1.3	3-Nitroaniline	ND<5.9	10	0.59	1.3
4-Nitroaniline	ND<5.5	10	0.55	1.3	Nitrobenzene	ND<1.4	10	0.14	0.25
2-Nitrophenol	ND<6.4	10	0.64	1.3	4-Nitrophenol	ND<4.1	10	0.41	1.3
N-Nitrosodiphenylamine	ND<1.6	10	0.16	0.25	N-Nitrosodi-n-propylamine	ND<1.3	10	0.13	0.25
Pentachlorophenol	ND<0.61	10	0.061	1.3	Phenanthrene	ND<1.4	10	0.14	0.25
Phenol	ND<1.2	10	0.12	0.25	Pyrene	ND<1.3	10	0.13	0.25
1,2,4-Trichlorobenzene	ND<1.4	10	0.14	0.25	2,4,5-Trichlorophenol	ND<1.2	10	0.12	0.25
2,4,6-Trichlorophenol	ND<1.4	10	0.14	0.25					

Surrogate Recoveries (%)

%SS1:	91	%SS2:	87
%SS3:	74	%SS4:	76
%SS5:	53	%SS6:	86

Comments: a3

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

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Quest GeoSystems Management	Client Project ID: #G09212012-02; Byron Power Company	Date Sampled: 12/07/12
		Date Received: 12/07/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/07/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/15/12

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8270C | Work Order: 1212191

Lab ID	1212191-002A
Client ID	Si.02
Matrix	Soil

Compound	Concentration *	DF	MDL	RL	Compound	Concentration *	DF	MDL	RL
Acenaphthene	ND<2.8	20	0.14	0.25	Acenaphthylene	ND<2.8	20	0.14	0.25
Acetochlor	ND<5.0	20	0.25	0.25	Anthracene	ND<2.8	20	0.14	0.25
Benzidine	ND<4.6	20	0.23	1.3	Benzoic Acid	ND<20	20	1.0	2.5
Benzo (a) anthracene	ND<2.8	20	0.14	0.25	Benzo (b) fluoranthene	ND<2.8	20	0.14	0.25
Benzo (k) fluoranthene	ND<3.2	20	0.16	0.25	Benzo (g,h,i) perylene	ND<3.0	20	0.15	0.25
Benzo (a) pyrene	ND<2.8	20	0.14	0.25	Benzyl Alcohol	ND<10	20	0.51	1.3
1,1-Biphenyl	ND<3.0	20	0.15	0.25	Bis (2-chloroethoxy) Methane	ND<2.8	20	0.14	0.25
Bis (2-chloroethyl) Ether	ND<2.6	20	0.13	0.25	Bis (2-chloroisopropyl) Ether	ND<2.4	20	0.12	0.25
Bis (2-ethylhexyl) Phthalate	ND<2.6	20	0.13	0.25	4-Bromophenyl Phenyl Ether	ND<3.2	20	0.16	0.25
Butylbenzyl Phthalate	ND<2.6	20	0.13	0.25	4-Chloroaniline	ND<2.6	20	0.13	0.25
4-Chloro-3-methylphenol	ND<2.4	20	0.12	0.25	2-Chloronaphthalene	ND<3.2	20	0.16	0.25
2-Chlorophenol	ND<2.8	20	0.14	0.25	4-Chlorophenyl Phenyl Ether	ND<3.0	20	0.15	0.25
Chrysene	ND<2.8	20	0.14	0.25	Dibenzo (a,h) anthracene	ND<3.2	20	0.16	0.25
Dibenzofuran	ND<2.6	20	0.13	0.25	Di-n-butyl Phthalate	ND<2.6	20	0.13	0.25
1,2-Dichlorobenzene	ND<2.4	20	0.12	0.25	1,3-Dichlorobenzene	ND<2.8	20	0.14	0.25
1,4-Dichlorobenzene	ND<2.6	20	0.13	0.25	3,3-Dichlorobenzidine	ND<2.4	20	0.12	0.5
2,4-Dichlorophenol	ND<2.6	20	0.13	0.25	Diethyl Phthalate	ND<2.8	20	0.14	0.25
2,4-Dimethylphenol	ND<2.6	20	0.13	0.25	Dimethyl Phthalate	ND<2.8	20	0.14	0.25
4,6-Dinitro-2-methylphenol	ND<2.6	20	0.13	1.3	2,4-Dinitrophenol	ND<26	20	1.3	6.3
2,4-Dinitrotoluene	ND<2.6	20	0.13	0.25	2,6-Dinitrotoluene	ND<2.8	20	0.14	0.25
Di-n-octyl Phthalate	ND<2.8	20	0.14	0.25	1,2-Diphenylhydrazine	ND<3.2	20	0.16	0.25
Fluoranthene	ND<2.6	20	0.13	0.25	Fluorene	ND<2.8	20	0.14	0.25
Hexachlorobenzene	ND<3.4	20	0.17	0.25	Hexachlorobutadiene	ND<3.0	20	0.15	0.25
Hexachlorocyclopentadiene	ND<15	20	0.73	1.3	Hexachloroethane	ND<2.8	20	0.14	0.25
Indeno (1,2,3-cd) pyrene	ND<2.8	20	0.14	0.25	Isophorone	ND<2.4	20	0.12	0.25
2-Methylnaphthalene	ND<2.8	20	0.14	0.25	2-Methylphenol (o-Cresol)	ND<2.8	20	0.14	0.25
3 &/or 4-Methylphenol (m,p-Cresol)	ND<2.4	20	0.12	0.25	Naphthalene	ND<2.6	20	0.13	0.25
2-Nitroaniline	ND<12	20	0.62	1.3	3-Nitroaniline	ND<12	20	0.59	1.3
4-Nitroaniline	ND<11	20	0.55	1.3	Nitrobenzene	ND<2.8	20	0.14	0.25
2-Nitrophenol	ND<13	20	0.64	1.3	4-Nitrophenol	ND<8.2	20	0.41	1.3
N-Nitrosodiphenylamine	ND<3.2	20	0.16	0.25	N-Nitrosodi-n-propylamine	ND<2.6	20	0.13	0.25
Pentachlorophenol	ND<1.2	20	0.061	1.3	Phenanthrene	ND<2.8	20	0.14	0.25
Phenol	ND<2.4	20	0.12	0.25	Pyrene	ND<2.6	20	0.13	0.25
1,2,4-Trichlorobenzene	ND<2.8	20	0.14	0.25	2,4,5-Trichlorophenol	ND<2.4	20	0.12	0.25
2,4,6-Trichlorophenol	ND<2.8	20	0.14	0.25					

Surrogate Recoveries (%)

%SS1:	108	%SS2:	100
%SS3:	84	%SS4:	88
%SS5:	50	%SS6:	95

Comments: a3

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

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Quest GeoSystems Management	Client Project ID: #G09212012-02; Byron Power Company	Date Sampled: 12/07/12
		Date Received: 12/07/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/07/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/14/12

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8270C | Work Order: 1212191

Lab ID	1212191-003A
Client ID	SCALE
Matrix	Soil

Compound	Concentration *	DF	MDL	RL	Compound	Concentration *	DF	MDL	RL
Acenaphthene	ND	1.0	0.14	0.25	Acenaphthylene	ND	1.0	0.14	0.25
Acetochlor	ND	1.0	0.25	0.25	Anthracene	ND	1.0	0.14	0.25
Benzidine	ND	1.0	0.23	1.3	Benzoic Acid	ND	1.0	1.0	2.5
Benzo (a) anthracene	ND	1.0	0.14	0.25	Benzo (b) fluoranthene	ND	1.0	0.14	0.25
Benzo (k) fluoranthene	ND	1.0	0.16	0.25	Benzo (g,h,i) perylene	ND	1.0	0.15	0.25
Benzo (a) pyrene	ND	1.0	0.14	0.25	Benzyl Alcohol	ND	1.0	0.51	1.3
1,1-Biphenyl	ND	1.0	0.15	0.25	Bis (2-chloroethoxy) Methane	ND	1.0	0.14	0.25
Bis (2-chloroethyl) Ether	ND	1.0	0.13	0.25	Bis (2-chloroisopropyl) Ether	ND	1.0	0.12	0.25
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.13	0.25	4-Bromophenyl Phenyl Ether	ND	1.0	0.16	0.25
Butylbenzyl Phthalate	ND	1.0	0.13	0.25	4-Chloroaniline	ND	1.0	0.13	0.25
4-Chloro-3-methylphenol	ND	1.0	0.12	0.25	2-Chloronaphthalene	ND	1.0	0.16	0.25
2-Chlorophenol	ND	1.0	0.14	0.25	4-Chlorophenyl Phenyl Ether	ND	1.0	0.15	0.25
Chrysene	ND	1.0	0.14	0.25	Dibenzo (a,h) anthracene	ND	1.0	0.16	0.25
Dibenzofuran	ND	1.0	0.13	0.25	Di-n-butyl Phthalate	ND	1.0	0.13	0.25
1,2-Dichlorobenzene	ND	1.0	0.12	0.25	1,3-Dichlorobenzene	ND	1.0	0.14	0.25
1,4-Dichlorobenzene	ND	1.0	0.13	0.25	3,3-Dichlorobenzidine	ND	1.0	0.12	0.5
2,4-Dichlorophenol	ND	1.0	0.13	0.25	Diethyl Phthalate	ND	1.0	0.14	0.25
2,4-Dimethylphenol	ND	1.0	0.13	0.25	Dimethyl Phthalate	ND	1.0	0.14	0.25
4,6-Dinitro-2-methylphenol	ND	1.0	0.13	1.3	2,4-Dinitrophenol	ND	1.0	1.3	6.3
2,4-Dinitrotoluene	ND	1.0	0.13	0.25	2,6-Dinitrotoluene	ND	1.0	0.14	0.25
Di-n-octyl Phthalate	ND	1.0	0.14	0.25	1,2-Diphenylhydrazine	ND	1.0	0.16	0.25
Fluoranthene	ND	1.0	0.13	0.25	Fluorene	ND	1.0	0.14	0.25
Hexachlorobenzene	ND	1.0	0.17	0.25	Hexachlorobutadiene	ND	1.0	0.15	0.25
Hexachlorocyclopentadiene	ND	1.0	0.73	1.3	Hexachloroethane	ND	1.0	0.14	0.25
Indeno (1,2,3-cd) pyrene	ND	1.0	0.14	0.25	Isophorone	ND	1.0	0.12	0.25
2-Methylnaphthalene	ND	1.0	0.14	0.25	2-Methylphenol (o-Cresol)	ND	1.0	0.14	0.25
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.12	0.25	Naphthalene	ND	1.0	0.13	0.25
2-Nitroaniline	ND	1.0	0.62	1.3	3-Nitroaniline	ND	1.0	0.59	1.3
4-Nitroaniline	ND	1.0	0.55	1.3	Nitrobenzene	ND	1.0	0.14	0.25
2-Nitrophenol	ND	1.0	0.64	1.3	4-Nitrophenol	ND	1.0	0.41	1.3
N-Nitrosodiphenylamine	ND	1.0	0.16	0.25	N-Nitrosodi-n-propylamine	ND	1.0	0.13	0.25
Pentachlorophenol	ND	1.0	0.061	1.3	Phenanthrene	ND	1.0	0.14	0.25
Phenol	ND	1.0	0.12	0.25	Pyrene	ND	1.0	0.13	0.25
1,2,4-Trichlorobenzene	ND	1.0	0.14	0.25	2,4,5-Trichlorophenol	ND	1.0	0.12	0.25
2,4,6-Trichlorophenol	ND	1.0	0.14	0.25					

Surrogate Recoveries (%)

%SS1:	81	%SS2:	72
%SS3:	64	%SS4:	64
%SS5:	44	%SS6:	64

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

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Quest GeoSystems Management	Client Project ID: #G09212012-02; Byron Power Company	Date Sampled: 12/07/12
		Date Received 12/07/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted 12/07/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed 12/11/12

CAM / CCR 17 Metals*

Lab ID	1212191-001A	1212191-002A	1212191-003A		Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	Si.01	Si.02	SCALE			
Matrix	S	S	S		MDL	RL
Extraction Type	TOTAL	TOTAL	TOTAL		mg/Kg	mg/Kg

ICP Metals, Concentration*

Analytical Method: SW6020 | Extraction Method: SW3050B | Work Order: 1212191

Dilution Factor	1	1	1		1	1
Antimony	2.5	1.5	1.2		0.14	0.5
Arsenic	1.2	1.8	0.97		0.27	0.5
Barium	65	110	150		4.0	5.0
Beryllium	ND	ND	ND		0.19	0.5
Cadmium	0.24,J	0.21,J	ND		0.16	0.25
Chromium	5.6	8.5	3.5		0.5	0.5
Cobalt	0.67	0.90	0.83		0.17	0.5
Copper	58	44	65		0.4	0.5
Lead	19	31	21		0.5	0.5
Mercury	0.031,J	0.040,J	0.036,J		0.01	0.05
Molybdenum	140	87	6.6		0.17	0.5
Nickel	2.6	2.5	3.0		0.25	0.5
Selenium	0.23,J	ND	ND		0.22	0.5
Silver	ND	ND	ND		0.13	0.5
Thallium	ND	ND	ND		0.14	0.5
Vanadium	2.0	1.8	0.79		0.5	0.5
Zinc	180	390	190		2.0	5.0
%SS:	95	91	91			

Comments

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.
%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

J) analyte detected below quantitation limits

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Quest GeoSystems Management	Client Project ID: #G09212012-02; Byron Power Company	Date Sampled: 12/07/12
11275 Sunrise Gold Cir., Ste. R		Date Received: 12/07/12
	Client Contact: Eric Garcia	Date Extracted: 12/07/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed 12/10/12-12/12/12

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method: SW5030B | Analytical methods: SW8015Bm | Work Order: 1212191

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	Si.01	S	1.8	1	62	d7,c2
002A	Si.02	S	11	1	63	d2,c2
003A	SCALE	S	0.26,J	1	83	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit/method detection limit	MDL	0.09	mg/Kg
	RL	1.0	mg/Kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
J) analyte detected below quantitation limits
c2) low surrogate recovery, caused by matrix interference.
d2) heavier gasoline range compounds are significant (aged gasoline?)
d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

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Quest GeoSystems Management	Client Project ID: #G09212012-02; Byron Power Company	Date Sampled: 12/07/12
11275 Sunrise Gold Cir., Ste. R		Date Received: 12/07/12
	Client Contact: Eric Garcia	Date Extracted: 12/07/12-12/13/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/07/12-12/13/12

RCI (Reactivity , Corrosivity , Ignitability)

Work Order: 1212191

Lab ID	Client ID	Matrix	Reactivity		Corrosivity	Ignitability	Comments
			Sulfide	Cyanide			
003A	SCALE	S	neg	neg	8.90 @ 21.7°C	neg	

Reactivity: negative means no obvious evolution of gas or instability and contains no reactive cyanide or sulfide (<250 mg/L cyanide and <500 mg/L sulfide for Water matrix; <250 mg/Kg cyanide and <500 mg/Kg sulfide for Soil matrix, by EPA SW-846, chapter7, Rev. 3).

Corrosivity determined by EPA method 9040; pH = @ _ °C ; ±0.05 units.

Ignitability: EPA method 1010; reported in °C; ±2°C; negative means that flashpoint was not detected below 100°C.

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Quest GeoSystems Management	Client Project ID: #G09212012-02; Byron Power Company	Date Sampled: 12/07/12
		Date Received: 12/07/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/10/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed 12/11/12

Percent Moisture

Analytical Method: ASTMD2216-92 Work Order: 1212191

Lab ID	Client ID	Matrix	% Moisture	Comments
1212191-001A	Si.01	S	67.4	
1212191-002A	Si.02	S	58.5	

Reporting Limit or Method Accuracy and Reporting Units; ND means not detected at or above the reporting limit/method detection limit		
	MDL	±0.1, wet wt%
	RL	±0.1, wet wt%

Moisture Content, % = [(A - B) x 100)] / A
A = mass of the total, as received, sample (i.e., "wet weight")
B = mass of the oven-dried sample

DF = Dilution Factor

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Quest GeoSystems Management	Client Project ID: #G09212012-02; Byron Power Company	Date Sampled: 12/07/12
		Date Received: 12/07/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/07/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/12/12-12/13/12

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550B | Analytical methods: SW8015B | Work Order: 1212191

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1212191-001A	Si.01	S	72	160	20	112	e7,e2
1212191-002A	Si.02	S	430	660	50	96	e3,e7
1212191-003A	SCALE	S	3.6	12	1	95	e7,e2

Reporting Limit for DF =1; ND means not detected at or above the RL/MDL	MDL	0.7	5.0	mg/Kg
	RL	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
e2) diesel range compounds are significant; no recognizable pattern
e3) aged diesel is significant
e7) oil range compounds are significant

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Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 72946 | WorkOrder: 1212191

EPA Method: SW8260B **Extraction: SW5030B** **Spiked Sample ID: 1212060-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND<0.1	0.050	NR	NR	NR	94	N/A	N/A	70 - 130
Benzene	ND<0.1	0.050	NR	NR	NR	95.2	N/A	N/A	70 - 130
t-Butyl alcohol (TBA)	ND<1	0.20	NR	NR	NR	116	N/A	N/A	70 - 130
Chlorobenzene	ND<0.1	0.050	NR	NR	NR	94.5	N/A	N/A	70 - 130
1,2-Dibromoethane (EDB)	ND<0.08	0.050	NR	NR	NR	96.7	N/A	N/A	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND<0.08	0.050	NR	NR	NR	98.2	N/A	N/A	70 - 130
1,1-Dichloroethene	ND<0.1	0.050	NR	NR	NR	95.2	N/A	N/A	70 - 130
Diisopropyl ether (DIPE)	ND<0.1	0.050	NR	NR	NR	95.4	N/A	N/A	70 - 130
Ethyl tert-butyl ether (ETBE)	ND<0.1	0.050	NR	NR	NR	96	N/A	N/A	70 - 130
Methyl-t-butyl ether (MTBE)	ND<0.1	0.050	NR	NR	NR	98.5	N/A	N/A	70 - 130
Toluene	0.28	0.050	NR	NR	NR	95.5	N/A	N/A	70 - 130
Trichloroethene	ND<0.1	0.050	NR	NR	NR	95.2	N/A	N/A	70 - 130
%SS1:	105	0.12	NR	NR	NR	99	N/A	N/A	70 - 130
%SS2:	106	0.12	NR	NR	NR	100	N/A	N/A	70 - 130
%SS3:	113	0.012	NR	NR	NR	96	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 72946 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212191-001A	12/07/12 11:16 AM	12/07/12	12/11/12 3:43 AM	1212191-002A	12/07/12 11:11 AM	12/07/12	12/11/12 4:26 AM
1212191-003A	12/07/12 11:06 AM	12/07/12	12/10/12 2:40 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
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QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 73098 | WorkOrder: 1212191

EPA Method: SW8270C **Extraction: SW3550B** **Spiked Sample ID: 1212196-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Acenaphthene	ND<0.66	5	NR	NR	NR	82.4	N/A	N/A	30 - 130
4-Chloro-3-methylphenol	ND<0.5	5	NR	NR	NR	88.2	N/A	N/A	30 - 130
2-Chlorophenol	ND<0.5	5	NR	NR	NR	80.6	N/A	N/A	30 - 130
1,4-Dichlorobenzene	ND<0.66	5	NR	NR	NR	67.2	N/A	N/A	30 - 130
2,4-Dinitrotoluene	ND<0.66	5	NR	NR	NR	93.7	N/A	N/A	30 - 130
4-Nitrophenol	ND<2.6	5	NR	NR	NR	51.9	N/A	N/A	30 - 130
N-Nitrosodi-n-propylamine	ND<0.66	5	NR	NR	NR	62.7	N/A	N/A	30 - 130
Pentachlorophenol	ND<2.6	5	NR	NR	NR	52.1	N/A	N/A	30 - 130
Phenol	ND<0.5	5	NR	NR	NR	83.2	N/A	N/A	30 - 130
Pyrene	ND<0.66	5	NR	NR	NR	90	N/A	N/A	30 - 130
1,2,4-Trichlorobenzene	ND<0.66	5	NR	NR	NR	76.6	N/A	N/A	30 - 130
%SS1:	100	5	NR	NR	NR	100	N/A	N/A	30 - 130
%SS2:	97	5	NR	NR	NR	95	N/A	N/A	30 - 130
%SS3:	83	5	NR	NR	NR	91	N/A	N/A	30 - 130
%SS4:	83	5	NR	NR	NR	81	N/A	N/A	30 - 130
%SS5:	58	5	NR	NR	NR	65	N/A	N/A	30 - 130
%SS6:	85	5	NR	NR	NR	90	N/A	N/A	30 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73098 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212191-001A	12/07/12 11:16 AM	12/07/12	12/15/12 3:01 AM	1212191-002A	12/07/12 11:11 AM	12/07/12	12/15/12 3:26 AM
1212191-003A	12/07/12 11:06 AM	12/07/12	12/14/12 11:13 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and / or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix, sample diluted due to high matrix or analyte content, or MS/MSD samples diluted due to high organic content.

#) surrogate diluted out of range; & = low or no recovery of surrogate or target analytes due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 72976 | WorkOrder: 1212191

EPA Method: SW6020 **Extraction: SW3050B** **Spiked Sample ID: 1212191-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Antimony	2.5	50	111	118	5.40	104	75 - 125	20	75 - 125
Arsenic	1.2	50	109	115	5.34	108	75 - 125	20	75 - 125
Barium	65	500	113	121	5.95	103	75 - 125	20	75 - 125
Beryllium	ND	50	102	107	4.65	115	75 - 125	20	75 - 125
Cadmium	ND	50	110	116	4.96	107	75 - 125	20	75 - 125
Chromium	5.6	50	106	113	5.71	118	75 - 125	20	75 - 125
Cobalt	0.67	50	113	117	3.76	111	75 - 125	20	75 - 125
Copper	58	50	NR	NR	NR	114	N/A	N/A	75 - 125
Lead	19	50	107	117	6.55	109	75 - 125	20	75 - 125
Mercury	ND	1.25	104	112	7.11	101	75 - 125	20	75 - 125
Molybdenum	140	50	NR	NR	NR	108	N/A	N/A	75 - 125
Nickel	2.6	50	106	111	4.97	114	75 - 125	20	75 - 125
Selenium	ND	50	110	118	6.91	114	75 - 125	20	75 - 125
Silver	ND	50	110	114	3.87	101	75 - 125	20	75 - 125
Thallium	ND	50	105	109	3.54	102	75 - 125	20	75 - 125
Vanadium	2.0	50	108	114	5.75	116	75 - 125	20	75 - 125
Zinc	180	500	105	115	7.08	114	75 - 125	20	75 - 125
%SS:	95	500	91	100	9.99	117	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 72976 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212191-001A	12/07/12 11:16 AM	12/07/12	12/11/12 12:38 AM	1212191-001A	12/07/12 11:16 AM	12/07/12	12/11/12 2:41 PM
1212191-002A	12/07/12 11:11 AM	12/07/12	12/11/12 12:01 AM	1212191-003A	12/07/12 11:06 AM	12/07/12	12/11/12 12:08 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 72969 | WorkOrder: 1212191

EPA Method: SW8015Bm **Extraction: SW5030B** **Spiked Sample ID: 1212104-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex)£	ND	0.60	93	94.8	1.86	101	70 - 130	20	80 - 120
MTBE	ND	0.10	96	100	4.40	104	70 - 130	20	80 - 120
Benzene	ND	0.10	101	97.5	3.43	98.7	70 - 130	20	80 - 120
Toluene	ND	0.10	100	97	3.45	98.4	70 - 130	20	80 - 120
Ethylbenzene	ND	0.10	101	98.7	2.71	101	70 - 130	20	80 - 120
Xylenes	ND	0.30	102	99.4	2.93	103	70 - 130	20	80 - 120
%SS:	99	0.10	106	102	3.89	107	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 72969 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212191-001A	12/07/12 11:16 AM	12/07/12	12/12/12 7:07 PM	1212191-002A	12/07/12 11:11 AM	12/07/12	12/11/12 4:52 PM
1212191-003A	12/07/12 11:06 AM	12/07/12	12/10/12 6:52 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: **SWChpt7 (Ignitability)** **Matrix:** **S** **WorkOrder:** **1212191**

Method Name: SWChpt7_Ign Units: pos/neg BatchID: 73241

Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1212191-003A	neg	1	neg	1	N/A	N/A

BATCH 73241 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212191-003A	12/07/12 11:06 AM	12/13/12	12/13/12 1:15 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

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QA/QC Officer

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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: **ASTM D2216-92 (Percent Moisture)** **Matrix:** **S** **WorkOrder:** **1212191**

Method Name: ASTMD2216-92 Units: ±, wet wt% BatchID: 72991

Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1212191-001A	67.4	1.42	67.0	1.414	0.628	<15
1212191-002A	58.5	1.95	56.1	2.087	4.19	<15

BATCH 72991 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212191-001A	12/07/12 11:16 AM	12/10/12	12/11/12 1:20 PM	1212191-002A	12/07/12 11:11 AM	12/10/12	12/11/12 1:30 PM

Test Method: **SW9045D (pH)** **Matrix:** **S** **WorkOrder:** **1212191**

Method Name: SW9045D Units: ±, pH units @ °C BatchID: 72995

Lab ID	Sample	DF	Dup / Ser. Dil.	DF	Precision	Acceptance Criteria
1212191-003A	8.90 @ 21.7°C	1	8.91 @ 21.8°C	1	0.01	0.1

BATCH 72995 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212191-003A	12/07/12 11:06 AM	12/07/12	12/07/12 9:36 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: **SWchpt7_CN (Reactive Cyanide)** **Matrix:** **S** **WorkOrder:** **1212191**

Method Name: SWchpt7_CN			Units: pos/neg			BatchID: 73239
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1212191-003A	neg	1	neg	1	N/A	N/A

BATCH 73239 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212191-003A	12/07/12 11:06 AM	12/13/12	12/13/12 2:00 PM				

Test Method: **SWchpt7_S (Reactive Sulfide)** **Matrix:** **S** **WorkOrder:** **1212191**

Method Name: SWchpt7_S			Units: pos/neg			BatchID: 73239
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1212191-003A	neg	1	neg	1	N/A	N/A

BATCH 73239 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212191-003A	12/07/12 11:06 AM	12/13/12	12/13/12 2:00 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 72989 | WorkOrder: 1212191

EPA Method: SW8015B **Extraction: SW3550B** **Spiked Sample ID: 1212122-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	1.2	40	124	127	2.48	99.5	70 - 130	30	70 - 130
%SS:	81	25	79	80	1.10	93	70 - 130	30	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 72989 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212191-001A	12/07/12 11:16 AM	12/07/12	12/13/12 3:47 PM	1212191-002A	12/07/12 11:11 AM	12/07/12	12/12/12 9:35 AM
1212191-003A	12/07/12 11:06 AM	12/07/12	12/12/12 3:39 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

Forensic Analytical Laboratories

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

McCampbell Analytical, Inc.
Account Payable
1534 Wilow Pass Rd

Pittsburg, CA 94565

Client ID: A31409
Report Number: B171337
Date Received: 12/10/12
Date Analyzed: 12/17/12
Date Printed: 12/17/12
First Reported: 12/17/12

Job ID/Site: G09212012-02 - Byron Power Company

Date(s) Collected: 12/07/2012

FALI Job ID: A31409
Total Samples Submitted: 1
Total Samples Analyzed: 1

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SCALE	11325629						
Layer: Off-White/Beige Soil			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

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Analytical Report

Quest GeoSystems Management 11275 Sunrise Gold Cir., Ste. R Rancho Cordova, CA 95742	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12-12/19/12
		Date Received: 12/19/12
	Client Contact: Eric Garcia	Date Reported: 12/28/12
	Client P.O.:	Date Completed: 12/28/12

WorkOrder: 1212525

January 04, 2013

Dear Eric:

Enclosed within are:

1) The results of the **6** analyzed samples from your project: **G09212012-02; Byron Power Company,**
2) QC data for the above samples, and
3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

1212525

CHAIN OF CUSTODY RECORD

GSM
QUEST GEOSYSTEMS MANAGEMENT
11275 Sunrise Gold Circle, Suite R,
Rancho Cordova, California 95742

PROJECT REPORTING
Company: Quest GeoSystems Management, Inc.
Attention: Mr. Eric W. Garcia Phone: (925) 756-1210
Fax: (925) 756-1227
Address: 11275 Sunrise Gold Cir, Suite R, Rancho Cordova, CA 95742
Email: ericgarcia@questgsm.com

PROJECT BILLING
Company: Quest GeoSystems Management, Inc.
Attention: Mr. Eric W. Garcia Phone: (925) 756-1210
Fax: (925) 756-1227
Address: 11275 Sunrise Gold Cir, Suite R, Rancho Cordova, CA 95742
Email: ericgarcia@questgsm.com

Project Name: Byron Power Company
Project Number: G09212012-02
Project Location: 4901 Bruns Road, Byron, California
Sampler Signature:

TURN AROUND TIME: RUSH ☐ 24 HOUR ☐ 48 HOUR ☐ 5 DAY ☒ OTHER: ☐
EDF Required? YES ☒ NO ☐

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# of Containers	Type of Containers	MATRIX Water	MATRIX soil	MATRIX Air	MATRIX Sludge	MATRIX Other	PRESERVATION METHOD Ice	PRESERVATION METHOD HCl	PRESERVATION METHOD HNO3	PRESERVATION METHOD Other	ANALYSIS REQUEST TPH-MR - 8015	ANALYSIS REQUEST VOC's - 8260B	ANALYSIS REQUEST SVOC's - 8270	COMMENTS
MW.01-4	MW.01	12-18	1455	1	SS		X				X				X	X	X	depth in ft
MW.01-8	MW.01	12-18	1510	1	SS		X				X				X	X	X	
MW.02	MW.02	RN		1	SS		X				X				X	X	X	
MW.02	MW.02			1	SS		X				X				X	X	X	
MW.03-4	MW.03	12-19	1340	1	SS		X				X				X	X	X	
MW.03-8	MW.03	12-19	1350	1	SS		X				X				X	X	X	
MW.04-4	MW.04	12-18	0925	1	SS		X				X				X	X	X	
MW.04-8	MW.04	12-18	1000	1	SS		X				X				X	X	X	

RN

ICE ℃ 3.3
CUSTODY SEAL CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
PRESERVATION VOAS | O&G | METALS | OTHER
APPROPRIATE CONTAINERS
PRESERVED IN LAB

Relinquished By:	Date:	Time:	Received By:
Robert Nelson	12-19-2012	1655	
Relinquished By:	Date:	Time:	Received By:

Remarks:

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1212525 **ClientCode: QGSM**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Eric Garcia
Quest GeoSystems Management
11275 Sunrise Gold Cir., Ste. R
Rancho Cordova, CA 95742
(925) 756-1210 FAX: (925) 756-1227

Email: eric.garcia@questgsm.com
cc:
PO:
ProjectNo: G09212012-02; Byron Power Company

Bill to:
Lexie Hinds
Quest GeoSystems Management
98 Daisyfield Drive
Livermore, CA 94551
lexiehinds@yahoo.com

Requested TAT: **5 days**

Date Received: **12/19/2012**
Date Printed: **12/19/2012**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1212525-001	MW.01-4	Soil	12/18/2012 14:55	☐	A	A	A	A								
1212525-002	MW.01-8	Soil	12/18/2012 15:10	☐	A	A	A									
1212525-003	MW.03-4	Soil	12/19/2012 13:40	☐	A	A	A									
1212525-004	MW.03-8	Soil	12/19/2012 13:50	☐	A	A	A									
1212525-005	MW.04-4	Soil	12/18/2012 9:25	☐	A	A	A									
1212525-006	MW.04-8	Soil	12/18/2012 10:00	☐	A	A	A									

Test Legend:

1	8260B_S	2	8270D_S	3	G-MBTEX_S	4	PREDF REPORT	5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A contain testgroup.

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: **Quest GeoSystems Management** Date and Time Received: **12/19/2012 6:15:40 PM**

Project Name: **G09212012-02; Byron Power Company** LogIn Reviewed by: Zoraida Cortez

WorkOrder N°: **1212525** Matrix: Soil Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☐	No ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 3.3°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Comments:

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/19/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/20/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212525

Lab ID	1212525-001A
Client ID	MW.01-4
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	111	%SS2:	115
%SS3:	96		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/19/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/20/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212525

Lab ID	1212525-002A
Client ID	MW.01-8
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	110	%SS2:	117
%SS3:	95		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/19/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/19/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/20/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212525

Lab ID	1212525-003A
Client ID	MW.03-4
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	111	%SS2:	116
%SS3:	92		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/19/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/19/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/20/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212525

Lab ID	1212525-004A
Client ID	MW.03-8
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	109	%SS2:	115
%SS3:	93		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/19/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/20/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212525

Lab ID	1212525-005A
Client ID	MW.04-4
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	110	%SS2:	115
%SS3:	93		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/19/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/20/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212525

Lab ID	1212525-006A
Client ID	MW.04-8
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	109	%SS2:	115
%SS3:	92		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12-12/19/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/20/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/27/12

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8270C | Work Order: 1212525

Lab ID	1212525-001A
Client ID	MW.01-4
Matrix	Soil

Compound	Concentration *	DF	MDL	RL	Compound	Concentration *	DF	MDL	RL
Acenaphthene	ND	1.0	0.14	0.25	Acenaphthylene	ND	1.0	0.14	0.25
Acetochlor	ND	1.0	0.25	0.25	Anthracene	ND	1.0	0.14	0.25
Benzidine	ND	1.0	0.23	1.3	Benzoic Acid	ND	1.0	1.0	2.5
Benzo (a) anthracene	ND	1.0	0.14	0.25	Benzo (b) fluoranthene	ND	1.0	0.14	0.25
Benzo (k) fluoranthene	ND	1.0	0.16	0.25	Benzo (g,h,i) perylene	ND	1.0	0.15	0.25
Benzo (a) pyrene	ND	1.0	0.14	0.25	Benzyl Alcohol	ND	1.0	0.51	1.3
1,1-Biphenyl	ND	1.0	0.15	0.25	Bis (2-chloroethoxy) Methane	ND	1.0	0.14	0.25
Bis (2-chloroethyl) Ether	ND	1.0	0.13	0.25	Bis (2-chloroisopropyl) Ether	ND	1.0	0.12	0.25
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.13	0.25	4-Bromophenyl Phenyl Ether	ND	1.0	0.16	0.25
Butylbenzyl Phthalate	ND	1.0	0.13	0.25	4-Chloroaniline	ND	1.0	0.13	0.25
4-Chloro-3-methylphenol	ND	1.0	0.12	0.25	2-Chloronaphthalene	ND	1.0	0.16	0.25
2-Chlorophenol	ND	1.0	0.14	0.25	4-Chlorophenyl Phenyl Ether	ND	1.0	0.15	0.25
Chrysene	ND	1.0	0.14	0.25	Dibenzo (a,h) anthracene	ND	1.0	0.16	0.25
Dibenzofuran	ND	1.0	0.13	0.25	Di-n-butyl Phthalate	ND	1.0	0.13	0.25
1,2-Dichlorobenzene	ND	1.0	0.12	0.25	1,3-Dichlorobenzene	ND	1.0	0.14	0.25
1,4-Dichlorobenzene	ND	1.0	0.13	0.25	3,3-Dichlorobenzidine	ND	1.0	0.12	0.5
2,4-Dichlorophenol	ND	1.0	0.13	0.25	Diethyl Phthalate	ND	1.0	0.14	0.25
2,4-Dimethylphenol	ND	1.0	0.13	0.25	Dimethyl Phthalate	ND	1.0	0.14	0.25
4,6-Dinitro-2-methylphenol	ND	1.0	0.13	1.3	2,4-Dinitrophenol	ND	1.0	1.3	6.3
2,4-Dinitrotoluene	ND	1.0	0.13	0.25	2,6-Dinitrotoluene	ND	1.0	0.14	0.25
Di-n-octyl Phthalate	ND	1.0	0.14	0.25	1,2-Diphenylhydrazine	ND	1.0	0.16	0.25
Fluoranthene	ND	1.0	0.13	0.25	Fluorene	ND	1.0	0.14	0.25
Hexachlorobenzene	ND	1.0	0.17	0.25	Hexachlorobutadiene	ND	1.0	0.15	0.25
Hexachlorocyclopentadiene	ND	1.0	0.73	1.3	Hexachloroethane	ND	1.0	0.14	0.25
Indeno (1,2,3-cd) pyrene	ND	1.0	0.14	0.25	Isophorone	ND	1.0	0.12	0.25
2-Methylnaphthalene	ND	1.0	0.14	0.25	2-Methylphenol (o-Cresol)	ND	1.0	0.14	0.25
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.12	0.25	Naphthalene	ND	1.0	0.13	0.25
2-Nitroaniline	ND	1.0	0.62	1.3	3-Nitroaniline	ND	1.0	0.59	1.3
4-Nitroaniline	ND	1.0	0.55	1.3	Nitrobenzene	ND	1.0	0.14	0.25
2-Nitrophenol	ND	1.0	0.64	1.3	4-Nitrophenol	ND	1.0	0.41	1.3
N-Nitrosodiphenylamine	ND	1.0	0.16	0.25	N-Nitrosodi-n-propylamine	ND	1.0	0.13	0.25
Pentachlorophenol	ND	1.0	0.061	1.3	Phenanthrene	ND	1.0	0.14	0.25
Phenol	ND	1.0	0.12	0.25	Pyrene	ND	1.0	0.13	0.25
1,2,4-Trichlorobenzene	ND	1.0	0.14	0.25	2,4,5-Trichlorophenol	ND	1.0	0.12	0.25
2,4,6-Trichlorophenol	ND	1.0	0.14	0.25					

Surrogate Recoveries (%)

%SS1:	103	%SS2:	96
%SS3:	80	%SS4:	76
%SS5:	48	%SS6:	80

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12-12/19/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/20/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/27/12

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8270C | Work Order: 1212525

Lab ID	1212525-002A
Client ID	MW.01-8
Matrix	Soil

Compound	Concentration *	DF	MDL	RL	Compound	Concentration *	DF	MDL	RL
Acenaphthene	ND	1.0	0.14	0.25	Acenaphthylene	ND	1.0	0.14	0.25
Acetochlor	ND	1.0	0.25	0.25	Anthracene	ND	1.0	0.14	0.25
Benzidine	ND	1.0	0.23	1.3	Benzoic Acid	ND	1.0	1.0	2.5
Benzo (a) anthracene	ND	1.0	0.14	0.25	Benzo (b) fluoranthene	ND	1.0	0.14	0.25
Benzo (k) fluoranthene	ND	1.0	0.16	0.25	Benzo (g,h,i) perylene	ND	1.0	0.15	0.25
Benzo (a) pyrene	ND	1.0	0.14	0.25	Benzyl Alcohol	ND	1.0	0.51	1.3
1,1-Biphenyl	ND	1.0	0.15	0.25	Bis (2-chloroethoxy) Methane	ND	1.0	0.14	0.25
Bis (2-chloroethyl) Ether	ND	1.0	0.13	0.25	Bis (2-chloroisopropyl) Ether	ND	1.0	0.12	0.25
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.13	0.25	4-Bromophenyl Phenyl Ether	ND	1.0	0.16	0.25
Butylbenzyl Phthalate	ND	1.0	0.13	0.25	4-Chloroaniline	ND	1.0	0.13	0.25
4-Chloro-3-methylphenol	ND	1.0	0.12	0.25	2-Chloronaphthalene	ND	1.0	0.16	0.25
2-Chlorophenol	ND	1.0	0.14	0.25	4-Chlorophenyl Phenyl Ether	ND	1.0	0.15	0.25
Chrysene	ND	1.0	0.14	0.25	Dibenzo (a,h) anthracene	ND	1.0	0.16	0.25
Dibenzofuran	ND	1.0	0.13	0.25	Di-n-butyl Phthalate	ND	1.0	0.13	0.25
1,2-Dichlorobenzene	ND	1.0	0.12	0.25	1,3-Dichlorobenzene	ND	1.0	0.14	0.25
1,4-Dichlorobenzene	ND	1.0	0.13	0.25	3,3-Dichlorobenzidine	ND	1.0	0.12	0.5
2,4-Dichlorophenol	ND	1.0	0.13	0.25	Diethyl Phthalate	ND	1.0	0.14	0.25
2,4-Dimethylphenol	ND	1.0	0.13	0.25	Dimethyl Phthalate	ND	1.0	0.14	0.25
4,6-Dinitro-2-methylphenol	ND	1.0	0.13	1.3	2,4-Dinitrophenol	ND	1.0	1.3	6.3
2,4-Dinitrotoluene	ND	1.0	0.13	0.25	2,6-Dinitrotoluene	ND	1.0	0.14	0.25
Di-n-octyl Phthalate	ND	1.0	0.14	0.25	1,2-Diphenylhydrazine	ND	1.0	0.16	0.25
Fluoranthene	ND	1.0	0.13	0.25	Fluorene	ND	1.0	0.14	0.25
Hexachlorobenzene	ND	1.0	0.17	0.25	Hexachlorobutadiene	ND	1.0	0.15	0.25
Hexachlorocyclopentadiene	ND	1.0	0.73	1.3	Hexachloroethane	ND	1.0	0.14	0.25
Indeno (1,2,3-cd) pyrene	ND	1.0	0.14	0.25	Isophorone	ND	1.0	0.12	0.25
2-Methylnaphthalene	ND	1.0	0.14	0.25	2-Methylphenol (o-Cresol)	ND	1.0	0.14	0.25
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.12	0.25	Naphthalene	ND	1.0	0.13	0.25
2-Nitroaniline	ND	1.0	0.62	1.3	3-Nitroaniline	ND	1.0	0.59	1.3
4-Nitroaniline	ND	1.0	0.55	1.3	Nitrobenzene	ND	1.0	0.14	0.25
2-Nitrophenol	ND	1.0	0.64	1.3	4-Nitrophenol	ND	1.0	0.41	1.3
N-Nitrosodiphenylamine	ND	1.0	0.16	0.25	N-Nitrosodi-n-propylamine	ND	1.0	0.13	0.25
Pentachlorophenol	ND	1.0	0.061	1.3	Phenanthrene	ND	1.0	0.14	0.25
Phenol	ND	1.0	0.12	0.25	Pyrene	ND	1.0	0.13	0.25
1,2,4-Trichlorobenzene	ND	1.0	0.14	0.25	2,4,5-Trichlorophenol	ND	1.0	0.12	0.25
2,4,6-Trichlorophenol	ND	1.0	0.14	0.25					

Surrogate Recoveries (%)

%SS1:	112	%SS2:	105
%SS3:	86	%SS4:	82
%SS5:	46	%SS6:	81

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12-12/19/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/20/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/27/12

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8270C | Work Order: 1212525

Lab ID	1212525-003A
Client ID	MW.03-4
Matrix	Soil

Compound	Concentration *	DF	MDL	RL	Compound	Concentration *	DF	MDL	RL
Acenaphthene	ND	1.0	0.14	0.25	Acenaphthylene	ND	1.0	0.14	0.25
Acetochlor	ND	1.0	0.25	0.25	Anthracene	ND	1.0	0.14	0.25
Benzidine	ND	1.0	0.23	1.3	Benzoic Acid	ND	1.0	1.0	2.5
Benzo (a) anthracene	ND	1.0	0.14	0.25	Benzo (b) fluoranthene	ND	1.0	0.14	0.25
Benzo (k) fluoranthene	ND	1.0	0.16	0.25	Benzo (g,h,i) perylene	ND	1.0	0.15	0.25
Benzo (a) pyrene	ND	1.0	0.14	0.25	Benzyl Alcohol	ND	1.0	0.51	1.3
1,1-Biphenyl	ND	1.0	0.15	0.25	Bis (2-chloroethoxy) Methane	ND	1.0	0.14	0.25
Bis (2-chloroethyl) Ether	ND	1.0	0.13	0.25	Bis (2-chloroisopropyl) Ether	ND	1.0	0.12	0.25
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.13	0.25	4-Bromophenyl Phenyl Ether	ND	1.0	0.16	0.25
Butylbenzyl Phthalate	ND	1.0	0.13	0.25	4-Chloroaniline	ND	1.0	0.13	0.25
4-Chloro-3-methylphenol	ND	1.0	0.12	0.25	2-Chloronaphthalene	ND	1.0	0.16	0.25
2-Chlorophenol	ND	1.0	0.14	0.25	4-Chlorophenyl Phenyl Ether	ND	1.0	0.15	0.25
Chrysene	ND	1.0	0.14	0.25	Dibenzo (a,h) anthracene	ND	1.0	0.16	0.25
Dibenzofuran	ND	1.0	0.13	0.25	Di-n-butyl Phthalate	ND	1.0	0.13	0.25
1,2-Dichlorobenzene	ND	1.0	0.12	0.25	1,3-Dichlorobenzene	ND	1.0	0.14	0.25
1,4-Dichlorobenzene	ND	1.0	0.13	0.25	3,3-Dichlorobenzidine	ND	1.0	0.12	0.5
2,4-Dichlorophenol	ND	1.0	0.13	0.25	Diethyl Phthalate	ND	1.0	0.14	0.25
2,4-Dimethylphenol	ND	1.0	0.13	0.25	Dimethyl Phthalate	ND	1.0	0.14	0.25
4,6-Dinitro-2-methylphenol	ND	1.0	0.13	1.3	2,4-Dinitrophenol	ND	1.0	1.3	6.3
2,4-Dinitrotoluene	ND	1.0	0.13	0.25	2,6-Dinitrotoluene	ND	1.0	0.14	0.25
Di-n-octyl Phthalate	ND	1.0	0.14	0.25	1,2-Diphenylhydrazine	ND	1.0	0.16	0.25
Fluoranthene	ND	1.0	0.13	0.25	Fluorene	ND	1.0	0.14	0.25
Hexachlorobenzene	ND	1.0	0.17	0.25	Hexachlorobutadiene	ND	1.0	0.15	0.25
Hexachlorocyclopentadiene	ND	1.0	0.73	1.3	Hexachloroethane	ND	1.0	0.14	0.25
Indeno (1,2,3-cd) pyrene	ND	1.0	0.14	0.25	Isophorone	ND	1.0	0.12	0.25
2-Methylnaphthalene	ND	1.0	0.14	0.25	2-Methylphenol (o-Cresol)	ND	1.0	0.14	0.25
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.12	0.25	Naphthalene	ND	1.0	0.13	0.25
2-Nitroaniline	ND	1.0	0.62	1.3	3-Nitroaniline	ND	1.0	0.59	1.3
4-Nitroaniline	ND	1.0	0.55	1.3	Nitrobenzene	ND	1.0	0.14	0.25
2-Nitrophenol	ND	1.0	0.64	1.3	4-Nitrophenol	ND	1.0	0.41	1.3
N-Nitrosodiphenylamine	ND	1.0	0.16	0.25	N-Nitrosodi-n-propylamine	ND	1.0	0.13	0.25
Pentachlorophenol	ND	1.0	0.061	1.3	Phenanthrene	ND	1.0	0.14	0.25
Phenol	ND	1.0	0.12	0.25	Pyrene	ND	1.0	0.13	0.25
1,2,4-Trichlorobenzene	ND	1.0	0.14	0.25	2,4,5-Trichlorophenol	ND	1.0	0.12	0.25
2,4,6-Trichlorophenol	ND	1.0	0.14	0.25					

Surrogate Recoveries (%)

%SS1:	98	%SS2:	92
%SS3:	77	%SS4:	74
%SS5:	49	%SS6:	73

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12-12/19/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/20/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/27/12

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8270C | Work Order: 1212525

Lab ID	1212525-004A
Client ID	MW.03-8
Matrix	Soil

Compound	Concentration *	DF	MDL	RL	Compound	Concentration *	DF	MDL	RL
Acenaphthene	ND	1.0	0.14	0.25	Acenaphthylene	ND	1.0	0.14	0.25
Acetochlor	ND	1.0	0.25	0.25	Anthracene	ND	1.0	0.14	0.25
Benzidine	ND	1.0	0.23	1.3	Benzoic Acid	ND	1.0	1.0	2.5
Benzo (a) anthracene	ND	1.0	0.14	0.25	Benzo (b) fluoranthene	ND	1.0	0.14	0.25
Benzo (k) fluoranthene	ND	1.0	0.16	0.25	Benzo (g,h,i) perylene	ND	1.0	0.15	0.25
Benzo (a) pyrene	ND	1.0	0.14	0.25	Benzyl Alcohol	ND	1.0	0.51	1.3
1,1-Biphenyl	ND	1.0	0.15	0.25	Bis (2-chloroethoxy) Methane	ND	1.0	0.14	0.25
Bis (2-chloroethyl) Ether	ND	1.0	0.13	0.25	Bis (2-chloroisopropyl) Ether	ND	1.0	0.12	0.25
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.13	0.25	4-Bromophenyl Phenyl Ether	ND	1.0	0.16	0.25
Butylbenzyl Phthalate	ND	1.0	0.13	0.25	4-Chloroaniline	ND	1.0	0.13	0.25
4-Chloro-3-methylphenol	ND	1.0	0.12	0.25	2-Chloronaphthalene	ND	1.0	0.16	0.25
2-Chlorophenol	ND	1.0	0.14	0.25	4-Chlorophenyl Phenyl Ether	ND	1.0	0.15	0.25
Chrysene	ND	1.0	0.14	0.25	Dibenzo (a,h) anthracene	ND	1.0	0.16	0.25
Dibenzofuran	ND	1.0	0.13	0.25	Di-n-butyl Phthalate	ND	1.0	0.13	0.25
1,2-Dichlorobenzene	ND	1.0	0.12	0.25	1,3-Dichlorobenzene	ND	1.0	0.14	0.25
1,4-Dichlorobenzene	ND	1.0	0.13	0.25	3,3-Dichlorobenzidine	ND	1.0	0.12	0.5
2,4-Dichlorophenol	ND	1.0	0.13	0.25	Diethyl Phthalate	ND	1.0	0.14	0.25
2,4-Dimethylphenol	ND	1.0	0.13	0.25	Dimethyl Phthalate	ND	1.0	0.14	0.25
4,6-Dinitro-2-methylphenol	ND	1.0	0.13	1.3	2,4-Dinitrophenol	ND	1.0	1.3	6.3
2,4-Dinitrotoluene	ND	1.0	0.13	0.25	2,6-Dinitrotoluene	ND	1.0	0.14	0.25
Di-n-octyl Phthalate	ND	1.0	0.14	0.25	1,2-Diphenylhydrazine	ND	1.0	0.16	0.25
Fluoranthene	ND	1.0	0.13	0.25	Fluorene	ND	1.0	0.14	0.25
Hexachlorobenzene	ND	1.0	0.17	0.25	Hexachlorobutadiene	ND	1.0	0.15	0.25
Hexachlorocyclopentadiene	ND	1.0	0.73	1.3	Hexachloroethane	ND	1.0	0.14	0.25
Indeno (1,2,3-cd) pyrene	ND	1.0	0.14	0.25	Isophorone	ND	1.0	0.12	0.25
2-Methylnaphthalene	ND	1.0	0.14	0.25	2-Methylphenol (o-Cresol)	ND	1.0	0.14	0.25
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.12	0.25	Naphthalene	ND	1.0	0.13	0.25
2-Nitroaniline	ND	1.0	0.62	1.3	3-Nitroaniline	ND	1.0	0.59	1.3
4-Nitroaniline	ND	1.0	0.55	1.3	Nitrobenzene	ND	1.0	0.14	0.25
2-Nitrophenol	ND	1.0	0.64	1.3	4-Nitrophenol	ND	1.0	0.41	1.3
N-Nitrosodiphenylamine	ND	1.0	0.16	0.25	N-Nitrosodi-n-propylamine	ND	1.0	0.13	0.25
Pentachlorophenol	ND	1.0	0.061	1.3	Phenanthrene	ND	1.0	0.14	0.25
Phenol	ND	1.0	0.12	0.25	Pyrene	ND	1.0	0.13	0.25
1,2,4-Trichlorobenzene	ND	1.0	0.14	0.25	2,4,5-Trichlorophenol	ND	1.0	0.12	0.25
2,4,6-Trichlorophenol	ND	1.0	0.14	0.25					

Surrogate Recoveries (%)

%SS1:	104	%SS2:	96
%SS3:	82	%SS4:	81
%SS5:	49	%SS6:	81

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12-12/19/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/20/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/27/12

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8270C | Work Order: 1212525

Lab ID	1212525-005A
Client ID	MW.04-4
Matrix	Soil

Compound	Concentration *	DF	MDL	RL	Compound	Concentration *	DF	MDL	RL
Acenaphthene	ND	1.0	0.14	0.25	Acenaphthylene	ND	1.0	0.14	0.25
Acetochlor	ND	1.0	0.25	0.25	Anthracene	ND	1.0	0.14	0.25
Benzidine	ND	1.0	0.23	1.3	Benzoic Acid	ND	1.0	1.0	2.5
Benzo (a) anthracene	ND	1.0	0.14	0.25	Benzo (b) fluoranthene	ND	1.0	0.14	0.25
Benzo (k) fluoranthene	ND	1.0	0.16	0.25	Benzo (g,h,i) perylene	ND	1.0	0.15	0.25
Benzo (a) pyrene	ND	1.0	0.14	0.25	Benzyl Alcohol	ND	1.0	0.51	1.3
1,1-Biphenyl	ND	1.0	0.15	0.25	Bis (2-chloroethoxy) Methane	ND	1.0	0.14	0.25
Bis (2-chloroethyl) Ether	ND	1.0	0.13	0.25	Bis (2-chloroisopropyl) Ether	ND	1.0	0.12	0.25
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.13	0.25	4-Bromophenyl Phenyl Ether	ND	1.0	0.16	0.25
Butylbenzyl Phthalate	ND	1.0	0.13	0.25	4-Chloroaniline	ND	1.0	0.13	0.25
4-Chloro-3-methylphenol	ND	1.0	0.12	0.25	2-Chloronaphthalene	ND	1.0	0.16	0.25
2-Chlorophenol	ND	1.0	0.14	0.25	4-Chlorophenyl Phenyl Ether	ND	1.0	0.15	0.25
Chrysene	ND	1.0	0.14	0.25	Dibenzo (a,h) anthracene	ND	1.0	0.16	0.25
Dibenzofuran	ND	1.0	0.13	0.25	Di-n-butyl Phthalate	ND	1.0	0.13	0.25
1,2-Dichlorobenzene	ND	1.0	0.12	0.25	1,3-Dichlorobenzene	ND	1.0	0.14	0.25
1,4-Dichlorobenzene	ND	1.0	0.13	0.25	3,3-Dichlorobenzidine	ND	1.0	0.12	0.5
2,4-Dichlorophenol	ND	1.0	0.13	0.25	Diethyl Phthalate	ND	1.0	0.14	0.25
2,4-Dimethylphenol	ND	1.0	0.13	0.25	Dimethyl Phthalate	ND	1.0	0.14	0.25
4,6-Dinitro-2-methylphenol	ND	1.0	0.13	1.3	2,4-Dinitrophenol	ND	1.0	1.3	6.3
2,4-Dinitrotoluene	ND	1.0	0.13	0.25	2,6-Dinitrotoluene	ND	1.0	0.14	0.25
Di-n-octyl Phthalate	ND	1.0	0.14	0.25	1,2-Diphenylhydrazine	ND	1.0	0.16	0.25
Fluoranthene	ND	1.0	0.13	0.25	Fluorene	ND	1.0	0.14	0.25
Hexachlorobenzene	ND	1.0	0.17	0.25	Hexachlorobutadiene	ND	1.0	0.15	0.25
Hexachlorocyclopentadiene	ND	1.0	0.73	1.3	Hexachloroethane	ND	1.0	0.14	0.25
Indeno (1,2,3-cd) pyrene	ND	1.0	0.14	0.25	Isophorone	ND	1.0	0.12	0.25
2-Methylnaphthalene	ND	1.0	0.14	0.25	2-Methylphenol (o-Cresol)	ND	1.0	0.14	0.25
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.12	0.25	Naphthalene	ND	1.0	0.13	0.25
2-Nitroaniline	ND	1.0	0.62	1.3	3-Nitroaniline	ND	1.0	0.59	1.3
4-Nitroaniline	ND	1.0	0.55	1.3	Nitrobenzene	ND	1.0	0.14	0.25
2-Nitrophenol	ND	1.0	0.64	1.3	4-Nitrophenol	ND	1.0	0.41	1.3
N-Nitrosodiphenylamine	ND	1.0	0.16	0.25	N-Nitrosodi-n-propylamine	ND	1.0	0.13	0.25
Pentachlorophenol	ND	1.0	0.061	1.3	Phenanthrene	ND	1.0	0.14	0.25
Phenol	ND	1.0	0.12	0.25	Pyrene	ND	1.0	0.13	0.25
1,2,4-Trichlorobenzene	ND	1.0	0.14	0.25	2,4,5-Trichlorophenol	ND	1.0	0.12	0.25
2,4,6-Trichlorophenol	ND	1.0	0.14	0.25					

Surrogate Recoveries (%)

%SS1:	113	%SS2:	104
%SS3:	87	%SS4:	87
%SS5:	48	%SS6:	88

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12-12/19/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/20/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/27/12

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8270C | Work Order: 1212525

Lab ID	1212525-006A
Client ID	MW.04-8
Matrix	Soil

Compound	Concentration *	DF	MDL	RL	Compound	Concentration *	DF	MDL	RL
Acenaphthene	ND	1.0	0.14	0.25	Acenaphthylene	ND	1.0	0.14	0.25
Acetochlor	ND	1.0	0.25	0.25	Anthracene	ND	1.0	0.14	0.25
Benzidine	ND	1.0	0.23	1.3	Benzoic Acid	ND	1.0	1.0	2.5
Benzo (a) anthracene	ND	1.0	0.14	0.25	Benzo (b) fluoranthene	ND	1.0	0.14	0.25
Benzo (k) fluoranthene	ND	1.0	0.16	0.25	Benzo (g,h,i) perylene	ND	1.0	0.15	0.25
Benzo (a) pyrene	ND	1.0	0.14	0.25	Benzyl Alcohol	ND	1.0	0.51	1.3
1,1-Biphenyl	ND	1.0	0.15	0.25	Bis (2-chloroethoxy) Methane	ND	1.0	0.14	0.25
Bis (2-chloroethyl) Ether	ND	1.0	0.13	0.25	Bis (2-chloroisopropyl) Ether	ND	1.0	0.12	0.25
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.13	0.25	4-Bromophenyl Phenyl Ether	ND	1.0	0.16	0.25
Butylbenzyl Phthalate	ND	1.0	0.13	0.25	4-Chloroaniline	ND	1.0	0.13	0.25
4-Chloro-3-methylphenol	ND	1.0	0.12	0.25	2-Chloronaphthalene	ND	1.0	0.16	0.25
2-Chlorophenol	ND	1.0	0.14	0.25	4-Chlorophenyl Phenyl Ether	ND	1.0	0.15	0.25
Chrysene	ND	1.0	0.14	0.25	Dibenzo (a,h) anthracene	ND	1.0	0.16	0.25
Dibenzofuran	ND	1.0	0.13	0.25	Di-n-butyl Phthalate	ND	1.0	0.13	0.25
1,2-Dichlorobenzene	ND	1.0	0.12	0.25	1,3-Dichlorobenzene	ND	1.0	0.14	0.25
1,4-Dichlorobenzene	ND	1.0	0.13	0.25	3,3-Dichlorobenzidine	ND	1.0	0.12	0.5
2,4-Dichlorophenol	ND	1.0	0.13	0.25	Diethyl Phthalate	ND	1.0	0.14	0.25
2,4-Dimethylphenol	ND	1.0	0.13	0.25	Dimethyl Phthalate	ND	1.0	0.14	0.25
4,6-Dinitro-2-methylphenol	ND	1.0	0.13	1.3	2,4-Dinitrophenol	ND	1.0	1.3	6.3
2,4-Dinitrotoluene	ND	1.0	0.13	0.25	2,6-Dinitrotoluene	ND	1.0	0.14	0.25
Di-n-octyl Phthalate	ND	1.0	0.14	0.25	1,2-Diphenylhydrazine	ND	1.0	0.16	0.25
Fluoranthene	ND	1.0	0.13	0.25	Fluorene	ND	1.0	0.14	0.25
Hexachlorobenzene	ND	1.0	0.17	0.25	Hexachlorobutadiene	ND	1.0	0.15	0.25
Hexachlorocyclopentadiene	ND	1.0	0.73	1.3	Hexachloroethane	ND	1.0	0.14	0.25
Indeno (1,2,3-cd) pyrene	ND	1.0	0.14	0.25	Isophorone	ND	1.0	0.12	0.25
2-Methylnaphthalene	ND	1.0	0.14	0.25	2-Methylphenol (o-Cresol)	ND	1.0	0.14	0.25
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.12	0.25	Naphthalene	ND	1.0	0.13	0.25
2-Nitroaniline	ND	1.0	0.62	1.3	3-Nitroaniline	ND	1.0	0.59	1.3
4-Nitroaniline	ND	1.0	0.55	1.3	Nitrobenzene	ND	1.0	0.14	0.25
2-Nitrophenol	ND	1.0	0.64	1.3	4-Nitrophenol	ND	1.0	0.41	1.3
N-Nitrosodiphenylamine	ND	1.0	0.16	0.25	N-Nitrosodi-n-propylamine	ND	1.0	0.13	0.25
Pentachlorophenol	ND	1.0	0.061	1.3	Phenanthrene	ND	1.0	0.14	0.25
Phenol	ND	1.0	0.12	0.25	Pyrene	ND	1.0	0.13	0.25
1,2,4-Trichlorobenzene	ND	1.0	0.14	0.25	2,4,5-Trichlorophenol	ND	1.0	0.12	0.25
2,4,6-Trichlorophenol	ND	1.0	0.14	0.25					

Surrogate Recoveries (%)

%SS1:	112	%SS2:	105
%SS3:	86	%SS4:	84
%SS5:	42	%SS6:	85

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12-12/19/12
11275 Sunrise Gold Cir., Ste. R		Date Received: 12/19/12
	Client Contact: Eric Garcia	Date Extracted 12/19/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed 12/20/12

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method: SW5030B Analytical methods: SW8015Bm Work Order: 1212525

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	MW.01-4	S	ND	1	111	
002A	MW.01-8	S	ND	1	112	
003A	MW.03-4	S	ND	1	112	
004A	MW.03-8	S	ND	1	114	
005A	MW.04-4	S	ND	1	106	
006A	MW.04-8	S	ND	1	105	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

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Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/18/12-12/19/12
		Date Received: 12/19/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/19/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/21/12-12/26/12

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550B Analytical methods: SW8015B Work Order: 1212525

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1212525-001A	MW.01-4	S	1.5	ND	1	107	e2
1212525-002A	MW.01-8	S	1.3	ND	1	122	e2
1212525-003A	MW.03-4	S	1.3	ND	1	102	e2
1212525-004A	MW.03-8	S	1.5	ND	1	123	e2
1212525-005A	MW.04-4	S	1.8	7.4	1	128	e7,e2
1212525-006A	MW.04-8	S	1.6	ND	1	121	e2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

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Angela Rydelius, Lab Manager

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http://www.mccampbell.com / E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 73304 | WorkOrder: 1212525

EPA Method: SW8260B **Extraction: SW5030B** **Spiked Sample ID: 1212413-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	0.050	78.3	77	1.71	78.2	56 - 94	30	70 - 130
Benzene	ND	0.050	84.7	82.5	2.67	86.4	60 - 106	30	70 - 130
t-Butyl alcohol (TBA)	ND	0.20	98.9	95	3.96	88.6	56 - 140	30	70 - 130
Chlorobenzene	ND	0.050	86.4	83.7	3.13	88	61 - 108	30	70 - 130
1,2-Dibromoethane (EDB)	ND	0.050	93.5	90.3	3.50	94	54 - 119	30	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	0.050	85.6	84.1	1.71	85.5	48 - 115	30	70 - 130
1,1-Dichloroethene	ND	0.050	89	87.1	2.15	93.6	46 - 111	30	70 - 130
Diisopropyl ether (DIPE)	ND	0.050	85.8	84.7	1.24	86.6	53 - 111	30	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	0.050	86.6	85.7	1.08	86.7	61 - 104	30	70 - 130
Methyl-t-butyl ether (MTBE)	ND	0.050	89	87.7	1.45	89.5	58 - 107	30	70 - 130
Toluene	ND	0.050	101	97.8	2.83	103	64 - 114	30	70 - 130
Trichloroethene	ND	0.050	87.6	85.7	2.20	89.5	60 - 116	30	70 - 130
%SS1:	96	0.12	96	98	1.65	97	70 - 130	30	70 - 130
%SS2:	108	0.12	123	120	2.86	124	70 - 130	30	70 - 130
%SS3:	93	0.012	115	112	2.71	114	70 - 130	30	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73304 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212525-001A	12/18/12 2:55 PM	12/19/12	12/20/12 3:24 AM	1212525-002A	12/18/12 3:10 PM	12/19/12	12/20/12 4:06 AM
1212525-003A	12/19/12 1:40 PM	12/19/12	12/20/12 4:48 AM	1212525-004A	12/19/12 1:50 PM	12/19/12	12/20/12 5:30 AM
1212525-005A	12/18/12 9:25 AM	12/19/12	12/20/12 6:13 AM	1212525-006A	12/18/12 10:00 AM	12/19/12	12/20/12 6:55 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 73396 | WorkOrder: 1212525

EPA Method: SW8021B/8015Bm **Extraction: SW5030B** **Spiked Sample ID: 1212490-003A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex)£	ND	0.60	103	110	6.68	90.6	70 - 130	20	70 - 130
MTBE	ND	0.10	88.4	93.3	5.43	79.8	70 - 130	20	70 - 130
Benzene	ND	0.10	99.8	103	2.93	93.5	70 - 130	20	70 - 130
Toluene	ND	0.10	100	103	3.33	93.1	70 - 130	20	70 - 130
Ethylbenzene	ND	0.10	100	106	5.58	93.8	70 - 130	20	70 - 130
Xylenes	ND	0.30	100	106	5.99	93.8	70 - 130	20	70 - 130
%SS:	92	0.10	108	97	10.0	95	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73396 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212525-001A	12/18/12 2:55 PM	12/19/12	12/20/12 7:34 AM	1212525-002A	12/18/12 3:10 PM	12/19/12	12/20/12 8:04 AM
1212525-003A	12/19/12 1:40 PM	12/19/12	12/20/12 8:33 AM	1212525-004A	12/19/12 1:50 PM	12/19/12	12/20/12 9:02 AM
1212525-005A	12/18/12 9:25 AM	12/19/12	12/20/12 6:51 PM	1212525-006A	12/18/12 10:00 AM	12/19/12	12/20/12 7:21 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 73479 | WorkOrder: 1212525

EPA Method: SW8270C **Extraction: SW3550B** **Spiked Sample ID: 1212490-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Acenaphthene	ND	5	72.4	74	2.24	60.9	30 - 130	30	30 - 130
4-Chloro-3-methylphenol	ND	5	75.4	78.6	4.19	62.6	30 - 130	30	30 - 130
2-Chlorophenol	ND	5	79.6	63.3	22.9	65.1	30 - 130	30	30 - 130
1,4-Dichlorobenzene	ND	5	61.2	62.6	2.33	52.2	30 - 130	30	30 - 130
2,4-Dinitrotoluene	ND	5	69	69.3	0.328	58.5	30 - 130	30	30 - 130
4-Nitrophenol	ND	5	40.2	45.7	12.8	39.3	30 - 130	30	30 - 130
N-Nitrosodi-n-propylamine	ND	5	63.5	48.3	27.1	52.8	30 - 130	30	30 - 130
Pentachlorophenol	ND	5	40.1	38	5.42	40.4	30 - 130	30	30 - 130
Phenol	ND	5	65.6	51.1	24.9	55.3	30 - 130	30	30 - 130
Pyrene	ND	5	87	93.8	7.49	69.8	30 - 130	30	30 - 130
1,2,4-Trichlorobenzene	ND	5	66.1	80.6	19.7	54.9	30 - 130	30	30 - 130
%SS1:	87	5	95	89	5.88	77	30 - 130	30	30 - 130
%SS2:	76	5	91	82	10.1	75	30 - 130	30	30 - 130
%SS3:	81	5	80	80	0	65	30 - 130	30	30 - 130
%SS4:	80	5	78	79	0.780	65	30 - 130	30	30 - 130
%SS5:	42	5	59	60	1.88	50	30 - 130	30	30 - 130
%SS6:	82	5	95	98	3.61	75	30 - 130	30	30 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73479 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212525-001A	12/18/12 2:55 PM	12/20/12	12/27/12 5:13 PM	1212525-002A	12/18/12 3:10 PM	12/20/12	12/27/12 5:38 PM
1212525-003A	12/19/12 1:40 PM	12/20/12	12/27/12 6:04 PM	1212525-004A	12/19/12 1:50 PM	12/20/12	12/27/12 6:29 PM
1212525-005A	12/18/12 9:25 AM	12/20/12	12/27/12 6:55 PM	1212525-006A	12/18/12 10:00 AM	12/20/12	12/27/12 7:20 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and / or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix, sample diluted due to high matrix or analyte content, or MS/MSD samples diluted due to high organic content.

#) surrogate diluted out of range; & = low or no recovery of surrogate or target analytes due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 73419 | WorkOrder: 1212525

EPA Method: SW8015B **Extraction: SW3550B** **Spiked Sample ID: 1212477-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	1800	40	NR	NR	NR	99	N/A	N/A	70 - 130
%SS:	95	25	NR	NR	NR	86	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73419 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212525-001A	12/18/12 2:55 PM	12/19/12	12/22/12 5:33 PM	1212525-002A	12/18/12 3:10 PM	12/19/12	12/21/12 11:22 PM
1212525-003A	12/19/12 1:40 PM	12/19/12	12/22/12 9:36 AM	1212525-004A	12/19/12 1:50 PM	12/19/12	12/26/12 6:02 PM
1212525-005A	12/18/12 9:25 AM	12/19/12	12/21/12 7:58 PM	1212525-006A	12/18/12 10:00 AM	12/19/12	12/26/12 9:26 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

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Analytical Report

Quest GeoSystems Management	Client Project ID: #G09212012-01; Byron Power Company	Date Sampled: 12/21/12
		Date Received: 12/21/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Reported: 01/03/13
Rancho Cordova, CA 95742	Client P.O.:	Date Completed: 01/03/13

WorkOrder: 1212613

January 03, 2013

Dear Eric:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **#G09212012-01; Byron Power Company,**
2) QC data for the above sample, and
3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

1212613

CHAIN OF CUSTODY RECORD

GSM
QUEST GEOSYSTEMS MANAGEMENT
11275 Sunrise Gold Circle, Suite R,
Rancho Cordova, California 95742

PROJECT REPORTING
Company: Quest GeoSystems Management, Inc.
Attention: Mr. Eric W. Garcia Phone: (925) 756-1210
Fax: (925) 756-1227
Address: 11275 Sunrise Gold Cir, Suite R, Rancho Cordova, CA 95742
Email: ericgarcia@questgsm.com

PROJECT BILLING
Company: Quest GeoSystems Management, Inc.
Attention: Mr. Eric W. Garcia Phone: (925) 756-1210
Fax: (925) 756-1227
Address: 11275 Sunrise Gold Cir, Suite R, Rancho Cordova, CA 95742
Email: ericgarcia@questgsm.com

Project Name: Byron Power Company
Project Number: G09212012-02
Project Location: 4901 Bruns Road Byron, California
Sampler Signature:

TURN AROUND TIME: RUSH ☐ 24 HOUR ☐ 48 HOUR ☐ 5 DAY ☒ OTHER: ☐
EDF Required? YES ☒ NO ☐

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# of Containers	Type of Containers	MATRIX Water	MATRIX soil	MATRIX Air	MATRIX Sludge	MATRIX Other	PRESERVATION METHOD Ice	PRESERVATION METHOD HCl	PRESERVATION METHOD HNO3	PRESERVATION METHOD Other	ANALYSIS REQUEST TPH-MR - 8015	ANALYSIS REQUEST VOC's - 8260B	ANALYSIS REQUEST SVOC's - 8270	COMMENTS depth in ft
MW.02-8	MW.01	12/21/12	1120	1	SS		X				X				X	X	X	8

Relinquished By: Robert L. Nelson Date: 12/21/12 Time: 1715 Received By:
Relinquished By: Date: Time: Received By:

Remarks: ICE/t° 1.2
GOOD CONDITION ____ APPROPRIATE
HEAD SPACE ABSENT ____ CONTAINERS ____
DECHLORINATED IN LAB ____ PRESERVED IN LAB ____

PRESERVATION	VOAS	O&G	METALS	OTHER

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1212613 **ClientCode: QGSM**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Eric Garcia
Quest GeoSystems Management
11275 Sunrise Gold Cir., Ste. R
Rancho Cordova, CA 95742
(925) 756-1210 FAX: (925) 756-1227

Email: eric.garcia@questgsm.com
cc:
PO:
ProjectNo: #G09212012-01; Byron Power Company

Bill to:
Lexie Hinds
Quest GeoSystems Management
98 Daisyfield Drive
Livermore, CA 94551
lexiehinds@yahoo.com

Requested TAT: **5 days**

Date Received: **12/21/2012**
Date Printed: **12/21/2012**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1212613-001	MW.02-8	Soil	12/21/2012 11:20	☐	A	A	A	A								

Test Legend:

1	8260B_S	2	8270D_S	3	G-MBTEX_S	4	PREDF REPORT	5	
6		7		8		9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Sample Receipt Checklist

Client Name: **Quest GeoSystems Management**
Date and Time Received: **12/21/2012 6:13:22 PM**

Project Name: **#G09212012-01; Byron Power Company**
LogIn Reviewed by: Maria Venegas

WorkOrder N°: **1212613** Matrix: Soil
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 1.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Comments:

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Quest GeoSystems Management	Client Project ID: #G09212012-01; Byron Power Company	Date Sampled: 12/21/12
		Date Received: 12/21/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/21/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/27/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212613

Lab ID	1212613-001A
Client ID	MW.02-8
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	101	%SS2:	107
%SS3:	106		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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Quest GeoSystems Management	Client Project ID: #G09212012-01; Byron Power Company	Date Sampled: 12/21/12
		Date Received: 12/21/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/28/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/28/12

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550B | Analytical Method: SW8270C | Work Order: 1212613

Lab ID	1212613-001A
Client ID	MW.02-8
Matrix	Soil

Compound	Concentration *	DF	MDL	RL	Compound	Concentration *	DF	MDL	RL
Acenaphthene	ND	1.0	0.14	0.25	Acenaphthylene	ND	1.0	0.14	0.25
Acetochlor	ND	1.0	0.25	0.25	Anthracene	ND	1.0	0.14	0.25
Benzidine	ND	1.0	0.23	1.3	Benzoic Acid	ND	1.0	1.0	2.5
Benzo (a) anthracene	ND	1.0	0.14	0.25	Benzo (b) fluoranthene	ND	1.0	0.14	0.25
Benzo (k) fluoranthene	ND	1.0	0.16	0.25	Benzo (g,h,i) perylene	ND	1.0	0.15	0.25
Benzo (a) pyrene	ND	1.0	0.14	0.25	Benzyl Alcohol	ND	1.0	0.51	1.3
1,1-Biphenyl	ND	1.0	0.15	0.25	Bis (2-chloroethoxy) Methane	ND	1.0	0.14	0.25
Bis (2-chloroethyl) Ether	ND	1.0	0.13	0.25	Bis (2-chloroisopropyl) Ether	ND	1.0	0.12	0.25
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.13	0.25	4-Bromophenyl Phenyl Ether	ND	1.0	0.16	0.25
Butylbenzyl Phthalate	ND	1.0	0.13	0.25	4-Chloroaniline	ND	1.0	0.13	0.25
4-Chloro-3-methylphenol	ND	1.0	0.12	0.25	2-Chloronaphthalene	ND	1.0	0.16	0.25
2-Chlorophenol	ND	1.0	0.14	0.25	4-Chlorophenyl Phenyl Ether	ND	1.0	0.15	0.25
Chrysene	ND	1.0	0.14	0.25	Dibenzo (a,h) anthracene	ND	1.0	0.16	0.25
Dibenzofuran	ND	1.0	0.13	0.25	Di-n-butyl Phthalate	ND	1.0	0.13	0.25
1,2-Dichlorobenzene	ND	1.0	0.12	0.25	1,3-Dichlorobenzene	ND	1.0	0.14	0.25
1,4-Dichlorobenzene	ND	1.0	0.13	0.25	3,3-Dichlorobenzidine	ND	1.0	0.12	0.5
2,4-Dichlorophenol	ND	1.0	0.13	0.25	Diethyl Phthalate	ND	1.0	0.14	0.25
2,4-Dimethylphenol	ND	1.0	0.13	0.25	Dimethyl Phthalate	ND	1.0	0.14	0.25
4,6-Dinitro-2-methylphenol	ND	1.0	0.13	1.3	2,4-Dinitrophenol	ND	1.0	1.3	6.3
2,4-Dinitrotoluene	ND	1.0	0.13	0.25	2,6-Dinitrotoluene	ND	1.0	0.14	0.25
Di-n-octyl Phthalate	ND	1.0	0.14	0.25	1,2-Diphenylhydrazine	ND	1.0	0.16	0.25
Fluoranthene	ND	1.0	0.13	0.25	Fluorene	ND	1.0	0.14	0.25
Hexachlorobenzene	ND	1.0	0.17	0.25	Hexachlorobutadiene	ND	1.0	0.15	0.25
Hexachlorocyclopentadiene	ND	1.0	0.73	1.3	Hexachloroethane	ND	1.0	0.14	0.25
Indeno (1,2,3-cd) pyrene	ND	1.0	0.14	0.25	Isophorone	ND	1.0	0.12	0.25
2-Methylnaphthalene	ND	1.0	0.14	0.25	2-Methylphenol (o-Cresol)	ND	1.0	0.14	0.25
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.12	0.25	Naphthalene	ND	1.0	0.13	0.25
2-Nitroaniline	ND	1.0	0.62	1.3	3-Nitroaniline	ND	1.0	0.59	1.3
4-Nitroaniline	ND	1.0	0.55	1.3	Nitrobenzene	ND	1.0	0.14	0.25
2-Nitrophenol	ND	1.0	0.64	1.3	4-Nitrophenol	ND	1.0	0.41	1.3
N-Nitrosodiphenylamine	ND	1.0	0.16	0.25	N-Nitrosodi-n-propylamine	ND	1.0	0.13	0.25
Pentachlorophenol	ND	1.0	0.061	1.3	Phenanthrene	ND	1.0	0.14	0.25
Phenol	ND	1.0	0.12	0.25	Pyrene	ND	1.0	0.13	0.25
1,2,4-Trichlorobenzene	ND	1.0	0.14	0.25	2,4,5-Trichlorophenol	ND	1.0	0.12	0.25
2,4,6-Trichlorophenol	ND	1.0	0.14	0.25					

Surrogate Recoveries (%)

%SS1:	107	%SS2:	96
%SS3:	77	%SS4:	87
%SS5:	79	%SS6:	82

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

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Quest GeoSystems Management	Client Project ID: #G09212012-01; Byron Power Company	Date Sampled: 12/21/12
		Date Received: 12/21/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted 12/21/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed 12/27/12

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method: SW5030B Analytical methods: SW8015Bm Work Order: 1212613

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	MW.02-8	S	ND	1	101	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

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Angela Rydelius, Lab Manager

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Quest GeoSystems Management	Client Project ID: #G09212012-01; Byron Power Company	Date Sampled: 12/21/12
		Date Received: 12/21/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/21/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 12/26/12

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550B Analytical methods: SW8015B Work Order: 1212613

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1212613-001A	MW.02-8	S	2.3	7.4	1	109	e7,e2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

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Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 73521 | WorkOrder: 1212613

EPA Method: SW8260B **Extraction: SW5030B** **Spiked Sample ID: 1212612-018A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	0.050	86.7	91	4.83	80.9	56 - 94	30	70 - 130
Benzene	ND	0.050	83.3	90.1	7.73	79.5	60 - 106	30	70 - 130
t-Butyl alcohol (TBA)	ND	0.20	86.7	93	6.80	111	56 - 140	30	70 - 130
Chlorobenzene	ND	0.050	82.3	86.3	4.72	85.8	61 - 108	30	70 - 130
1,2-Dibromoethane (EDB)	ND	0.050	85	88.2	3.61	96.9	54 - 119	30	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	0.050	82.6	88.2	6.55	78.1	48 - 115	30	70 - 130
1,1-Dichloroethene	ND	0.050	69	85.2	21.0	73.5	46 - 111	30	70 - 130
Diisopropyl ether (DIPE)	ND	0.050	80.3	85.7	6.55	79.4	53 - 111	30	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	0.050	82.6	86.6	4.78	82	61 - 104	30	70 - 130
Methyl-t-butyl ether (MTBE)	ND	0.050	86.9	91.9	5.58	86.2	58 - 107	30	70 - 130
Toluene	ND	0.050	84.1	89.1	5.74	85.7	64 - 114	30	70 - 130
Trichloroethene	ND	0.050	95.8	99	3.26	93.9	60 - 116	30	70 - 130
%SS1:	103	0.12	105	105	0	105	70 - 130	30	70 - 130
%SS2:	107	0.12	107	107	0	106	70 - 130	30	70 - 130
%SS3:	106	0.012	103	107	3.33	103	70 - 130	30	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73521 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212613-001A	12/21/12 11:20 AM	12/21/12	12/27/12 7:47 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 73615 | WorkOrder: 1212613

EPA Method: SW8270C **Extraction: SW3550B** **Spiked Sample ID: 1212612-009A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Acenaphthene	ND	5	105	109	4.03	86.4	30 - 130	30	30 - 130
4-Chloro-3-methylphenol	ND	5	101	117	14.3	75.2	30 - 130	30	30 - 130
2-Chlorophenol	ND	5	95.8	114	17.3	74.8	30 - 130	30	30 - 130
1,4-Dichlorobenzene	ND	5	73	74.3	1.79	72.3	30 - 130	30	30 - 130
2,4-Dinitrotoluene	ND	5	90.5	107	15.9	76.4	30 - 130	30	30 - 130
4-Nitrophenol	ND	5	63.8	73.3	13.8	50.3	30 - 130	30	30 - 130
N-Nitrosodi-n-propylamine	ND	5	78.9	93.3	16.6	61.2	30 - 130	30	30 - 130
Pentachlorophenol	ND	5	77.9	76.8	1.39	39.6	30 - 130	30	30 - 130
Phenol	ND	5	79.7	97.2	19.9	63.6	30 - 130	30	30 - 130
Pyrene	ND	5	99.4	101	1.84	84.6	30 - 130	30	30 - 130
1,2,4-Trichlorobenzene	ND	5	89	89.2	0.213	81.9	30 - 130	30	30 - 130
%SS1:	110	5	110	129	15.3	88	30 - 130	30	30 - 130
%SS2:	99	5	106	128	18.5	79	30 - 130	30	30 - 130
%SS3:	87	5	100	105	4.56	88	30 - 130	30	30 - 130
%SS4:	90	5	106	105	0.489	92	30 - 130	30	30 - 130
%SS5:	82	5	104	105	0.977	79	30 - 130	30	30 - 130
%SS6:	93	5	99	101	1.21	85	30 - 130	30	30 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73615 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212613-001A	12/21/12 11:20 AM	12/28/12	12/28/12 7:16 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and / or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix, sample diluted due to high matrix or analyte content, or MS/MSD samples diluted due to high organic content.

#) surrogate diluted out of range; & = low or no recovery of surrogate or target analytes due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 73523 | WorkOrder: 1212613

EPA Method: SW8021B/8015Bm **Extraction: SW5030B** **Spiked Sample ID: 1212613-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex)£	ND	0.60	110	97.5	12.1	102	70 - 130	20	70 - 130
MTBE	ND	0.10	108	103	5.46	105	70 - 130	20	70 - 130
Benzene	ND	0.10	103	100	3.24	100	70 - 130	20	70 - 130
Toluene	ND	0.10	101	98	3.06	98.6	70 - 130	20	70 - 130
Ethylbenzene	ND	0.10	103	98.4	4.27	101	70 - 130	20	70 - 130
Xylenes	ND	0.30	104	99.5	4.82	102	70 - 130	20	70 - 130
%SS:	101	0.10	90	86	4.21	92	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73523 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212613-001A	12/21/12 11:20 AM	12/21/12	12/27/12 1:36 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 73522 | WorkOrder: 1212613

EPA Method: SW8015B **Extraction: SW3550B** **Spiked Sample ID: 1212613-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	2.3	40	115	118	1.99	104	70 - 130	30	70 - 130
%SS:	109	25	103	104	0.983	90	70 - 130	30	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73522 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212613-001A	12/21/12 11:20 AM	12/21/12	12/26/12 8:18 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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Analytical Report

Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/28/12
		Date Received: 12/28/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Reported: 01/08/13
Rancho Cordova, CA 95742	Client P.O.:	Date Completed: 01/08/13

WorkOrder: 1212722

January 08, 2013

Dear Eric:

Enclosed within are:

1) The results of the **5** analyzed samples from your project: **G09212012-02; Byron Power Company,**
2) QC data for the above samples, and
3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

1212722

CHAIN OF CUSTODY RECORD

GSM
QUEST GEOSYSTEMS MANAGEMENT
11275 Sunrise Gold Circle, Suite R,
Rancho Cordova, California 95742

Project Name: Byron Power Company
Project Number: G09212012-02
Project Location: 4901 Bruns Road, Byron, California
Sampler Signature: Robert L. Nelson

PROJECT REPORTING
Company: Quest GeoSystems Management, Inc.
Attention: Mr. Eric W. Garcia — Phone: (925) 756-1210 — Fax: (925) 756-1227
Address: 11275 Sunrise Gold Cir, Suite R, Rancho Cordova, CA 95742
Email: ericgarcia@questgsm.com

PROJECT BILLING
Company: Quest GeoSystems Management, Inc.
Attention: Mr. Eric W. Garcia — Phone: (925) 756-1210 — Fax: (925) 756-1227
Address: 11275 Sunrise Gold Cir, Suite R, Rancho Cordova, CA 95742
Email: ericgarcia@questgsm.com

TURN AROUND TIME: RUSH ☐ 24 HOUR ☐ 48 HOUR ☐ 5 DAY ☒ OTHER: ☐
EDF Required? YES ☒ NO ☐

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# of Containers	Type of Containers	MATRIX Water	MATRIX soil	MATRIX Air	MATRIX Sludge	MATRIX Other	PRESERVATION METHOD Ice	PRESERVATION METHOD HCl	PRESERVATION METHOD HNO3	PRESERVATION METHOD Other	ANALYSIS REQUEST TPH-MR - 8015	VOC's - 8260B	SVOC's - 8270		TPH-G/MBTEX - 8015M/8021	COMMENTS
MW.01	MW.01	12/28/12	1325			X					X	X			X	X	X			
MW.02	MW.02	12/28/12	1230			X					X	X			X	X	X			
MW.03	MW.03	12/28/12	1350			X					X	X			X	X	X			
TRIP	---	---	---	2	VOA	X					X	X							X	
MW.04	MW.04		1110			X					X	X			X	X	X			

Relinquished By: Robert L. Nelson — Date: 12/28 — Time: 1806 — Received By:
Relinquished By: — Date: — Time: — Received By:

Remarks: ICE? Y
GOOD CONDITION ____ APPROPRIATE
HEAD SPACE ABSENT ____ CONTAINERS ____
DECHLORINATED IN LAB ____ PRESERVED IN LAB ____
PRESERVATION VOAS | O&G | METALS | OTHER

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1212722 **ClientCode: QGSM**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Eric Garcia
Quest GeoSystems Management
11275 Sunrise Gold Cir., Ste. R
Rancho Cordova, CA 95742
(925) 756-1210 FAX: (925) 756-1227

Email: eric.garcia@questgsm.com
cc:
PO:
ProjectNo: G09212012-02; Byron Power Company

Bill to:
Lexie Hinds
Quest GeoSystems Management
98 Daisyfield Drive
Livermore, CA 94551
lexiehinds@yahoo.com

Requested TAT: **5 days**

Date Received: **12/28/2012**
Date Printed: **12/28/2012**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1212722-001	MW.01	Water	12/28/2012 13:25	☐	B	C	A	B								
1212722-002	MW.02	Water	12/28/2012 12:30	☐	B	C	A									
1212722-003	MW.03	Water	12/28/2012 13:50	☐	B	C	A									
1212722-005	MW.04	Water	12/28/2012 11:10	☐	B	C	A									

Test Legend:

1	8260B_W	2	8270D_W	3	G-MBTEX_W	4	PREDF REPORT	5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 005A contain testgroup.

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Sample Receipt Checklist

Client Name: **Quest GeoSystems Management**
Date and Time Received: **12/28/2012 9:59:50 PM**

Project Name: **G09212012-02; Byron Power Company**
LogIn Reviewed by: Zoraida Cortez

WorkOrder N°: **1212722** Matrix: Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 3.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Comments:

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/28/12
		Date Received: 12/28/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 01/04/13
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 01/04/13

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212722

Lab ID	1212722-001B
Client ID	MW.01
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	98	%SS2:	101
%SS3:	74		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/28/12
		Date Received: 12/28/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 01/04/13
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 01/04/13

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212722

Lab ID	1212722-002B
Client ID	MW.02
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	99	%SS2:	98
%SS3:	76		

Comments: b1

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/28/12
		Date Received: 12/28/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 01/04/13
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 01/04/13

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212722

Lab ID	1212722-003B
Client ID	MW.03
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	0.85	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	6.8	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	0.65	1.0	0.5
Naphthalene	1.4	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	0.72	1.0	0.5

Surrogate Recoveries (%)

%SS1:	98	%SS2:	98
%SS3:	75		

Comments: b1

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/28/12
		Date Received: 12/28/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 01/04/13
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 01/04/13

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1212722

Lab ID	1212722-005B
Client ID	MW.04
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	94	%SS2:	96
%SS3:	75		

Comments: b1

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/28/12
		Date Received: 12/28/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 01/03/13
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 01/07/13

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270C | Work Order: 1212722

Lab ID	1212722-001C
Client ID	MW.01
Matrix	Water

Compound	Conc. *	DF	MDL	RL	Compound	Conc. *	DF	MDL	RL
Acenaphthene	ND<0.26	1.0	0.24	2.0	Acenaphthylene	ND<0.28	1.0	0.26	2.0
Acetochlor	ND<1.1	1.0	1.0	2.0	Anthracene	ND<0.16	1.0	0.15	2.0
Benzidine	ND<0.31	1.0	0.29	10	Benzoic Acid	5.9,J	1.0	4.7	25
Benzo (a) anthracene	ND<0.17	1.0	0.16	2.0	Benzo (b) fluoranthene	ND<0.17	1.0	0.16	2.0
Benzo (k) fluoranthene	ND<0.21	1.0	0.2	2.0	Benzo (g,h,i) perylene	ND<0.19	1.0	0.18	2.0
Benzo (a) pyrene	ND<0.18	1.0	0.17	2.0	Benzyl Alcohol	ND<1.6	1.0	1.5	10
1,1-Biphenyl	ND<0.28	1.0	0.26	2.0	Bis (2-chloroethoxy) Methane	ND<0.32	1.0	0.3	2.0
Bis (2-chloroethyl) Ether	ND<0.26	1.0	0.24	2.0	Bis (2-chloroisopropyl) Ether	ND<0.30	1.0	0.28	2.0
Bis (2-ethylhexyl) Adipate	ND<2.1	1.0	2.0	2.0	Bis (2-ethylhexyl) Phthalate	ND<10	1.0	0.34	4.0
4-Bromophenyl Phenyl Ether	ND<0.18	1.0	0.17	10	Butylbenzyl Phthalate	ND<0.31	1.0	0.29	2.0
4-Chloroaniline	ND<0.35	1.0	0.33	4.0	4-Chloro-3-methylphenol	ND<0.29	1.0	0.27	10
2-Chloronaphthalene	ND<0.27	1.0	0.25	2.0	2-Chlorophenol	ND<0.28	1.0	0.26	2.0
4-Chlorophenyl Phenyl Ether	ND<0.21	1.0	0.2	2.0	Chrysene	ND<0.19	1.0	0.18	2.0
Dibenzo (a,h) anthracene	ND<0.20	1.0	0.19	2.0	Dibenzofuran	ND<0.22	1.0	0.21	2.0
Di-n-butyl Phthalate	ND<0.32	1.0	0.3	2.0	1,2-Dichlorobenzene	ND<0.24	1.0	0.23	2.0
1,3-Dichlorobenzene	ND<0.23	1.0	0.22	2.0	1,4-Dichlorobenzene	ND<0.23	1.0	0.22	2.0
3,3-Dichlorobenzidine	ND<0.15	1.0	0.14	4.0	2,4-Dichlorophenol	ND<0.30	1.0	0.28	2.0
Diethyl Phthalate	ND<0.16	1.0	0.15	2.0	2,4-Dimethylphenol	ND<0.10	1.0	0.098	2.0
Dimethyl Phthalate	ND<0.19	1.0	0.18	2.0	4,6-Dinitro-2-methylphenol	ND<1.0	1.0	0.98	10
2,4-Dinitrophenol	ND<0.93	1.0	0.87	25	2,4-Dinitrotoluene	ND<0.18	1.0	0.17	2.0
2,6-Dinitrotoluene	ND<0.21	1.0	0.2	2.0	Di-n-octyl Phthalate	ND<0.29	1.0	0.27	2.0
1,2-Diphenylhydrazine	ND<0.17	1.0	0.16	2.0	Fluoranthene	ND<0.19	1.0	0.18	2.0
Fluorene	ND<0.21	1.0	0.2	2.0	Hexachlorobenzene	ND<0.19	1.0	0.18	2.0
Hexachlorobutadiene	ND<0.26	1.0	0.24	2.0	Hexachlorocyclopentadiene	ND<1.3	1.0	1.2	10
Hexachloroethane	ND<0.31	1.0	0.29	2.0	Indeno (1,2,3-cd) pyrene	ND<0.20	1.0	0.19	2.0
Isophorone	ND<0.34	1.0	0.32	2.0	2-Methylnaphthalene	ND<0.31	1.0	0.29	2.0
2-Methylphenol (o-Cresol)	ND<0.20	1.0	0.19	2.0	3 &/or 4-Methylphenol (m,p-Cresol)	ND<0.20	1.0	0.19	2.0
Naphthalene	ND<0.26	1.0	0.24	2.0	2-Nitroaniline	ND<1.4	1.0	1.3	10
3-Nitroaniline	ND<1.3	1.0	1.2	10	4-Nitroaniline	ND<1.3	1.0	1.2	10
Nitrobenzene	ND<0.34	1.0	0.32	2.0	2-Nitrophenol	ND<1.5	1.0	1.4	10
4-Nitrophenol	ND<1.8	1.0	1.7	10	N-Nitrosodiphenylamine	ND<0.19	1.0	0.18	2.0
N-Nitrosodi-n-propylamine	ND<0.37	1.0	0.35	2.0	Pentachlorophenol	ND<0.53	1.0	0.5	10
Phenanthrene	ND<0.23	1.0	0.22	2.0	Phenol	ND<0.36	1.0	0.34	2.0
Pyrene	ND<0.26	1.0	0.24	2.0	1,2,4-Trichlorobenzene	ND<0.23	1.0	0.22	2.0
2,4,5-Trichlorophenol	ND<0.22	1.0	0.21	2.0	2,4,6-Trichlorophenol	ND<0.24	1.0	0.23	2.0

Surrogate Recoveries (%)

%SS1:	53	%SS2:	38
%SS3:	74	%SS4:	86
%SS5:	75	%SS6:	85

Comments:

* water samples are reported in µg/L; reporting limit may change due to variable water sample volume.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor; #) surrogate diluted out of range or surrogate coelutes with another peak.

J) analyte detected below quantitation limits
b1) aqueous sample that contains greater than ~1 vol. % sediment

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/28/12
		Date Received: 12/28/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 01/03/13
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 01/07/13

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270C | Work Order: 1212722

Lab ID	1212722-002C
Client ID	MW.02
Matrix	Water

Compound	Conc. *	DF	MDL	RL	Compound	Conc. *	DF	MDL	RL
Acenaphthene	ND<0.25	1.0	0.24	2.0	Acenaphthylene	ND<0.27	1.0	0.26	2.0
Acetochlor	ND	1.0	1.0	2.0	Anthracene	ND<0.16	1.0	0.15	2.0
Benzidine	ND<0.30	1.0	0.29	10	Benzoic Acid	ND<4.9	1.0	4.7	25
Benzo (a) anthracene	ND<0.17	1.0	0.16	2.0	Benzo (b) fluoranthene	ND<0.17	1.0	0.16	2.0
Benzo (k) fluoranthene	ND<0.21	1.0	0.2	2.0	Benzo (g,h,i) perylene	ND<0.19	1.0	0.18	2.0
Benzo (a) pyrene	ND<0.18	1.0	0.17	2.0	Benzyl Alcohol	ND<1.6	1.0	1.5	10
1,1-Biphenyl	ND<0.27	1.0	0.26	2.0	Bis (2-chloroethoxy) Methane	ND<0.31	1.0	0.3	2.0
Bis (2-chloroethyl) Ether	ND<0.25	1.0	0.24	2.0	Bis (2-chloroisopropyl) Ether	ND<0.29	1.0	0.28	2.0
Bis (2-ethylhexyl) Adipate	ND<2.1	1.0	2.0	2.0	Bis (2-ethylhexyl) Phthalate	ND<6.0	1.0	0.34	4.0
4-Bromophenyl Phenyl Ether	ND<0.18	1.0	0.17	10	Butylbenzyl Phthalate	ND<0.30	1.0	0.29	2.0
4-Chloroaniline	ND<0.34	1.0	0.33	4.0	4-Chloro-3-methylphenol	ND<0.28	1.0	0.27	10
2-Chloronaphthalene	ND<0.26	1.0	0.25	2.0	2-Chlorophenol	ND<0.27	1.0	0.26	2.0
4-Chlorophenyl Phenyl Ether	ND<0.21	1.0	0.2	2.0	Chrysene	ND<0.19	1.0	0.18	2.0
Dibenzo (a,h) anthracene	ND<0.20	1.0	0.19	2.0	Dibenzofuran	ND<0.22	1.0	0.21	2.0
Di-n-butyl Phthalate	ND<0.31	1.0	0.3	2.0	1,2-Dichlorobenzene	ND<0.24	1.0	0.23	2.0
1,3-Dichlorobenzene	ND<0.23	1.0	0.22	2.0	1,4-Dichlorobenzene	ND<0.23	1.0	0.22	2.0
3,3-Dichlorobenzidine	ND<0.15	1.0	0.14	4.0	2,4-Dichlorophenol	ND<0.29	1.0	0.28	2.0
Diethyl Phthalate	ND<0.16	1.0	0.15	2.0	2,4-Dimethylphenol	ND<0.10	1.0	0.098	2.0
Dimethyl Phthalate	ND<0.19	1.0	0.18	2.0	4,6-Dinitro-2-methylphenol	ND<1.0	1.0	0.98	10
2,4-Dinitrophenol	ND<0.91	1.0	0.87	25	2,4-Dinitrotoluene	ND<0.18	1.0	0.17	2.0
2,6-Dinitrotoluene	ND<0.21	1.0	0.2	2.0	Di-n-octyl Phthalate	ND<0.28	1.0	0.27	2.0
1,2-Diphenylhydrazine	ND<0.17	1.0	0.16	2.0	Fluoranthene	ND<0.19	1.0	0.18	2.0
Fluorene	ND<0.21	1.0	0.2	2.0	Hexachlorobenzene	ND<0.19	1.0	0.18	2.0
Hexachlorobutadiene	ND<0.25	1.0	0.24	2.0	Hexachlorocyclopentadiene	ND<1.3	1.0	1.2	10
Hexachloroethane	ND<0.30	1.0	0.29	2.0	Indeno (1,2,3-cd) pyrene	ND<0.20	1.0	0.19	2.0
Isophorone	ND<0.33	1.0	0.32	2.0	2-Methylnaphthalene	ND<0.30	1.0	0.29	2.0
2-Methylphenol (o-Cresol)	ND<0.20	1.0	0.19	2.0	3 &/or 4-Methylphenol (m,p-Cresol)	ND<0.20	1.0	0.19	2.0
Naphthalene	ND<0.25	1.0	0.24	2.0	2-Nitroaniline	ND<1.4	1.0	1.3	10
3-Nitroaniline	ND<1.3	1.0	1.2	10	4-Nitroaniline	ND<1.3	1.0	1.2	10
Nitrobenzene	ND<0.33	1.0	0.32	2.0	2-Nitrophenol	ND<1.5	1.0	1.4	10
4-Nitrophenol	ND<1.8	1.0	1.7	10	N-Nitrosodiphenylamine	ND<0.19	1.0	0.18	2.0
N-Nitrosodi-n-propylamine	ND<0.37	1.0	0.35	2.0	Pentachlorophenol	ND<0.52	1.0	0.5	10
Phenanthrene	ND<0.23	1.0	0.22	2.0	Phenol	ND<0.35	1.0	0.34	2.0
Pyrene	ND<0.25	1.0	0.24	2.0	1,2,4-Trichlorobenzene	ND<0.23	1.0	0.22	2.0
2,4,5-Trichlorophenol	ND<0.22	1.0	0.21	2.0	2,4,6-Trichlorophenol	ND<0.24	1.0	0.23	2.0

Surrogate Recoveries (%)

%SS1:	26	%SS2:	19
%SS3:	56	%SS4:	69
%SS5:	47	%SS6:	75

Comments: b1

* water samples are reported in µg/L; reporting limit may change due to variable water sample volume.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor; #) surrogate diluted out of range or surrogate coelutes with another peak.

J) analyte detected below quantitation limits
b1) aqueous sample that contains greater than ~1 vol. % sediment

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/28/12
		Date Received: 12/28/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 01/03/13
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 01/07/13

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270C | Work Order: 1212722

Lab ID	1212722-003C
Client ID	MW.03
Matrix	Water

Compound	Conc. *	DF	MDL	RL	Compound	Conc. *	DF	MDL	RL
Acenaphthene	ND<0.28	1.0	0.24	2.0	Acenaphthylene	ND<0.30	1.0	0.26	2.0
Acetochlor	ND<1.2	1.0	1.0	2.0	Anthracene	ND<0.17	1.0	0.15	2.0
Benzidine	ND<0.34	1.0	0.29	10	Benzoic Acid	ND<5.5	1.0	4.7	25
Benzo (a) anthracene	ND<0.19	1.0	0.16	2.0	Benzo (b) fluoranthene	ND<0.19	1.0	0.16	2.0
Benzo (k) fluoranthene	ND<0.23	1.0	0.2	2.0	Benzo (g,h,i) perylene	ND<0.21	1.0	0.18	2.0
Benzo (a) pyrene	ND<0.20	1.0	0.17	2.0	Benzyl Alcohol	ND<1.7	1.0	1.5	10
1,1-Biphenyl	ND<0.30	1.0	0.26	2.0	Bis (2-chloroethoxy) Methane	ND<0.35	1.0	0.3	2.0
Bis (2-chloroethyl) Ether	ND<0.28	1.0	0.24	2.0	Bis (2-chloroisopropyl) Ether	ND<0.33	1.0	0.28	2.0
Bis (2-ethylhexyl) Adipate	ND<2.3	1.0	2.0	2.0	Bis (2-ethylhexyl) Phthalate	ND<6.0	1.0	0.34	4.0
4-Bromophenyl Phenyl Ether	ND<0.20	1.0	0.17	10	Butylbenzyl Phthalate	ND<0.34	1.0	0.29	2.0
4-Chloroaniline	ND<0.38	1.0	0.33	4.0	4-Chloro-3-methylphenol	ND<0.31	1.0	0.27	10
2-Chloronaphthalene	ND<0.29	1.0	0.25	2.0	2-Chlorophenol	ND<0.30	1.0	0.26	2.0
4-Chlorophenyl Phenyl Ether	ND<0.23	1.0	0.2	2.0	Chrysene	ND<0.21	1.0	0.18	2.0
Dibenzo (a,h) anthracene	ND<0.22	1.0	0.19	2.0	Dibenzofuran	ND<0.24	1.0	0.21	2.0
Di-n-butyl Phthalate	ND<0.35	1.0	0.3	2.0	1,2-Dichlorobenzene	ND<0.27	1.0	0.23	2.0
1,3-Dichlorobenzene	ND<0.26	1.0	0.22	2.0	1,4-Dichlorobenzene	ND<0.26	1.0	0.22	2.0
3,3-Dichlorobenzidine	ND<0.16	1.0	0.14	4.0	2,4-Dichlorophenol	ND<0.33	1.0	0.28	2.0
Diethyl Phthalate	ND<0.17	1.0	0.15	2.0	2,4-Dimethylphenol	ND<0.11	1.0	0.098	2.0
Dimethyl Phthalate	ND<0.21	1.0	0.18	2.0	4,6-Dinitro-2-methylphenol	ND<1.1	1.0	0.98	10
2,4-Dinitrophenol	ND<1.0	1.0	0.87	25	2,4-Dinitrotoluene	ND<0.20	1.0	0.17	2.0
2,6-Dinitrotoluene	ND<0.23	1.0	0.2	2.0	Di-n-octyl Phthalate	ND<0.31	1.0	0.27	2.0
1,2-Diphenylhydrazine	ND<0.19	1.0	0.16	2.0	Fluoranthene	ND<0.21	1.0	0.18	2.0
Fluorene	ND<0.23	1.0	0.2	2.0	Hexachlorobenzene	ND<0.21	1.0	0.18	2.0
Hexachlorobutadiene	ND<0.28	1.0	0.24	2.0	Hexachlorocyclopentadiene	ND<1.4	1.0	1.2	10
Hexachloroethane	ND<0.34	1.0	0.29	2.0	Indeno (1,2,3-cd) pyrene	ND<0.22	1.0	0.19	2.0
Isophorone	ND<0.37	1.0	0.32	2.0	2-Methylnaphthalene	ND<0.34	1.0	0.29	2.0
2-Methylphenol (o-Cresol)	ND<0.22	1.0	0.19	2.0	3 &/or 4-Methylphenol (m,p-Cresol)	ND<0.22	1.0	0.19	2.0
Naphthalene	0.75,J	1.0	0.24	2.0	2-Nitroaniline	ND<1.5	1.0	1.3	10
3-Nitroaniline	ND<1.4	1.0	1.2	10	4-Nitroaniline	ND<1.4	1.0	1.2	10
Nitrobenzene	ND<0.37	1.0	0.32	2.0	2-Nitrophenol	ND<1.6	1.0	1.4	10
4-Nitrophenol	ND<2.0	1.0	1.7	10	N-Nitrosodiphenylamine	ND<0.21	1.0	0.18	2.0
N-Nitrosodi-n-propylamine	ND<0.41	1.0	0.35	2.0	Pentachlorophenol	ND<0.58	1.0	0.5	10
Phenanthrene	ND<0.26	1.0	0.22	2.0	Phenol	ND<0.40	1.0	0.34	2.0
Pyrene	ND<0.28	1.0	0.24	2.0	1,2,4-Trichlorobenzene	ND<0.26	1.0	0.22	2.0
2,4,5-Trichlorophenol	ND<0.24	1.0	0.21	2.0	2,4,6-Trichlorophenol	ND<0.27	1.0	0.23	2.0

Surrogate Recoveries (%)

%SS1:	28	%SS2:	31
%SS3:	64	%SS4:	77
%SS5:	16	%SS6:	79

Comments: b1

* water samples are reported in µg/L; reporting limit may change due to variable water sample volume.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor; #) surrogate diluted out of range or surrogate coelutes with another peak.

J) analyte detected below quantitation limits
b1) aqueous sample that contains greater than ~1 vol. % sediment

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/28/12
		Date Received: 12/28/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 01/03/13
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 01/07/13

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270C | Work Order: 1212722

Lab ID	1212722-005C
Client ID	MW.04
Matrix	Water

Compound	Conc. *	DF	MDL	RL	Compound	Conc. *	DF	MDL	RL
Acenaphthene	ND<0.27	1.0	0.24	2.0	Acenaphthylene	ND<0.29	1.0	0.26	2.0
Acetochlor	ND<1.1	1.0	1.0	2.0	Anthracene	ND<0.17	1.0	0.15	2.0
Benzidine	ND<0.32	1.0	0.29	10	Benzoic Acid	6.3,J	1.0	4.7	25
Benzo (a) anthracene	ND<0.18	1.0	0.16	2.0	Benzo (b) fluoranthene	ND<0.18	1.0	0.16	2.0
Benzo (k) fluoranthene	ND<0.22	1.0	0.2	2.0	Benzo (g,h,i) perylene	ND<0.20	1.0	0.18	2.0
Benzo (a) pyrene	ND<0.19	1.0	0.17	2.0	Benzyl Alcohol	ND<1.7	1.0	1.5	10
1,1-Biphenyl	ND<0.29	1.0	0.26	2.0	Bis (2-chloroethoxy) Methane	ND<0.33	1.0	0.3	2.0
Bis (2-chloroethyl) Ether	ND<0.27	1.0	0.24	2.0	Bis (2-chloroisopropyl) Ether	ND<0.31	1.0	0.28	2.0
Bis (2-ethylhexyl) Adipate	ND<2.2	1.0	2.0	2.0	Bis (2-ethylhexyl) Phthalate	ND<16	1.0	0.34	4.0
4-Bromophenyl Phenyl Ether	ND<0.19	1.0	0.17	10	Butylbenzyl Phthalate	ND<0.32	1.0	0.29	2.0
4-Chloroaniline	ND<0.37	1.0	0.33	4.0	4-Chloro-3-methylphenol	ND<0.30	1.0	0.27	10
2-Chloronaphthalene	ND<0.28	1.0	0.25	2.0	2-Chlorophenol	ND<0.29	1.0	0.26	2.0
4-Chlorophenyl Phenyl Ether	ND<0.22	1.0	0.2	2.0	Chrysene	ND<0.20	1.0	0.18	2.0
Dibenzo (a,h) anthracene	ND<0.21	1.0	0.19	2.0	Dibenzofuran	ND<0.23	1.0	0.21	2.0
Di-n-butyl Phthalate	ND<0.33	1.0	0.3	2.0	1,2-Dichlorobenzene	ND<0.25	1.0	0.23	2.0
1,3-Dichlorobenzene	ND<0.24	1.0	0.22	2.0	1,4-Dichlorobenzene	ND<0.24	1.0	0.22	2.0
3,3-Dichlorobenzidine	ND<0.15	1.0	0.14	4.0	2,4-Dichlorophenol	ND<0.31	1.0	0.28	2.0
Diethyl Phthalate	ND<0.17	1.0	0.15	2.0	2,4-Dimethylphenol	ND<0.11	1.0	0.098	2.0
Dimethyl Phthalate	ND<0.20	1.0	0.18	2.0	4,6-Dinitro-2-methylphenol	ND<1.1	1.0	0.98	10
2,4-Dinitrophenol	ND<0.96	1.0	0.87	25	2,4-Dinitrotoluene	ND<0.19	1.0	0.17	2.0
2,6-Dinitrotoluene	ND<0.22	1.0	0.2	2.0	Di-n-octyl Phthalate	ND<0.30	1.0	0.27	2.0
1,2-Diphenylhydrazine	ND<0.18	1.0	0.16	2.0	Fluoranthene	ND<0.20	1.0	0.18	2.0
Fluorene	ND<0.22	1.0	0.2	2.0	Hexachlorobenzene	ND<0.20	1.0	0.18	2.0
Hexachlorobutadiene	ND<0.27	1.0	0.24	2.0	Hexachlorocyclopentadiene	ND<1.3	1.0	1.2	10
Hexachloroethane	ND<0.32	1.0	0.29	2.0	Indeno (1,2,3-cd) pyrene	ND<0.21	1.0	0.19	2.0
Isophorone	ND<0.35	1.0	0.32	2.0	2-Methylnaphthalene	ND<0.32	1.0	0.29	2.0
2-Methylphenol (o-Cresol)	ND<0.21	1.0	0.19	2.0	3 &/or 4-Methylphenol (m,p-Cresol)	ND<0.21	1.0	0.19	2.0
Naphthalene	ND<0.27	1.0	0.24	2.0	2-Nitroaniline	ND<1.4	1.0	1.3	10
3-Nitroaniline	ND<1.3	1.0	1.2	10	4-Nitroaniline	ND<1.3	1.0	1.2	10
Nitrobenzene	ND<0.35	1.0	0.32	2.0	2-Nitrophenol	ND<1.5	1.0	1.4	10
4-Nitrophenol	ND<1.9	1.0	1.7	10	N-Nitrosodiphenylamine	ND<0.20	1.0	0.18	2.0
N-Nitrosodi-n-propylamine	ND<0.39	1.0	0.35	2.0	Pentachlorophenol	ND<0.55	1.0	0.5	10
Phenanthrene	ND<0.24	1.0	0.22	2.0	Phenol	ND<0.38	1.0	0.34	2.0
Pyrene	ND<0.27	1.0	0.24	2.0	1,2,4-Trichlorobenzene	ND<0.24	1.0	0.22	2.0
2,4,5-Trichlorophenol	ND<0.23	1.0	0.21	2.0	2,4,6-Trichlorophenol	ND<0.25	1.0	0.23	2.0

Surrogate Recoveries (%)

%SS1:	40	%SS2:	30
%SS3:	81	%SS4:	94
%SS5:	66	%SS6:	84

Comments: b1

* water samples are reported in µg/L; reporting limit may change due to variable water sample volume.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor; #) surrogate diluted out of range or surrogate coelutes with another peak.

J) analyte detected below quantitation limits
b1) aqueous sample that contains greater than ~1 vol. % sediment

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/28/12
		Date Received: 12/28/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 01/03/13
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 01/03/13

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1212722

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
004A	Trip	W	ND	ND	ND	ND	ND	ND	1	103	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/28/12
		Date Received: 12/28/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted 01/03/13
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed 01/03/13

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method: SW5030B Analytical methods: SW8015Bm Work Order: 1212722

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	MW.01	W	ND	1	108	
002A	MW.02	W	ND	1	105	b1
003A	MW.03	W	51	1	113	d9,b1
005A	MW.04	W	ND	1	104	b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
b1) aqueous sample that contains greater than ~1 vol. % sediment
d9) no recognizable pattern

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Quest GeoSystems Management	Client Project ID: G09212012-02; Byron Power Company	Date Sampled: 12/28/12
		Date Received: 12/28/12
11275 Sunrise Gold Cir., Ste. R	Client Contact: Eric Garcia	Date Extracted: 12/28/12
Rancho Cordova, CA 95742	Client P.O.:	Date Analyzed: 01/03/13-01/05/13

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C Analytical methods: SW8015B Work Order: 1212722

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1212722-001A	MW.01	W	27,J	ND	1	96	
1212722-002A	MW.02	W	41,J	ND	1	98	b1
1212722-003A	MW.03	W	120	ND	1	103	e2,b1
1212722-005A	MW.04	W	56	ND	1	115	e2,b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

* water samples are reported in µg/L, filter samples samples in µg/filter, µg/wipe in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
J) analyte detected below quantitation limits
b1) aqueous sample that contains greater than ~1 vol. % sediment
e2) diesel range compounds are significant; no recognizable pattern

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water | QC Matrix: Water | BatchID: 73691 | WorkOrder: 1212722

EPA Method: SW8021B/8015Bm **Extraction: SW5030B** **Spiked Sample ID: 1212713-005A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex)£	ND	60	103	96.8	5.75	115	70 - 130	20	70 - 130
MTBE	ND	10	84.6	82.3	2.82	77.9	70 - 130	20	70 - 130
Benzene	ND	10	94.1	94.5	0.431	110	70 - 130	20	70 - 130
Toluene	ND	10	94.3	94.8	0.541	111	70 - 130	20	70 - 130
Ethylbenzene	ND	10	93.5	94.4	0.966	111	70 - 130	20	70 - 130
Xylenes	ND	30	92.1	93.5	1.49	112	70 - 130	20	70 - 130
%SS:	99	10	97	104	7.08	105	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73691 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212722-001A	12/28/12 1:25 PM	01/03/13	01/03/13 10:42 PM	1212722-002A	12/28/12 12:30 PM	01/03/13	01/03/13 3:52 AM
1212722-003A	12/28/12 1:50 PM	01/03/13	01/03/13 11:11 PM	1212722-004A	12/28/12	01/03/13	01/03/13 9:13 PM
1212722-005A	12/28/12 11:10 AM	01/03/13	01/03/13 5:20 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water | QC Matrix: Water | BatchID: 73724 | WorkOrder: 1212722

EPA Method: SW8260B **Extraction: SW5030B** **Spiked Sample ID: 1212716-003A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	10	83.6	82.8	0.973	89.7	70 - 130	20	70 - 130
Benzene	ND	10	87.2	87.6	0.465	100	70 - 130	20	70 - 130
t-Butyl alcohol (TBA)	ND	40	82.8	78.2	5.74	83.1	70 - 130	20	70 - 130
Chlorobenzene	ND	10	91.1	90.3	0.871	95.4	70 - 130	20	70 - 130
1,2-Dibromoethane (EDB)	ND	10	95.4	89.4	6.51	92	70 - 130	20	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	82.6	83.7	1.24	89.6	70 - 130	20	70 - 130
1,1-Dichloroethene	ND	10	91.3	93.3	2.23	103	70 - 130	20	70 - 130
Diisopropyl ether (DIPE)	ND	10	83.8	83.9	0.0333	93	70 - 130	20	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	85.7	85.5	0.228	92.8	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	87.7	87.1	0.762	91.7	70 - 130	20	70 - 130
Toluene	ND	10	85.5	86.7	1.38	90.6	70 - 130	20	70 - 130
Trichloroethene	ND	10	91.9	92.2	0.326	104	70 - 130	20	70 - 130
%SS1:	96	25	98	100	2.23	107	70 - 130	20	70 - 130
%SS2:	100	25	95	97	2.48	96	70 - 130	20	70 - 130
%SS3:	79	2.5	74	75	2.16	72	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73724 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212722-001B	12/28/12 1:25 PM	01/04/13	01/04/13 3:58 AM	1212722-002B	12/28/12 12:30 PM	01/04/13	01/04/13 4:40 AM
1212722-003B	12/28/12 1:50 PM	01/04/13	01/04/13 6:16 PM	1212722-005B	12/28/12 11:10 AM	01/04/13	01/04/13 6:57 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water | QC Matrix: Water | BatchID: 73609 | WorkOrder: 1212722

EPA Method: SW8015B **Extraction: SW3510C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	108	N/A	N/A	70 - 130
%SS:	N/A	625	N/A	N/A	N/A	99	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73609 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212722-001A	12/28/12 1:25 PM	12/28/12	01/03/13 5:15 PM	1212722-002A	12/28/12 12:30 PM	12/28/12	01/03/13 10:02 PM
1212722-003A	12/28/12 1:50 PM	12/28/12	01/03/13 2:29 PM	1212722-005A	12/28/12 11:10 AM	12/28/12	01/05/13 10:39 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

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"When Quality Counts"

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QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Water | QC Matrix: Water | BatchID: 73679 | WorkOrder: 1212722

EPA Method: SW8270C **Extraction: SW3510C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Acenaphthene	N/A	20	N/A	N/A	N/A	63.1	N/A	N/A	47 - 145
4-Chloro-3-methylphenol	N/A	20	N/A	N/A	N/A	58.5	N/A	N/A	22 - 147
2-Chlorophenol	N/A	20	N/A	N/A	N/A	60.6	N/A	N/A	23 - 134
1,4-Dichlorobenzene	N/A	20	N/A	N/A	N/A	62.8	N/A	N/A	20 - 124
2,4-Dinitrotoluene	N/A	20	N/A	N/A	N/A	54	N/A	N/A	39 - 139
4-Nitrophenol	N/A	100	N/A	N/A	N/A	12.8	N/A	N/A	0 - 132
N-Nitrosodi-n-propylamine	N/A	20	N/A	N/A	N/A	62.4	N/A	N/A	0 - 230
Pentachlorophenol	N/A	40	N/A	N/A	N/A	55.9	N/A	N/A	14 - 176
Phenol	N/A	20	N/A	N/A	N/A	22.1	N/A	N/A	5 - 112
Pyrene	N/A	20	N/A	N/A	N/A	65.1	N/A	N/A	52 - 115
1,2,4-Trichlorobenzene	N/A	20	N/A	N/A	N/A	64.8	N/A	N/A	44 - 142
%SS1:	N/A	20	N/A	N/A	N/A	45	N/A	N/A	1 - 134
%SS2:	N/A	20	N/A	N/A	N/A	28	N/A	N/A	1 - 112
%SS3:	N/A	20	N/A	N/A	N/A	74	N/A	N/A	1 - 180
%SS4:	N/A	20	N/A	N/A	N/A	74	N/A	N/A	1 - 130
%SS5:	N/A	20	N/A	N/A	N/A	71	N/A	N/A	1 - 144
%SS6:	N/A	20	N/A	N/A	N/A	67	N/A	N/A	1 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 73679 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212722-001C	12/28/12 1:25 PM	01/03/13	01/07/13 1:49 PM	1212722-002C	12/28/12 12:30 PM	01/03/13	01/07/13 7:30 PM
1212722-003C	12/28/12 1:50 PM	01/03/13	01/07/13 7:58 PM	1212722-005C	12/28/12 11:10 AM	01/03/13	01/07/13 1:21 PM

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Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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