REVISED SITE INVESTIGATION REPORT

The Landing – Mt. Shasta Commerce Park
South Mt. Shasta Boulevard
Mt. Shasta, California

Prepared For:

Siskiyou County Economic Development
1512 S. Oregon Street
Yreka, CA 96097

TRC Project No.
202311.0000

May 28, 2015

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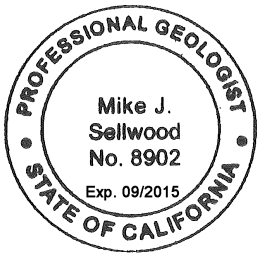

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1.0 INTRODUCTION

TRC is pleased to submit this Revised Site Investigation Report documenting Site assessment activities performed at The Landing, Mt. Shasta Commerce Park (formerly Roseburg Lumber Mill), located on South Mt. Shasta Boulevard in Mt. Shasta, California (the Site, *Figure 1*).

The objective of this groundwater investigation was to delineate impacts in soil and groundwater from Total Petroleum Hydrocarbons (TPH), pentachlorophenol (PCP), polychlorinated biphenyls (PCBs), and dioxins and furans.

The scope of work for this project included the following:

- Advancement of thirty-one (31) exploratory soil borings;
- Collection of depth discrete soil samples for chemical analysis at a state-certified laboratory;
- Collection of one (1) grab groundwater sample for chemical analysis at a state-certified laboratory.

2.0 DEVIATIONS FROM PROPOSED SAMPLING AND ANALYSIS PLAN

- A drill rig was unable to access the proposed locations in the vicinity of the Box Factory burner due to large piles of dirt and debris and a structural concrete retaining wall that was part of the former burner. Therefore, the four (4) locations proposed for the former burner area were completed by hand auger. As a result of hard soil conditions the hand auger could not be advanced to the 15 foot below ground surface (ft bgs) depth as proposed in the SAP.

- The four (4) groundwater monitoring wells (MW-1 through MW-4) were neither developed nor sampled due to insufficient volume of groundwater in the wells. The sand filter pack present in the annular space around the monitoring well screens may be clogged due to the presence of abundant fine sediment resulting in a lack of groundwater recharge in the wells.

- Due to the inability to sample the existing onsite groundwater wells the proposed New Mill dip tank grab GW sample location was moved from DIPT-6 to DIPT-1 in order to target the area of the dip tank that had elevated PCP detections in groundwater during past site investigations.

3.0 GEOLOGY AND HYDROGEOLOGY

The Site is located on the southwestern side of Mt. Shasta, a composite volcano near the southern end of the Cascade Range. Bedrock beneath the Site is encountered at a depth of approximately 50 ft bgs, and is composed of Pleistocene volcanic debris flow, ash, and tuft deposits, and Pleistocene volcanic rock such as andesite. Site soils are typically gravelly sandy clay to clayey sands with some volcanic cobbles (URS, 2009).

During this investigation groundwater was encountered at DIPT-1 at a depth of 24 ft bgs.

Groundwater has historically been encountered between 15 to 35 ft bgs in the vicinity of the New Mill and between 5 and 10 feet in the vicinity of the Old Mill. Groundwater flow beneath the New Mill area has historically been toward the west, away from Mt. Shasta and toward Cold Creek, at a gradient between 0.12 ft/ft and 0.15 ft/ft (URS, 2009). Cold Creek is located 1,500 feet east of the New Mill dip tank and flows into Lake Siskiyou, which drains into the Sacramento River (Figures 1 and 2).

4.0 SOIL BORING INSTALLATION ACTIVITIES

TRC completed soil borings at thirty-one (31) locations in targeted areas of the former New Mill and Box Factory. The investigation was conducted on November 11 through November 14, 2014. The following sections outline the soil and groundwater assessment activities. Boring logs are presented in Appendix B.

4.1 Pre-Field Activities

Prior to commencing soil boring activities, drilling permits were acquired from the Siskiyou County Environmental Health Division. Underground Service Alert (USA) was notified two days prior to field activities to mark underground utilities at the proposed boring locations and around the property boundaries.

A Site and job specific health and safety plan that promotes personnel safety and preparedness during the planned activities was developed prior to mobilization and a copy was available on-Site during the field activities. On the morning of the day that the field activities commenced, a "tailgate" meeting was conducted with all exclusion zone workers to discuss the health and safety issues and concerns related to the specific work.

4.2 Soil Sampling and Analysis

Former New Mill Equipment Shed

A total of ten (10) soil borings were completed at the former equipment shed to a total depth of 15 ft bgs to further delineate the presence of TPH-d, TPH-g, and TPH-mo in shallow soil. The locations represented areas that have either had elevated TPH detections during past assessments or have not been previously sampled. At each boring location, one (1) soil sample was be collected from the surface for analysis and an additional six (6) soil samples were collected at depths of 2.5, 5, 7.5, 10, 12.5, and 15 ft bgs. Soil samples were analyzed for TPH-d with silica gel cleanup, TPH-mo, and TPH-g by US Environmental Protection Agency (EPA) Method 8015B (M).

Dump

Five (5) soil borings were completed to a total depth of 15 ft bgs to delineate the vertical extent of TPH-d, TPH-g, and TPH-mo impacts in soil. At each location, one (1) soil sample was collected from the surface for analysis and an additional six (6) soil samples were collected at depths of 2.5, 5, 7.5, 10, 12.5, and 15 ft bgs. Soil samples were analyzed for TPH-d with silica gel cleanup, TPH-mo, and TPH-g by EPA Method 8015B (M).

Former New Mill Dip Tank

Eight (8) soil borings were completed to a total depth of 15 ft bgs to investigate the vertical extent of PCP in soil. One (1) boring, DIPT-1, was completed to a total depth of 35 ft bgs in order to collect a grab groundwater sample. At each location, one (1) soil sample was collected from the surface for analysis and an additional three (3) soil samples were collected at depths of, 5, 10, and 15 ft bgs. Dip Tank soil samples were analyzed for PCP by EPA Method 515.1.

Former Box Factory Transformer Area

Four (4) soil borings were completed to a total depth of 15 ft bgs to investigate the lateral and vertical extent of PCBs in shallow soil that were detected during previous investigations. One (1) soil sample was collected from the surface for analysis and an additional three (3) soil samples were collected at depths of, 5, 10, and 15 ft bgs. Soil samples were analyzed for PCBs by EPA Method 8082.

Former Box Factory Burner

Four (4) soil borings were completed in the vicinity of the former Box Factory Burner to investigate dioxins and furans in shallow soil. Due to drill rig accessibility issues the soil borings were completed by hand auger to depths of 4.5, 3.5, 3, and 4 ft bgs. One (1) soil sample was collected from the surface for analysis and additional soil samples were collected at depths of 2.5 ft bgs and at the bottom of the boring. Soil samples were analyzed for dioxins and furans by EPA Method 8290A.

After sampling was completed, all borings were sealed with neat cement grout in accordance with the Siskiyou County Environmental Health Division permit guidelines.

These sampling locations as well as sampling media are presented on Figures 2 through 6.

4.3 Grab Groundwater Sampling and Analysis

Former New Mill Dip Tank

One (1) grab groundwater sample was collected from DIPT-1 located at the northern end of the former dip tank footprint. Groundwater was analyzed for PCP by EPA Method 515.1, TPH-d with silica gel cleanup, TPH-mo, TPH-g by EPA Method 8015B (M), BTEX by EPA Method 8260B, and metals by EPA Methods 601oB and 7470A.

4.4 Decontamination Procedures

Decontamination of sampling equipment was conducted consistently as to assure the quality of samples collected. All equipment with that came into contact with potentially contaminated soil or water was decontaminated with the exception of disposable, one-time use equipment. All sampling devices used, including trowels, hand augers, and drilling equipment were steam-cleaned or decontaminated according to EPA Region 9 recommended procedures, as outlined in the SAP.

4.5 Waste Handling

Soil cuttings and decontamination water generated during drilling were placed in California Department of Transportation (DOT) approved 55-gallon drums and temporarily stored on-Site pending profiling and disposal.

5.0 SOIL SAMPLING DATA

Sample analytical data are presented in Tables 1 through 5 and analytical reports are presented in Appendix C.

5.1 Soil Analytical Results

Former New Mill Equipment Shed

Soil samples were analyzed for TPH-d with silica gel cleanup, TPH-mo, and TPH-g by EPA Method 8015B (M).

TPH-d maximum concentration of 3,100 mg/kg at EQSH-5-7.5. TPH-mo maximum concentration of 7,400 mg/kg at EQSH-5-7.5. No TPH-g detections above screening levels, only one detection above the laboratory reporting limit.

Dump

Soil samples were analyzed for TPH-d with silica gel cleanup, TPH-mo, and TPH-g by EPA Method 8015B (M).

TPH-d maximum concentration of 310 mg/kg at NMDU-5-10. TPH-mo maximum concentration of 3,400 mg/kg at NMDU-5-10. No TPH-g detections above the laboratory reporting limit.

Former New Mill Dip Tank

Soil samples were analyzed for PCP by EPA Method 515.1. There were no detections of PCP over the laboratory reporting limit.

Former Box Factory Transformer Area

Soil samples were analyzed for PCBs by EPA Method 8082. There were no detections of PCBs over the method detection limit.

Former Box Factory Burner

Soil samples were analyzed for dioxins and furans by EPA Method 8290A. Four (4) soil samples exceeded the US EPA screening level of 22 pg/g. The maximum TCDD toxic equivalency concentration (TEQ) detected was 272.76 pg/g at sample point BFBU-2-0.

6.0 GRAB GROUNDWATER DATA

6.1 Grab Groundwater Analytical Results

Former New Mill Dip Tank

Groundwater sample DIPT-1 was analyzed for PCP by EPA Method 515.1, TPH-d with silica gel cleanup, TPH-mo, TPH-g by EPA Method 8015B (M), BTEX by EPA Method 8260B, and metals by EPA Method 601oB/ 6020A/7471B. The only detections reported in groundwater were PCP and three metals. PCP was detected in groundwater at a concentration of 0.67 µg/L, which is below the MCL of 1.0 µg/L. Metals detected above the laboratory reporting limit in groundwater included barium, copper, and zinc. All metal detections were below the groundwater MCL values.

7.0 QUALITY ASSURANCE/ QUALITY CONTROL

Field quality control (QC) sample results and laboratory QC data were evaluated to assess the acceptability of the analytical results. The QC results are included with the certified analytical reports in Appendix C.

Field QC samples included three (3) equipment blanks, seven (7) field duplicate samples, and one (1) trip blank for the grab groundwater sample. Trip blanks were analyzed for VOCs while equipment blanks and duplicate samples were analyzed for the contaminants of concern (COC) for that specific study area. No detections were reported for equipment blanks and trip blanks.

The relative percent differences (RPDs) between the COC concentrations that were at least 10 times the reporting limit in samples NMDU-4-0/DUP-4 (TPH-mo) and BFBU-3-2.5/DUP-7 were calculated using the equation:

$$RPD = \frac{2|C_1 - C_2|}{C_1 + C_2} x100$$

where C1 and C2 are the concentrations in the duplicate samples.

As summarized in Table 1, only the concentration of TPH-mo (in NMDU-4-0/DUP-4) was 10 times the reporting limit. The RPD calculated for TPH-mo in NMDU-4-0/DUP-4 was 40 percent. Additionally, the RPD of the TEQ for dioxins and furans (in BFBU-3-2.5/DUP-7) was 27 percent.

Laboratory QC consisted of checking adherence to holding times and evaluating method blanks, surrogate recoveries, matrix spike (MS) and matrix spike duplicate (MSD) results, and laboratory control spike (LCS) and laboratory control spike duplicate (LCSD) results. All samples were analyzed within the required holding times. Site COCs were not detected in any of the method blanks. All surrogate recoveries were within the laboratory's acceptance limits. All MS/MSD recoveries and the associated RPDs were within the laboratory's acceptance limits. All LCS/LCSD recoveries were within the laboratory's acceptance limits.

The above results indicate that the analytical data is valid for evaluating soil conditions at the site.

8.0 CONCLUSIONS AND RECOMMENDATIONS

TRC recommends that alternative development methods be considered for the redevelopment of Site monitoring wells MW-1 through MW-4, such as water injection to mobilize the fine sediment that may be clogging the filter pack and preventing groundwater recharge.

With the data presented in this report along with historical Site data TRC believes that a sufficient level of environmental investigation has been completed at the New Mill portion of the Site (excluding the New Mill diesel fuel AST and gasoline UST study areas) to reliably remediate the study areas discussed in this report. TRC recommends that a Remedial Action Work Plan (RAWP) for the Site be prepared and submitted to the DTSC to evaluate remedial alternatives and propose a remedial action for the environmental impacts at the Site.

9.0 LIMITATIONS

This report was prepared for the sole use of the City of Mt. Shasta and the Siskiyou County Economic Development Council in evaluating soil and groundwater conditions at The Landing – Mt. Shasta Commerce Park at the time of this study. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location. The chemical and other data presented in this report can change over time and are applicable only to the time this study was performed. We are not responsible for the data presented by others.

The accuracy and reliability of geo- or hydrochemical studies are a reflection of the number and type of samples taken and extent of the analyses conducted, and are thus inherently limited and dependent upon the resources expended. Chemical analyses were performed for specific parameters during this investigation, as detailed in the scope of services. Please note that additional constituents not analyzed for during this evaluation may be present in soil and/or groundwater at the Site. Our SAP was designed using accepted environmental principles and our judgment for the performance of a soil and groundwater quality evaluation and was based on the degree of investigation approved by you. It is possible to obtain a greater degree of certainty, if desired, by implementing a more rigorous soil and groundwater sampling program or evaluating the risk posed by the contaminants detected, if any.

10.0 REFERENCES

URS, 2009. *Additional Targeted Site Investigation Report, Roseburg Lumber Mill*. April 29.

US EPA, 2015. *Regional Screening Level (RSL) Summary Tables*. http://www.epa.gov/region9/superfund/prg/. Revised January.

TRC, 2014. *Revised Sampling and Analysis Plan, The Landing - Mt. Shasta Commerce Park.* May 5.

TABLES

Table 1
Contaminants of Concern in Soil, New Mill
Phase II Site Investigation
The Landing - Mt. Shasta Commerce Park
Mt. Shasta, California

Study Area	Sample ID	Sample Date	Depth	TPH-diesel	TPH-motor	TPH-gasoline	PCP
				EPA Method	EPA Method	EPA Method 8015B	EPA Method
			(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Dip Tank	DIPT-1-0	11/12/2014	0	NA	NA	NA	<2.5
	DIPT-1-5	11/12/2014	5	NA	NA	NA	<2.5
	DIPT-1-10	11/12/2014	10	NA	NA	NA	<2.5
	DIPT-1-15	11/12/2014	15	NA	NA	NA	<2.5
	DIPT-2-0	11/12/2014	0	NA	NA	NA	<2.5
	DIPT-2-5	11/12/2014	5	NA	NA	NA	<2.5
	DIPT-2-10	11/12/2014	10	NA	NA	NA	<2.5
	DUP-3	11/12/2014	10	NA	NA	NA	<2.5
	DIPT-2-15	11/12/2014	15	NA	NA	NA	<2.5
	DIPT-3-0	11/12/2014	0	NA	NA	NA	<25
	DIPT-3-5	11/12/2014	5	NA	NA	NA	<2.5
	DIPT-3-10	11/12/2014	10	NA	NA	NA	<2.5
	DIPT-3-15	11/12/2014	15	NA	NA	NA	<2.5
	DIPT-4-0	11/12/2014	0	NA	NA	NA	<2.5
	DIPT-4-5	11/12/2014	5	NA	NA	NA	<13
	DIPT-4-10	11/12/2014	10	NA	NA	NA	<2.5
	DIPT-4-15	11/12/2014	15	NA	NA	NA	<2.5
	DIPT-5-0	11/12/2014	0	NA	NA	NA	<12
	DIPT-5-5	11/12/2014	5	NA	NA	NA	<2.5
	DIPT-5-10	11/12/2014	10	NA	NA	NA	<2.5
	DIPT-5-15	11/12/2014	15	NA	NA	NA	<2.5
	DIPT-6-0	11/12/2014	0	NA	NA	NA	<2.5
	DIPT-6-5	11/12/2014	5	NA	NA	NA	<2.5
	DIPT-6-10	11/12/2014	10	NA	NA	NA	<2.5
	DIPT-6-15	11/12/2014	15	NA	NA	NA	<2.5
	DIPT-7-0	11/12/2014	0	NA	NA	NA	<2.5
	DIPT-7-5	11/12/2014	5	NA	NA	NA	<2.5
	DIPT-7-10	11/12/2014	10	NA	NA	NA	<2.5
	DIPT-7-15	11/12/2014	15	NA	NA	NA	<2.5
	DIPT-8-0	11/12/2014	0	NA	NA	NA	<2.5
	DIPT-8-5	11/12/2014	5	NA	NA	NA	<2.5
	DIPT-8-10	11/12/2014	10	NA	NA	NA	<2.5
	DIPT-8-15	11/12/2014	15	NA	NA	NA	<2.5
Equipment Shed	EQSH-1-0	11/11/2014	0	**230**	**980**	**0.29**	NA
	EQSH-1-2.5	11/11/2014	2.5	<5.0	<25	<0.33	NA
	EQSH-1-5	11/11/2014	5	12	29	<0.42	NA
	EQSH-1-7.5	11/11/2014	7.5	<5.0	<25	<0.33	NA
	EQSH-1-10	11/11/2014	10	<5.0	<25	<0.35	NA
	EQSH-1-12.5	11/11/2014	12.5	<5.0	<25	<0.34	NA
	EQSH-1-15	11/11/2014	15	<4.9	<25	<0.29	NA
	EQSH-2-0	11/11/2014	0	**200**	**2300**	<0.24	NA
	EQSH-2-2.5	11/11/2014	2.5	<5.0	<25	<0.30	NA
	EQSH-2-5	11/11/2014	5	<5.0	<25	<0.29	NA
	EQSH-2-7.5	11/11/2014	7.5	<5.0	<25	<0.28	NA
	EQSH-2-10	11/11/2014	10	<5.0	<25	<0.28	NA
	EQSH-2-12.5	11/11/2014	12.5	<5.0	<25	<0.28	NA
	EQSH-2-15	11/11/2014	15	<4.9	<25	<0.27	NA
	EQSH-3-0	11/11/2014	0	41	150	<0.28	NA
	EQSH-3-2.5	11/11/2014	2.5	**970**	**3500**	<0.30	NA
	EQSH-3-5	11/11/2014	5	<4.9	<25	<0.30	NA
	EQSH-3-7.5	11/11/2014	7.5	<5.0	<25	<0.27	NA
	EQSH-3-10	11/11/2014	10	<5.0	<25	<0.26	NA
	EQSH-3-12.5	11/11/2014	12.5	<5.0	<25	<0.28	NA
	EQSH-3-15	11/11/2014	15	<5.0	<25	<0.28	NA
	EQSH-4-0	11/11/2014	0	**730**	**1100**	<0.30	NA
	EQSH-4-2.5	11/11/2014	2.5	<5.0	<25	<0.28	NA
	EQSH-4-5	11/11/2014	5	18	38	<0.25	NA
	EQSH-4-7.5	11/11/2014	7.5	16	<25	<0.23	NA
	EQSH-4-10	11/11/2014	10	31	40	<0.25	NA
	EQSH-4-12.5	11/11/2014	12.5	7.6	<25	<0.25	NA
	EQSH-4-15	11/11/2014	15	6.8	<25	<0.27	NA
	EQSH-5-0	11/11/2014	0	15	73	<0.29	NA
	EQSH-5-2.5	11/11/2014	2.5	71	280	<0.24	NA
	EQSH-5-5	11/11/2014	5	<5.0	<25	<0.26	NA
	EQSH-5-7.5	11/11/2014	7.5	**3100**	**7400**	<0.25	NA
	EQSH-5-10	11/11/2014	10	**110**	160	<0.25	NA
	EQSH-5-12.5	11/11/2014	12.5	**170**	**550**	<0.25	NA
	EQSH-5-15	11/11/2014	15	9.0	<25	<0.26	NA
	EQSH-6-0	11/12/2014	0	<4.9	<25	<0.25	NA
	DUP-2	11/12/2014	0	<5.0	<25	<0.31	NA
	EQSH-6-2.5	11/12/2014	2.5	33	77	<0.26	NA
	EQSH-6-5	11/12/2014	5	<5.0	<25	<0.26	NA

Table 1
Contaminants of Concern in Soil, New Mill
Phase II Site Investigation
The Landing - Mt. Shasta Commerce Park
Mt. Shasta, California

Study Area	Sample ID	Sample Date	Depth	TPH-diesel	TPH-motor	TPH-gasoline	PCP
				EPA Method	EPA Method	EPA Method 8015B	EPA Method
			(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Equipment Shed (cont.)	EQSH-6-7.5	11/12/2014	7.5	8.7	33	<0.25	NA
	EQSH-6-10	11/12/2014	10	<5.0	<25	<0.26	NA
	EQSH-6-12.5	11/12/2014	12.5	<5.0	<25	<0.29	NA
	EQSH-6-15	11/12/2014	15	5.9	<25	<0.26	NA
	EQSH-7-0	11/12/2014	0	**120**	**700**	<0.25	NA
	EQSH-7-2.5	11/12/2014	2.5	<5.0	<25	<0.26	NA
	DUP-1	11/12/2014	2.5	<4.9	<25	<0.27	NA
	EQSH-7-5	11/12/2014	5	<5.0	<25	<0.28	NA
	EQSH-7-7.5	11/12/2014	7.5	<5.0	<25	<0.27	NA
	EQSH-7-10	11/12/2014	10	9.1	36	<0.26	NA
	EQSH-7-12.5	11/12/2014	12.5	<4.9	<25	<0.26	NA
	EQSH-7-15	11/12/2014	15	5.1	<25	<0.25	NA
	EQSH-8-0	11/11/2014	0	**350**	**900**	<0.28	NA
	EQSH-8-2.5	11/11/2014	2.5	<5.0	<25	<0.27	NA
	EQSH-8-5	11/11/2014	5	<4.9	<25	<0.40	NA
	EQSH-8-7.5	11/11/2014	7.5	<4.9	<25	<0.27	NA
	EQSH-8-10	11/11/2014	10	<4.9	<25	<0.25	NA
	EQSH-8-12.5	11/11/2014	12.5	<5.0	<25	<0.27	NA
	EQSH-8-15	11/11/2014	15	<4.9	<25	<0.27	NA
	EQSH-9-0	11/11/2014	0	**320**	**2700**	<0.26	NA
	EQSH-9-2.5	11/11/2014	2.5	<4.9	<25	<0.26	NA
	EQSH-9-5	11/11/2014	5	61	150	<0.28	NA
	EQSH-9-7.5	11/11/2014	7.5	<4.9	<25	<0.25	NA
	EQSH-9-10	11/11/2014	10	35	75	<0.28	NA
	EQSH-9-12.5	11/11/2014	12.5	<5.0	<25	<0.27	NA
	EQSH-9-15	11/11/2014	15	<5.0	<25	<0.30	NA
	EQSH-10-0	11/12/2014	0	**1300**	**1500**	<0.31	NA
	EQSH-10-2.5	11/12/2014	2.5	7.3	<25	<0.27	NA
	EQSH-10-5	11/12/2014	5	<5.0	<25	<0.29	NA
	EQSH-10-7.5	11/12/2014	7.5	60	110	<0.27	NA
	EQSH-10-10	11/12/2014	10	<5.0	<25	<0.27	NA
	EQSH-10-12.5	11/12/2014	12.5	<4.9	<25	<0.28	NA
	EQSH-10-15	11/12/2014	15	5.7	<25	<0.26	NA
Dump Area	NMDU-1-0	11/13/2014	0	**190**	**680**	<0.27	NA
	NMDU-1-2.5	11/13/2014	2.5	**180**	**510**	<0.28	NA
	NMDU-1-5	11/13/2014	5	<5.0	<25	<0.30	NA
	NMDU-1-7.5	11/13/2014	7.5	24	69	<0.26	NA
	NMDU-1-10	11/13/2014	10	31	71	<0.27	NA
	NMDU-1-12.5	11/13/2014	12.5	13	30	<0.25	NA
	NMDU-1-15	11/13/2014	15	<5.0	<25	<0.25	NA
	NMDU-2-0	11/13/2014	0	<5.0	<25	<0.23	NA
	NMDU-2-2.5	11/13/2014	2.5	**210**	400	<0.29	NA
	NMDU-2-5	11/13/2014	5	**160**	**1000**	<0.25	NA
	NMDU-2-7.5	11/13/2014	7.5	51	470	<0.25	NA
	NMDU-2-10	11/13/2014	10	69	**610**	<0.28	NA
	NMDU-2-12.5	11/13/2014	12.5	<5.0	<25	<0.28	NA
	NMDU-2-15	11/13/2014	15	<4.9	<25	<0.29	NA
	NMDU-3-0	11/13/2014	0	33	320	<0.25	NA
	NMDU-3-2.5	11/13/2014	2.5	43	430	<0.25	NA
	NMDU-3-5	11/13/2014	5	26	230	<0.26	NA
	NMDU-3-7.5	11/13/2014	7.5	47	210	<0.27	NA
	NMDU-3-10	11/13/2014	10	**170**	**680**	<0.26	NA
	NMDU-3-12.5	11/13/2014	12.5	41	16	<0.36	NA
	NMDU-3-15	11/13/2014	15	6.9	<25	<0.25	NA
	NMDU-4-0	11/13/2014	0	45	**500**	<0.24	NA
	DUP-4	11/13/2014	0	48	**750**	<0.28	NA
	NMDU-4-2.5	11/13/2014	2.5	21	400	<0.26	NA
	NMDU-4-5	11/13/2014	5	19	110	<0.24	NA
	NMDU-4-7.5	11/13/2014	7.5	37	240	<0.24	NA
	NMDU-4-10	11/13/2014	10	79	400	<0.29	NA
	NMDU-4-12.5	11/13/2014	12.5	**230**	**1600**	<0.27	NA
	NMDU-4-15	11/13/2014	15	<5.0	27	<0.24	NA
	NMDU-5-0	11/13/2014	0	160	960	<0.27	NA
	NMDU-5-2.5	11/13/2014	2.5	27	**1000**	<0.26	NA
	NMDU-5-5	11/13/2014	5	28	**720**	<0.30	NA
	NMDU-5-7.5	11/13/2014	7.5	41	**560**	<0.24	NA
	NMDU-5-10	11/13/2014	10	**310**	**3400**	<0.23	NA
	NMDU-5-12.5	11/13/2014	12.5	48	**690**	<0.27	NA
	NMDU-5-15	11/13/2014	15	<5.0	<25	<0.27	NA
Commercial/Industrial Screening Levels [1]				110	500	500	4

Table 1
Contaminants of Concern in Soil, New Mill
Phase II Site Investigation
The Landing - Mt. Shasta Commerce Park
Mt. Shasta, California

Study Area	Sample ID	Sample Date	Depth	TPH-diesel	TPH-motor	TPH-gasoline	PCP
				EPA Method	EPA Method	EPA Method 8015B	EPA Method
			(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

NOTES:
Bold = Exceeds commercial/industrial screening levels.

[1)] Regional Water Quality Control Board San Francisco Bay Region Environmental Screening Level (ESL), Commercial/ Industrial Land Use, Current or Potential Drinking Water Source (December 2013) for TPH and United States Environmental Protection Agency (EPA) Industrial Regional Screening Level (November 2014) for PCP.

< = Parameter was not detected at or above the specified laboratory reporting limit.
ft bgs = Feet below ground surface
DUP = Duplicate sample
mg/kg = Milligrams per kilogram
NA = Not analyzed
PCP = Pentachlorophenol
TPH = Total petroleum hydrocarbons

Table 2
Contaminants of Concern in Groundwater, New Mill
Phase II Site Investigation
The Landing - Mt. Shasta Commerce Park
Mt. Shasta, California

Study Area	Sample ID	Sample Date	TPH-diesel	TPH-motor oil	TPH-gasoline	PCP	Benzene	Toluene	Ethylbenzene	Total Xylenes	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			EPA Method 8015B (M)			EPA Method 515.4	EPA Method 8260B				EPA Method 6010B									EPA Method 7470A	EPA Method 6010B					
			(µg/L)								(mg/L)															
Dip Tank	DIPT-1-GW	11/13/2014	<500	<2500	<100	0.67	<0.50	<1.0	<1.0	<1.0	<0.0150	<0.0100	0.248	<0.0100	<0.0100	<0.0100	<0.0100	0.0128	<0.0100	<0.0005	<0.0100	<0.0100	<0.0150	<0.005	<0.0150	<0.0100	0.0166
Commercial/Industrial Groundwater Screening Levels [1]			100	100	100	1	1	150	300	1,750	0.006	0.01	1	0.004	0.005	0.05	0.0047	1.3	0.015	0.002	0.078	0.1	0.05	0.1	0.002	0.05	5.0

NOTES:
Bold = Exceeds commercial/industrial screening levels.

[1)] The maximum contaminant limit (MCL) and secondary MCLs from the State Water Resources Control Board were selected as the commercial/industrial groundwater screening levels. The final screening level from Regional Water Quality Control Board San Francisco Bay Region Environmental Screening Level (ESL), Table F-3 Summary of Drinking Water Screening Levels (December 2013) were selected for chemicals that do not have an established MCL.

< = Parameter was not detected at or above the specified laboratory reporting limit.
µg/L = Micrograms per liter
EPA = United States Environmental Protection Agency
mg/L = Milligrams per liter
PCP = Pentachlorophenol
TPH = Total petroleum hydrocarbons

Table 3
Contaminants of Concern in Soil, Box Factory
Phase II Site Investigation
The Landing - Mt. Shasta Commerce Park
Mt. Shasta, California

Study Area	Sample ID	Sample Date	Depth	PCB						
				Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
			ft bgs	µg/kg						
Transformer Area	BFTR-1-0	11/13/2014	0	<50	<50	<50	<50	<50	<50	<50
	BFTR-1-5	11/13/2014	5	<50	<50	<50	<50	<50	<50	<50
	BFTR-1-10	11/13/2014	10	<50	<50	<50	<50	<50	<50	<50
	DUP-6	11/13/2014	10	<50	<50	<50	<50	<50	<50	<50
	BFTR-1-15	11/13/2014	15	<50	<50	<50	<50	<50	<50	<50
	BFTR-2-0	11/13/2014	0	<50	<50	<50	<50	<50	<50	<50
	BFTR-2-5	11/13/2014	5	<50	<50	<50	<50	<50	<50	<50
	BFTR-2-10	11/13/2014	10	<50	<50	<50	<50	<50	<50	<50
	BFTR-2-15	11/13/2014	15	<50	<50	<50	<50	<50	<50	<50
	BFTR-3-0	11/13/2014	0	<50	<50	<50	<50	<50	<50	<50
	BFTR-3-5	11/13/2014	5	<50	<50	<50	<50	<50	<50	<50
	BFTR-3-10	11/13/2014	10	<50	<50	<50	<50	<50	<50	<50
	BFTR-3-15	11/13/2014	15	<50	<50	<50	<50	<50	<50	<50
	BFTR-4-0	11/13/2014	0	<50	<50	<50	<50	<50	<50	<50
	BFTR-4-5	11/13/2014	5	<50	<50	<50	<50	<50	<50	<50
	DUP-5	11/13/2014	5	<50	<50	<50	<50	<50	<50	<50
	BFTR-4-10	11/13/2014	10	<50	<50	<50	<50	<50	<50	<50
	BFTR-4-15	11/13/2014	15	<50	<50	<50	<50	<50	<50	<50
Commercial/Industrial Screening Levels [1]				3,000	660	660	1,000	1,000	1,000	1,000

NOTES:
Bold = Exceeds commercial/industrial screening levels.

[1)] United States Environmental Protection Agency (EPA) Industrial Regional Screening Level (November 2014).

< = Parameter was not detected at or above the specified laboratory reporting limit.
DUP = Duplicate sample
ft bgs = Feet below ground surface
µg/kg = micrograms per kilogram
PCB = Polychlorinated biphenyl

Table 4
Contaminants of Concern in Soil (Dioxins and Furans), Box Factory
Phase II Site Investigation
The Landing - Mt. Shasta Commerce Park
Mt. Shasta, California

Dioxin/Furan Compounds	Toxic Equivalency Factors (TEFs) [a]	BFBU-1-0 11/14/2014 0 feet bgs		BFBU-1-2.5 11/14/2014 2.5 feet bgs		BFBU-1-4 11/14/2014 4 feet bgs		BFBU-2-0 11/14/2014 0 feet bgs		BFBU-2-2.5 11/14/2014 2.5 feet bgs		BFBU-2-3 11/14/2014 3 feet bgs		BFBU-3-0 11/14/2014 0 feet bgs		BFBU-3-2.5 11/14/2014 2.5 feet bgs		*DUP-7* 11/14/2014 2.5 feet bgs		BFBU-4-0 11/14/2014 0 feet bgs		BFBU-4-2.5 11/14/2014 2.5 feet bgs		BFBU-4-3.5 11/14/2014 3.5 feet bgs	
		Lab Results (pg/g)	TEF Adjusted [b]	Lab Results (pg/g)	TEF Adjusted [b]	Lab Results (pg/g)	TEF Adjusted [b]	Lab Results (pg/g)	TEF Adjusted [b]	Lab Results (pg/g)	TEF Adjusted [b]	Lab Results (pg/g)	TEF Adjusted [b]	Lab Results (pg/g)	TEF Adjusted [b]	Lab Results (pg/g)	TEF Adjusted [b]	Lab Results (pg/g)	TEF Adjusted [b]	Lab Results (pg/g)	TEF Adjusted [b]	Lab Results (pg/g)	TEF Adjusted [b]	Lab Results (pg/g)	TEF Adjusted [b]
2,3,7,8-TCDD	1	0.81 I,D	0.81	0.24 I,B	0.24	0.22 I,B	0.22	0.75 I,D	0.75	0.64 I,D	0.64	0.76 I,D	0.76	1.49 D	1.49	0.22 I,B	0.22	0.15 I,B	0.15	2.79 D	2.79	0.32 I,B	0.32	0.08	0.08
1,2,3,7,8-PeCDD	1	3.89 D	3.89	1.10 I,B	1.10	0.75 B	0.75	17.5	17.5	0.94 I,B	0.94	9.88	9.88	18.8	18.8	3.79 D	3.79	2.80 D	2.8	23.8	23.8	1.52 I,B	1.52	0.70	0.7
1,2,3,4,7,8-HxCDD	0.1	5.44	0.544	0.38 I,B	0.038	0.48 I,B	0.048	23.3	2.33	12.5 I	1.25	7.40	0.74	21.9	2.19	2.68 D	0.268	1.65 D	0.165	17.1	1.71	0.95 B	0.095	0.93	0.093
1,2,3,6,7,8-HxCDD	0.1	12.4	1.24	0.18 I,B	0.018	1.43 I,D	0.143	276	27.6	12.5	1.25	52.4	5.24	179	17.9	20.5	2.05	20.1	2.01	127	12.7	3.31 D	0.331	6.13	0.613
1,2,3,7,8,9-HxCDD	0.1	7.17	0.717	0.65 I,B	0.065	1.66 I,D	0.166	53.4	5.34	1.29 I,D	0.129	22.7	2.27	68.6	6.86	5.72	0.572	8.72	0.872	68.9	6.89	2.24 D	0.224	2.89	0.289
1,2,3,4,6,7,8-HpCDD	0.01	323	3.23	11.97	0.1197	33.1	0.331	5,520	55.2	210	2.1	818	8.18	2,740	27.4	479	4.79	302	3.02	1,260	12.6	46.8	0.468	64.4	0.644
OCDD	0.0003	2370	0.711	35	0.010509	189	0.0567	42,100	12.63	1,620	0.486	5,930	1.779	27,900	8.37	5,100	1.53	2,430	0.729	5,636	1.6908	244	0.0732	352	0.1056
2,3,7,8-TCDF	0.1	2.93	0.293	0.25 B	0.025	0.98 D	0.098	70.4	7.04	4.44	0.444	28.9	2.89	107	10.7	5.58	0.558	6.67	0.667	17.7	1.77	0.63 I,B	0.063	0.84	0.084
1,2,3,7,8-PeCDF	0.03	0.72 I,B	0.0216	0.67 B	0.0201	1.72 I,D	0.0516	4.34	0.1302	0.38 I,B	0.0114	3.83	0.1149	8.45 D	0.2535	3.22 B	0.0966	0.88 I,B	0.0264	3.92 B	0.1176	0.57 I,B	0.0171	0.80	0.024
2,3,4,7,8-PeCDF	0.3	0.56 I,B	0.168	0.49 I,B	0.147	1.35 B	0.405	59.9	17.97	0.55 I,B	0.165	6.01	1.803	11.3	3.39	4.05 D	1.215	2.75 I,D	0.825	4.72 D	1.416	0.22 I,B	0.066	0.37	0.111
1,2,3,4,7,8-HxCDF	0.1	1.72 I,D	0.172	0.73 I,B	0.073	2.22 I,D	0.222	80.7	8.07	2.91 I,D	0.291	15.5	1.55	41.1	4.11	7.84	0.784	5.46	0.546	23.2	2.32	1.00 I,B	0.1	1.78	0.178
1,2,3,6,7,8-HxCDF	0.1	1.17 I,D	0.117	0.49 B	0.049	0.77 I,B	0.077	57.2	5.72	2.92 I,D	0.292	14.8	1.48	33.1	3.31	5.63 D	0.563	3.75 D	0.375	24.2	2.42	1.19 B	0.119	1.51	0.151
2,3,4,6,7,8-HxCDF	0.1	1.88 I,B	0.188	0.39 I,B	0.039	0.73 ND	0.073	15.7	1.57	2.41 B	0.241	4.02	0.402	11.8	1.18	1.70 I,D	0.17	2.31 D	0.231	7.01	0.701	1.31 I,B	0.131	0.61	0.061
1,2,3,7,8,9-HxCDF	0.1	2.75 I	0.275	0.43 I,B	0.043	1.81 I,D	0.181	96.1	9.61	5.67	0.567	22.9	2.29	45.5	4.55	11.3	1.13	5.59 D	0.559	38.9	3.89	1.23 B	0.123	1.91	0.191
1,2,3,4,6,7,8-HpCDF	0.01	98.2	0.982	1.34 B	0.0134	2.11 B	0.0211	9,580	95.8	240	2.4	1,540	15.4	2,299	22.99	303	3.03	288	2.88	2,720	27.2	90.8	0.908	163	1.63
1,2,3,4,7,8,9-HpCDF	0.01	2.02 I,D	0.0202	1.00 B	0.01	2.26 I,D	0.0226	199	1.99	3.03 I,D	0.0303	11.8	0.118	36.2	0.362	4.44 D	0.0444	3.23 D	0.0323	15.1	0.151	0.71 ND	0.0071	1.63	0.0163
OCDF	0.0003	65.6	0.01968	8.60 I	0.00258	17.5 I,D	0.00525	11,700	3.51	199	0.0597	881	0.2643	1,770	0.531	372	0.1116	151	0.0453	1,360	0.408	37.3 D	0.01119	77	0.02301
TCDD TEQ [c]			13.40		2.01		2.87		**272.76**		11.30		**55.16**		**134.39**		20.92		15.93		**102.57**		4.58		4.99

USEPA January 2015 Regional Screening Levels
Commercial/Industrial Soil = 22 pg/g

pg/g = picogram per gram
Bold = Exceeds United States Environmental Protection Agency Industrial Regional Screening Level (January 2015).
D = Less than Quantification Limit (QL)
I = Laboratory Interference
B = Upper Limit
ND = Less than Method Detection Limit (MDL)

Abbreviations:
bgs = below ground surface
HpCDD = heptachlorodibenzo-p-dioxin
HpCDF = heptachlorodibenzofuran
HxCDD = hexachlorodibenzo-p-dioxin
HxCDF = hexachlorodibenzofuran
OCDD = octachlorodibenzo-p-dioxin
OCDF = octachlorodibenzofuran
PeCDD = pentachlorodibenzo-p-dioxin
PeCDF = pentachlorodibenzofuran
TCDD = tetrachlordibenzo-p-dioxin
TCDF = tetrachlordibenzofuran
TEQ = toxic equivalency concentration
U = not detected above the reporting limit
USEPA = United States Environmental Protection Agency (http://www.epa.gov/region9/superfund/prg/)

Footnotes:
[a] The TEFs are values from *The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds*(*van den Berg, et. al., 2006*) and adopted by the Department of Toxic Substances Control (DTSC) and presented in DTSC May 2009 Human Health Risk Assessment (HHRA) Note 2*Remedial Goals for Dioxins and Dioxin-like Compounds for Consideration at California Hazardous Waste Sites*
[b] The TEF adjusted value is calculated by multipling the laboratory result by the TEF. Values that were not detected, one half the reporting limit was used as the result.
[c] The TCDD TEQ value is the sum of the TEF Adjusted value for each dioxin/furan compound.

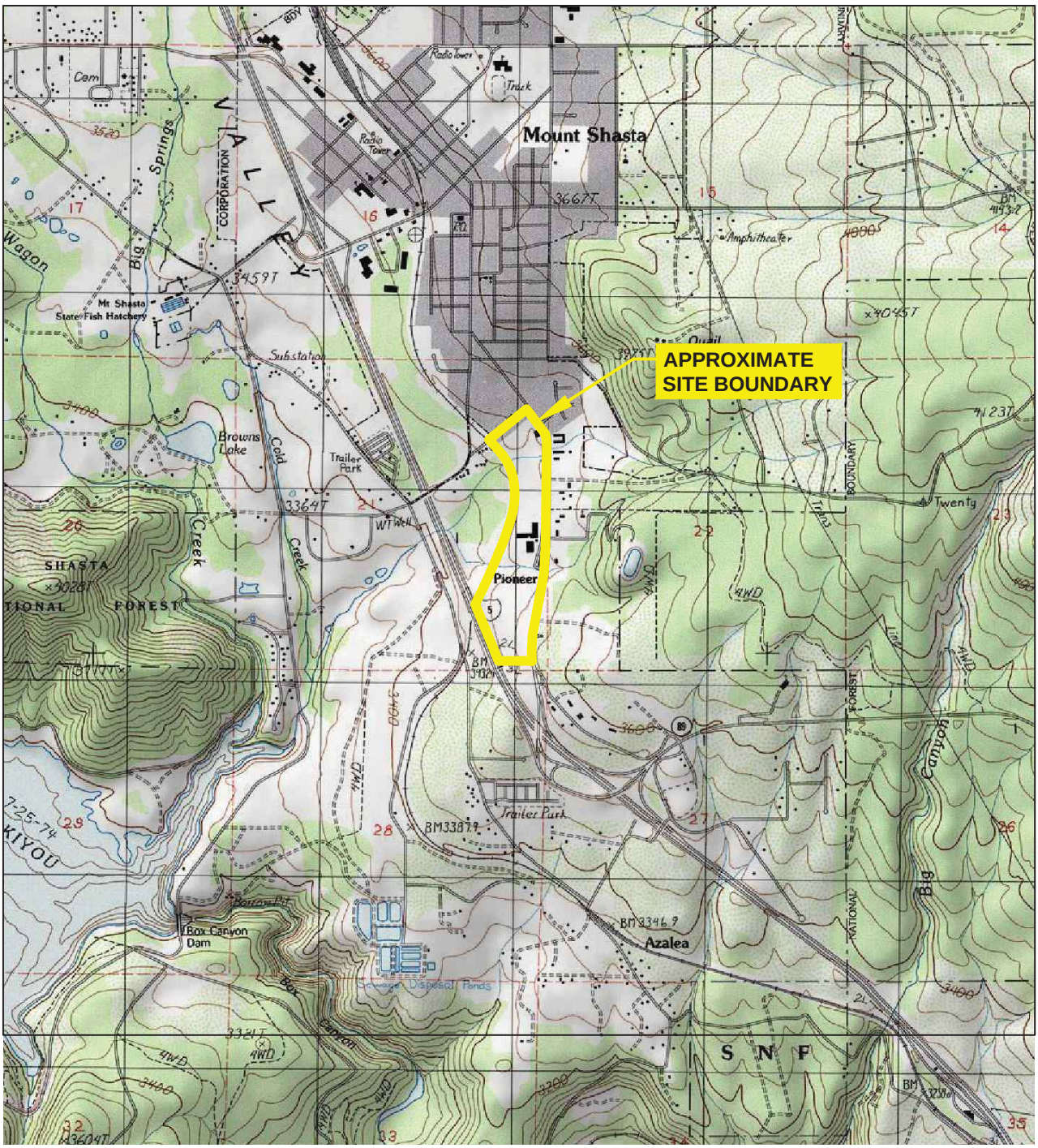
Table 5
QA/AC Sample Results
Phase II Site Investigation
The Landing - Mt. Shasta Commerce Park
Mt. Shasta, California

Sample ID	Sample Type	Sample Date	TPH-diesel	TPH-motor oil	TPH-gasoline	PCP	Benzene	Toluene	Ethylbenzene	Total Xylenes	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			EPA Method 8015B (M)			EPA Method 515.4	EPA Method 8260B				EPA Method 6010B									EPA Method 7470A	EPA Method 6010B						
			(µg/L)								(mg/L)																
EB-1	Equipment Blank	11/11/2014	<500	<250	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EB-2	Equipment Blank	11/12/2014	<500	<2500	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EB-3	Equipment Blank	11/13/2014	<500	<2500	<100	<0.04	<0.50	<1.0	<1.0	<1.0	<0.0150	<0.0100	<0.0150	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0005	<0.0100	<0.0100	<0.0150	<0.005	<0.0150	<0.0100	<0.0100
TB-1	Trip Blank	11/13/2014	NA	NA	NA	NA	<0.50	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

< = Parameter was not detected at or above the specified laboratory reporting limit.
µg/L = Micrograms per liter
EPA = United States Environmental Protection Agency
mg/L = Milligrams per liter
NA = Not analyzed
PCP = Pentachlorophenol
TPH = Total petroleum hydrocarbons

FIGURES



APPROXIMATE SCALE (MILES)

1.5 1.0 0.5 0.25 0 0.25 0.5 1.0 1.5

N

SOURCE:
United States Geological Survey
7.5 Minute Topographic Maps:
City of Mount Shasta Quadrangle, California

VICINITY MAP

The Landing - Mt. Shasta Commerce Park
Mount Shasta, California

TRC 202311 **FIGURE 1**

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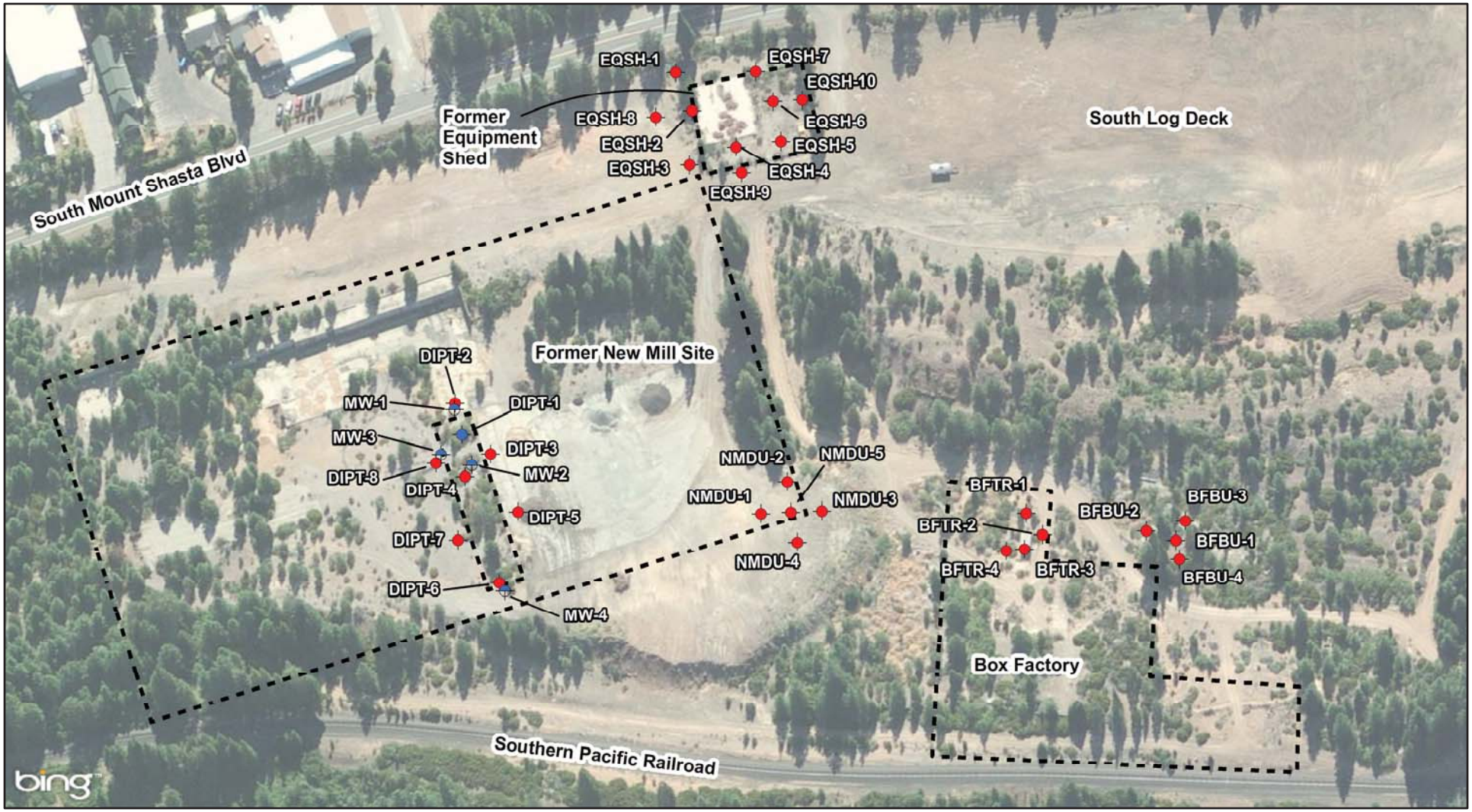


Legend

- Groundwater Monitoring Well
- Soil Sample Location
- Soil and GW Sample Location
- Former Industrial Area (approx.)

Figure 2
The Landing - Mt. Shasta Commerce Park
Site Plan with Boring Locations

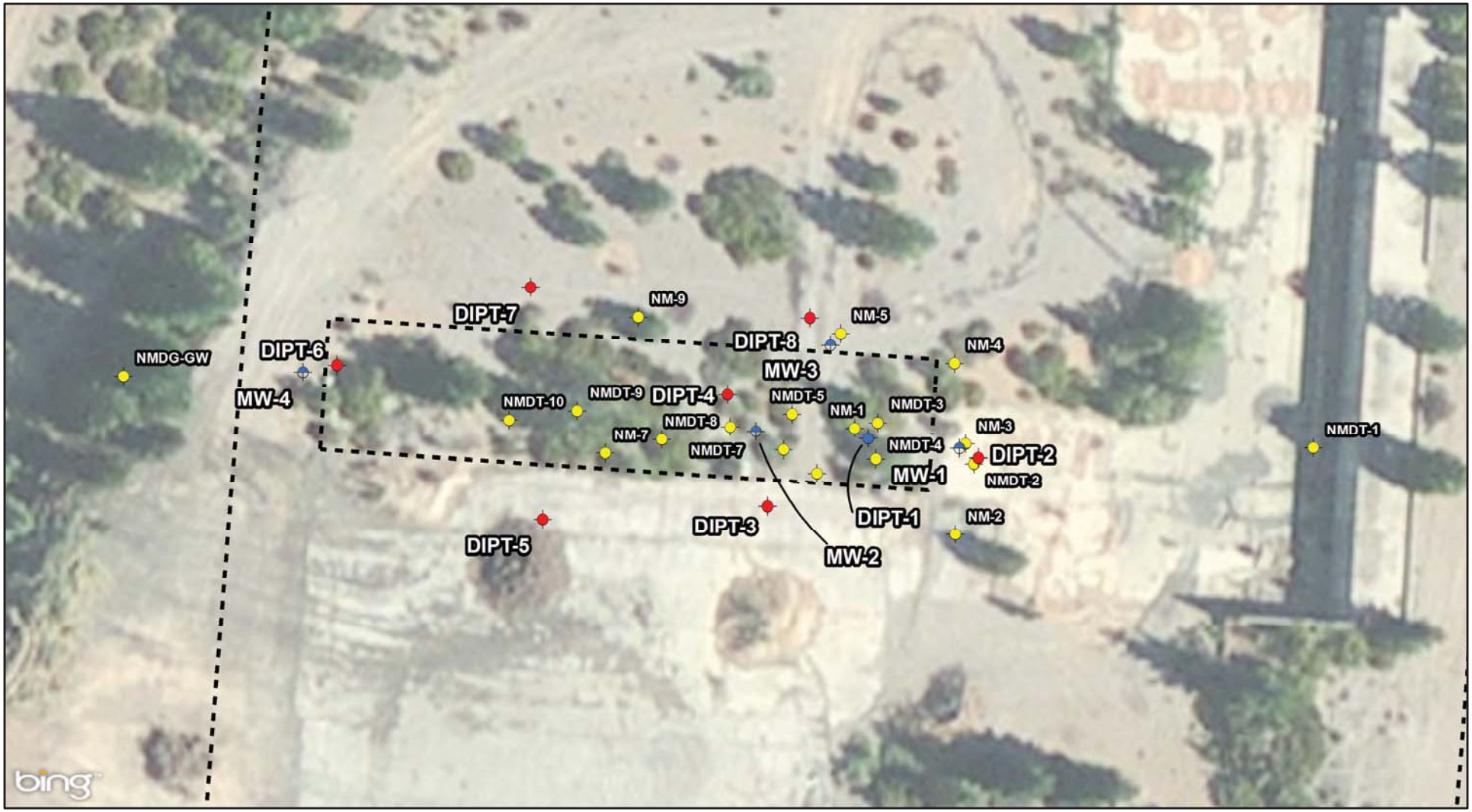
N

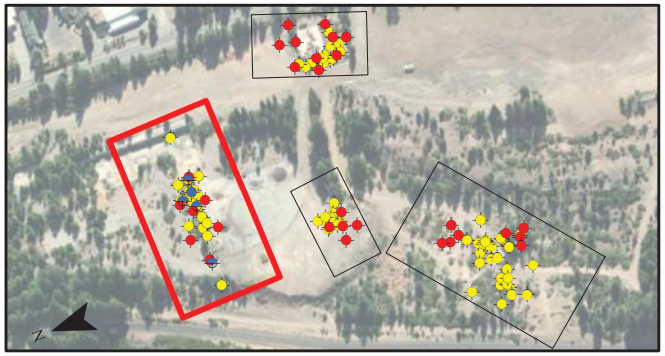
0 175 350 Feet

1 in = 175 ft

Service Layer Credits: © 2015 Microsoft Corporation

TRC
Results you can rely on





Legend

- Groundwater Monitoring Well
- Soil Boring Location
- Soil and GW Sample Location
- Historical Borings
- Former Industrial Area (approx.)

Figure 3
The Landing - Mt. Shasta Commerce Park
Site Plan with Boring Locations Detail
New Mill Dip Tank

N

0 50 100 Feet

1 in = 50 ft

TRC
Results you can rely on

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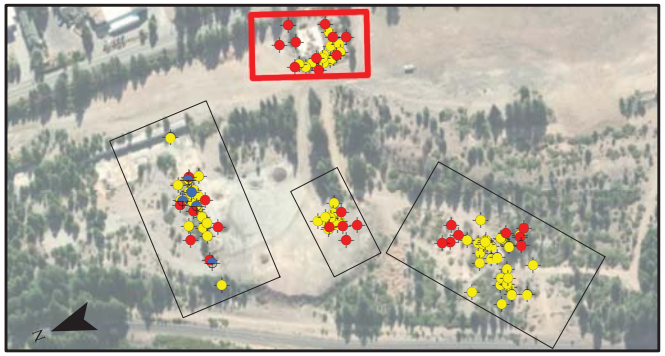
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Legend

- Soil Boring Location
- Historical Borings
- Former Industrial Area (approx.)

Figure 4
The Landing - Mt. Shasta Commerce Park
Site Plan with Boring Locations Detail
New Mill Equipment Shed

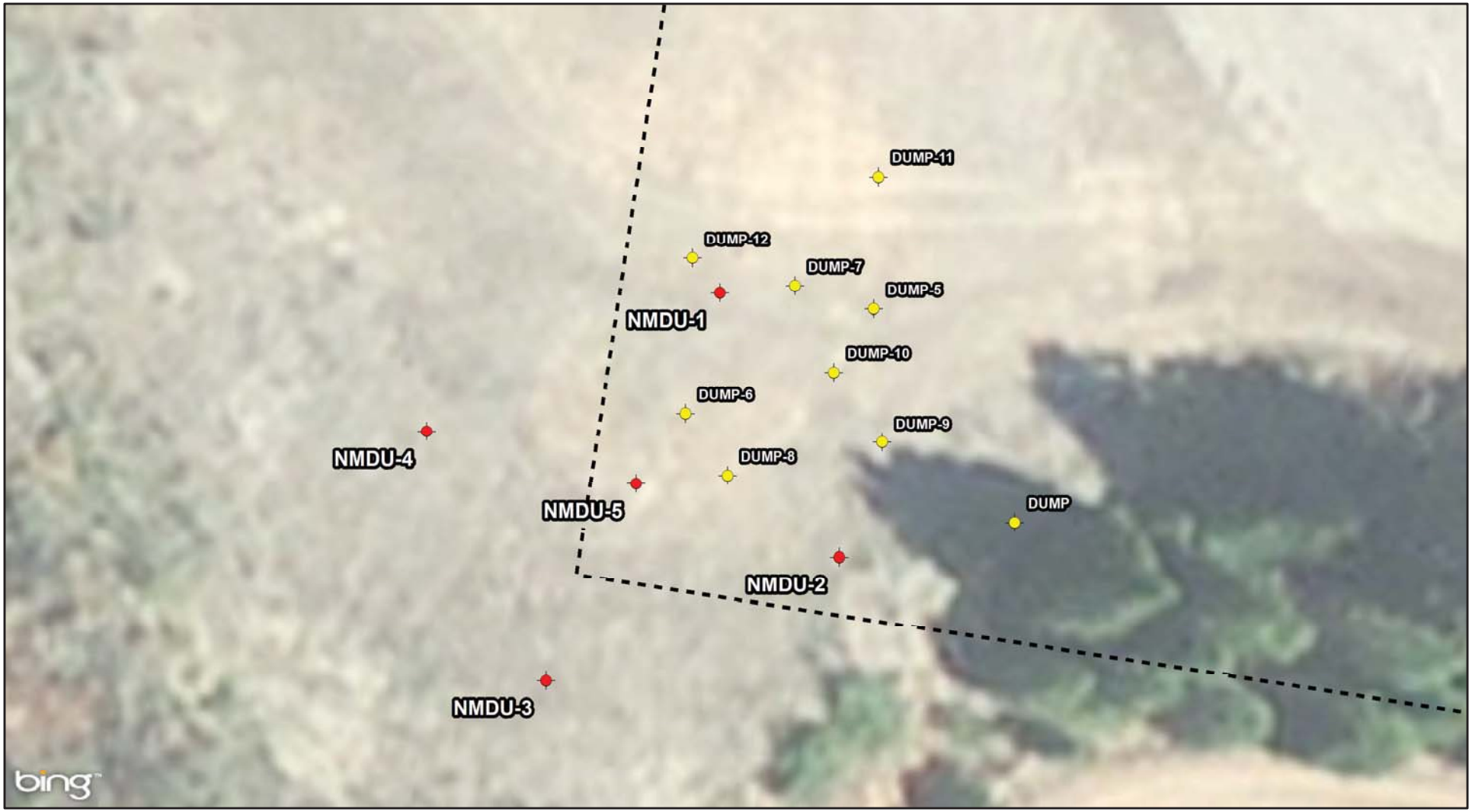
N

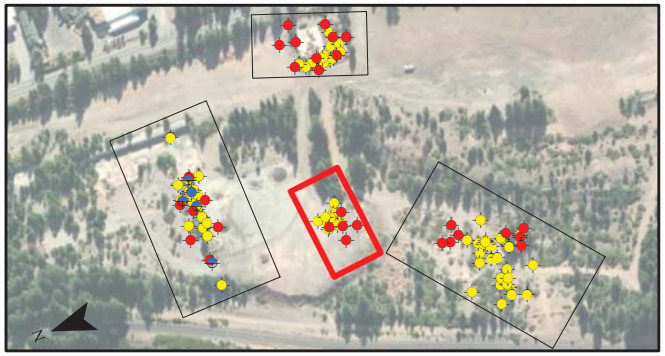
0 30 60 Feet

1 in = 30 ft

TRC
Results you can rely on

Service Layer Credits: © 2015 Microsoft Corporation
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community





Legend

- Soil Boring Location
- Historical Borings
- Former Industrial Area (approx.)

Figure 5
The Landing - Mt. Shasta Commerce Park
Site Plan with Boring Locations Detail
New Mill Dump

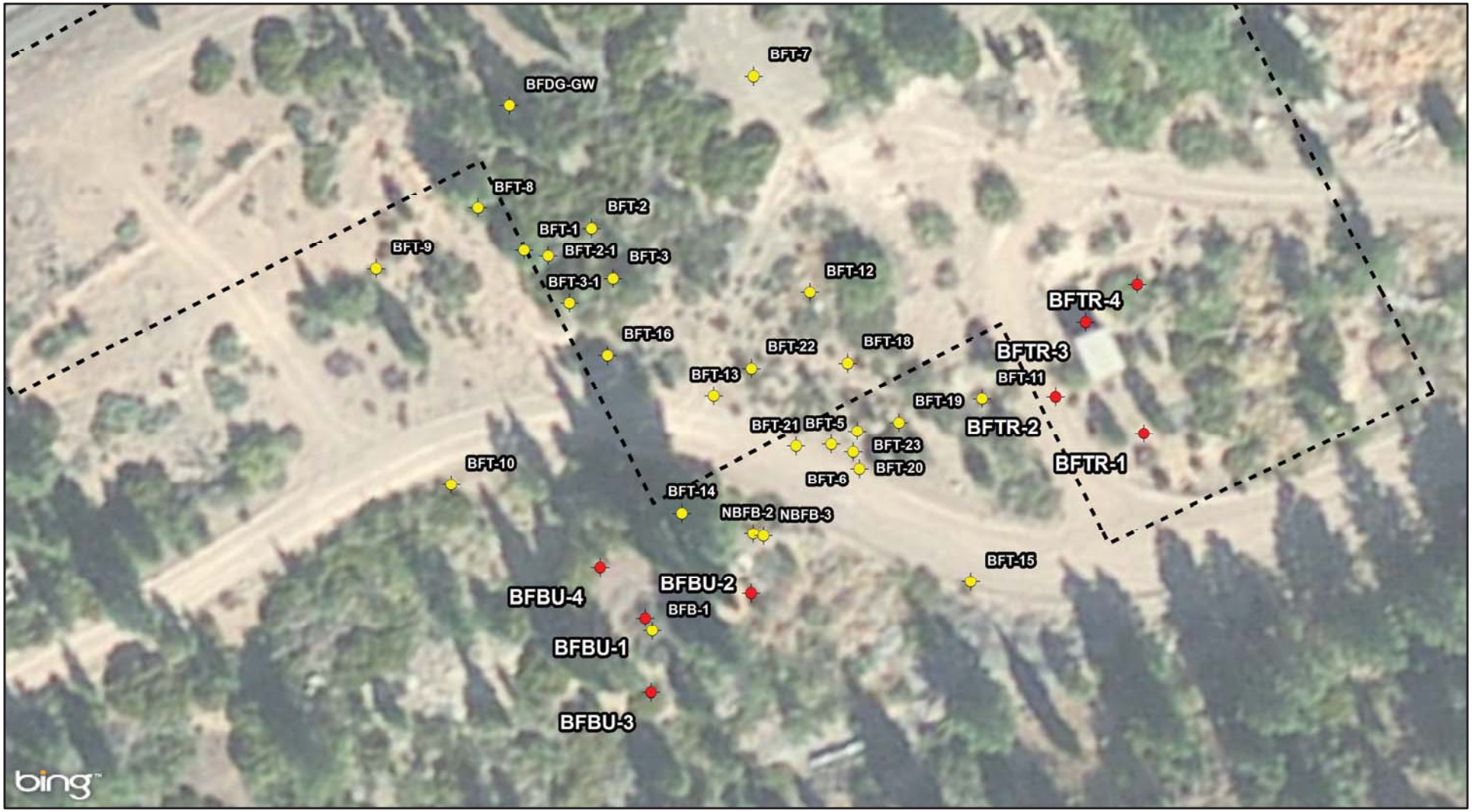
N

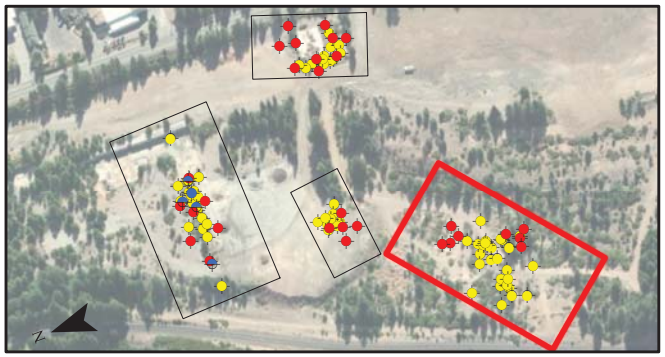
0 25 50 Feet

1 in = 25 ft

TRC
Results you can rely on

Service Layer Credits: © 2015 Microsoft Corporation
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community





Legend

- Soil Boring Location
- Historical Borings
- Former Industrial Area (approx.)

Figure 6
The Landing - Mt. Shasta Commerce Park
Site Plan with Boring Locations Detail
Box Factory

0 50 100 Feet

1 in = 50 ft

TRC
Results you can rely on

Service Layer Credits: © 2015 Microsoft Corporation
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

APPENDIX A

SISKIYOU COUNTY DRILLING PERMIT

Siskiyou County Community Development-Environmental Health Division
806 South Main Street, Yreka CA 96097
Telephone: (530) 841-2100 FAX: (530) 841-4076

#661309

T 40N R 4W S 21-22

WATER WELL PERMIT

PERMIT# W14-193

APPLICANT (Must be licensed contractor or property owner and must be legible)

Name Paul Snelgrove, Cascade Drilling, L.P.

Address

Mailing Address 3000 Duluth Street

City, State, Zip Code West Sacramento, CA 95619

Telephone 916-638-1169, psnelgrove@cascadedrilling.com

Well Type — **Annular Seal Depth**

- ☐ Domestic ..... 20 foot minimum
- ☐ Industrial ..... 50 foot minimum
- ☐ Agricultural ..... 20 foot minimum
- ☐ Public ..... 50 foot minimum
- ☐ Monitoring ..... as approved #.....
- ☐ Deepening ..... n/a
- ☐ Destruction ..... n/a
- ☒ Soil bores ..... as approved #31
- ☐ Other ..... as approved

Minimum thickness of annular space seal is 2 inches

A PLOT PLAN MUST be submitted on an 81/2 x 11 sheet of paper. It must include all property boundaries, waterways, roads, septic systems and structures, location of the proposed well in relationship to the property boundaries.

Permit Conditions

- Well driller must provide a minimum of 24 hours notice prior to installing or placing annular seal.
- All wells must be drilled under a C-57 license
- Applicant/well driller is responsible for maintaining all setbacks as approved by on location map below including a minimum of 100 feet from any established on-site sewage disposal location.
- Owner and well contractor are required to submit a completed well log within 30 days of well completion.
- This permit does not guarantee issuance of any other development permits or land use requests for this property.
- This permit expires one year from the date of issuance.

Owner/Contractor Signatures

SIGNATURE OF OWNER: *(required on all applications)*

I am the owner of the property and certify that the information contained herein is accurate. I understand that this application will become a permit upon review and approval by the Environmental Division. I understand that well construction may not begin prior to receiving a permit and all terms and conditions apply. I hereby authorize SISKIYOU COUNTY to enter the property for inspection purposes.

I hereby authorize the contractor listed herein to obtain the permit.

Signature 10/21/2014 Date

Signature of Contractor (*required on all applications*)
I certify that I possess a valid C-57 contractor's license that is in full force and effect. I certify that I have read this application and the above information is correct. I agree to comply with all Siskiyou County Ordinances and State Laws relating this well construction. I understand that this application will become a permit upon review and approval by the Environmental Division. I understand that well construction may not begin prior to receiving a permit and all terms and conditions apply.

10/21/2014

Contractor Date

Property Location

Property Owner City of Mt. Shasta

Assessors parcel # 067-010-010

Location Old Roseburg Lumber Mill, S. Mt Shasta Blvd.

Parcel Size Approximately 95 acres

WELL CONTRACTOR

Name Cascade Drilling, LP

Mailing Address 3000 Duluth Street

City, State, Zip Code West Sacramento, CA 95619

Telephone 916-638-1169

License # C57-938110

FEES

Well permit $246
Well destruction $102
Monitoring Well(s) and Soil bores.....First three-$318 and $85 for each additional well

For Official Use Only

	Date	Initials
Property Owner Verification	11-4-14	BSR
Set back Requirements	11/5/14	BSR
Flood	11/5/14	BSR
City Public Works	10/21/14 Per owner	

Received by B SHAW Date 10-31-14

Fee Received $2,698 ck # 1033018

Permission is hereby granted for the above well work in accordance with all State and County laws and standards as provided in Siskiyou County Code, Title 6, Chapter 8 and any conditions as set forth in this permit.

Issued by Date 11/6/14

Seal Inspection Date

Seal Depth

Final Inspection by Date

Inspection Notes:

Date Well Log Received Log #

LOCATION MAP
(to be completed by department)

DRILL Boas Hole and Decomission bottom to top w/ approved grouting method.

APPENDIX B

BORING LOGS

SOIL BORING LOG

BOREHOLE NUMBER	
BFBU-1	
PROJECT NUMBER / NAME	LOCATION
202311.0000 / The Landing- Mt Shasta Commerce Park	
APPROVED BY	
Mike Sellwood, PG	**Mt. Shasta, California**
DRILLING CONTRACTOR / DRILLER	LOGGED BY
Cascade Drilling, LP	**M. Sellwood**

DRILLING EQUIPMENT / METHOD	BIT SIZE / BIT TYPE	SAMPLING METHOD	START-FINISH DATE
Geoprobe 8040DT / Direct Push	**2.25" / GeoProbe**	**Continuous**	**11/14/14 - 11/14/14**

CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA.	SLOT SIZE

ELEVATION OF: (FT.)	GROUND SURFACE	GW SURFACE	DATE OF GW MEASUREMENT	LATITUDE/ LONGITUDE
	3475.0	**NA**	**NA**	**41.294858081/ 122.309167854**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
0	Neat Cement	SM	Silty Sand (SM), strong brown (7.5YR/5/6), 15% non-plastic fines, 85% fine sand, loose, moist.	0	BFBU-1-0 0830	0.5/0.5
2.5				2.5	BFBU-1-2.5 0843	0.5/0.5
4				4	BFBU-1-4 0847	0.5/0.5
4.5			Bottom of borehole at 4.5 feet.			

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER: **BFBU-2**				
PROJECT NUMBER / NAME: **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION: **Mt. Shasta, California**		
APPROVED BY: **Mike Sellwood, PG**				
DRILLING CONTRACTOR / DRILLER: **Cascade Drilling, LP**		LOGGED BY: **M. Sellwood**		
DRILLING EQUIPMENT / METHOD: **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE: **2.25" / GeoProbe**	SAMPLING METHOD: **Continuous**	START-FINISH DATE: **11/14/14 - 11/14/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.)	GROUND SURFACE: **3471.6**	GW SURFACE: **NA**	DATE OF GW MEASUREMENT: **NA**	LATITUDE/ LONGITUDE: **41.294939803/ 122.309087073**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
	Neat Cement	SM	Silty Sand (SM), strong brown (7.5YR/5/6), 15% non-plastic fines, 85% fine sand, loose, moist.			0.5/0.5 BFBU-2-0 0802
						0.5/0.5 BFBU-2-2.5 0805
			Bottom of borehole at 3.5 feet.			0.5/0.5 BFBU-2-3 0824

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER	
BFBU-3	
PROJECT NUMBER / NAME	LOCATION
202311.0000 / The Landing- Mt Shasta Commerce Park	
APPROVED BY	
Mike Sellwood, PG	**Mt. Shasta, California**
DRILLING CONTRACTOR / DRILLER	LOGGED BY
Cascade Drilling, LP	**M. Sellwood**

DRILLING EQUIPMENT / METHOD	BIT SIZE / BIT TYPE	SAMPLING METHOD	START-FINISH DATE
Geoprobe 8040DT / Direct Push	**2.25" / GeoProbe**	**Continuous**	**11/14/14 - 11/14/14**

CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA.	SLOT SIZE

ELEVATION OF: (FT.)	GROUND SURFACE	GW SURFACE	DATE OF GW MEASUREMENT	LATITUDE/ LONGITUDE
	3475.8	**NA**	**NA**	**41.294808151/ 122.309102523**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
	Neat Cement	SM	Silty Sand (SM), strong brown (7.5YR/5/6), 15% non-plastic fines, 85% fine sand, loose, moist.		0.5/0.5 BFBU-3-0 0853	
			Bottom of borehole at 3 feet.		0.5/0.5 BFBU-3-2.5 0905 (DUP-7 COLLECTED)	

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER	
BFBU-4	

PROJECT NUMBER / NAME	LOCATION
202311.0000 / The Landing- Mt Shasta Commerce Park	
APPROVED BY	
Mike Sellwood, PG	**Mt. Shasta, California**
DRILLING CONTRACTOR / DRILLER	LOGGED BY
Cascade Drilling, LP	**M. Sellwood**

DRILLING EQUIPMENT / METHOD	BIT SIZE / BIT TYPE	SAMPLING METHOD	START-FINISH DATE
Geoprobe 8040DT / Direct Push	**2.25" / GeoProbe**	**Continuous**	**11/14/14 - 11/14/14**

CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA.	SLOT SIZE

ELEVATION OF: (FT.)	GROUND SURFACE	GW SURFACE	DATE OF GW MEASUREMENT	LATITUDE/ LONGITUDE
	3475.5	**NA**	**NA**	**41.294867283/ 122.30925151**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
0	Neat Cement	SM	Silty Sand (SM), strong brown (7.5YR/5/6), 15% non-plastic fines, 85% fine sand, loose, moist.	0		0.5/0.5 BFBU-4-0 0930
2.5				2.5		0.5/0.5 BFBU-4-2.5 0933
3.5				3.5		0.5/0.5 BFBU-4-3.5 0944
4			Bottom of borehole at 4 feet.			

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER **BFTR-1**				
PROJECT NUMBER / NAME **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION		
APPROVED BY **Mike Sellwood, PG**		**Mt. Shasta, California**		
DRILLING CONTRACTOR / DRILLER **Cascade Drilling, LP**		LOGGED BY **M. Sellwood**		
DRILLING EQUIPMENT / METHOD **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE **2.25" / GeoProbe**	SAMPLING METHOD **Continuous**	START-FINISH DATE **11/13/14 - 11/13/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.) **3461.2**	GROUND SURFACE **3461.2**	GW SURFACE **NA**	DATE OF GW MEASUREMENT **NA**	LATITUDE/ LONGITUDE **41.295291786/ 122.308842697**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			6" concrete			
			Silty Sand (SM), strong brown (7.5YR/5/6), 15% non-plastic fines, 85% fine sand, loose, moist.			
5				5		
10				10		
15				15		
			Bottom of borehole at 15.5 feet.			

Neat Cement

SM

0.5/0.5 BFTR-1-0 1511

0.5/0.5 BFTR-1-5 1514

0.5/0.5 BFTR-1-10 1518 (DUP-6 COLLECTED)

0.5/0.5 BFTR-1-15 1525

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER: **BFTR-2**	
PROJECT NUMBER / NAME: **202311.0000 / The Landing- Mt Shasta Commerce Park**	LOCATION: **Mt. Shasta, California**
APPROVED BY: **Mike Sellwood, PG**	
DRILLING CONTRACTOR / DRILLER: **Cascade Drilling, LP**	LOGGED BY: **M. Sellwood**
DRILLING EQUIPMENT / METHOD: **Geoprobe 8040DT / Direct Push**	BIT SIZE / BIT TYPE: **2.25" / GeoProbe**
SAMPLING METHOD: **Continuous**	START-FINISH DATE: **11/13/14 - 11/13/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE
ELEVATION OF: (FT.) **3461.0**	GROUND SURFACE / GW SURFACE: **NA**
DATE OF GW MEASUREMENT: **NA**	LATITUDE/ LONGITUDE: **41.295264592/ 122.30895571**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			6" concrete			
			Silty Sand (SM), strong brown (7.5YR/5/6), 15% non-plastic fines, 85% fine sand, loose, moist.		BFTR-2-0 1447	0.5/0.5
5		SM		5	BFTR-2-5 1450	0.5/0.5
10				10		
			Sandy Silt (ML), strong brown (7.5YR/5/6), 70% low plasticity fines, 30% fine sand, soft, moist to wet.		BFTR-2-10 1454	0.5/0.5
15		ML		15	BFTR-2-15 1500	0.5/0.5
			Bottom of borehole at 15.5 feet.			

Neat Cement

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER: **BFTR-3**	
PROJECT NUMBER / NAME: **202311.0000 / The Landing- Mt Shasta Commerce Park**	LOCATION: **Mt. Shasta, California**
APPROVED BY: **Mike Sellwood, PG**	
DRILLING CONTRACTOR / DRILLER: **Cascade Drilling, LP**	LOGGED BY: **M. Sellwood**
DRILLING EQUIPMENT / METHOD: **Geoprobe 8040DT / Direct Push**	BIT SIZE / BIT TYPE: **2.25" / GeoProbe**
SAMPLING METHOD: **Continuous**	START-FINISH DATE: **11/13/14 - 11/13/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE
ELEVATION OF: (FT.) **3461.0**	GROUND SURFACE / GW SURFACE: **NA**
DATE OF GW MEASUREMENT: **NA**	LATITUDE/ LONGITUDE: **41.295336641/ 122.308987658**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			6" concrete			
			Silty Sand (SM), strong brown (7.5YR/5/6), 15% non-plastic fines, 85% fine sand, loose, moist.			
5				5		
			Neat Cement			
		SM				
10				10		
15				15		
			Bottom of borehole at 15.5 feet.			

Sample Number	Recovery
BFTR-3-0 1409	0.5/0.5
BFTR-3-5 1411	0.5/0.5
BFTR-3-10 1413	0.5/0.5
BFTR-3-15 1419	0.5/0.5

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER **BFTR-4**				
PROJECT NUMBER / NAME **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION		
APPROVED BY **Mike Sellwood, PG**		**Mt. Shasta, California**		
DRILLING CONTRACTOR / DRILLER **Cascade Drilling, LP**		LOGGED BY **M. Sellwood**		
DRILLING EQUIPMENT / METHOD **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE **2.25" / GeoProbe**	SAMPLING METHOD **Continuous**	START-FINISH DATE **11/13/14 - 11/13/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.) **3461.0**	GROUND SURFACE **3461.0**	GW SURFACE **NA**	DATE OF GW MEASUREMENT **NA**	LATITUDE/ LONGITUDE **41.29539485/ 122.308968799**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			6" concrete			
			Silty Sand (SM), strong brown (7.5YR/5/6), 15% non-plastic fines, 85% fine sand, loose, moist.			
5				5		
		SM				
10				10		
15				15		
			Bottom of borehole at 15.5 feet.			

Neat Cement

Sample Number	Recovery
BFTR-4-0 1425	0.5/0.5
BFTR-4-5 1434 (DUP-5 COLLECTED)	0.5/0.5
BFTR-4-10 1436	0.5/0.5
BFTR-4-15 1441	0.5/0.5

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER: **DIPT-1**				
PROJECT NUMBER / NAME: **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION: **Mt. Shasta, California**		
APPROVED BY: **Mike Sellwood, PG**				
DRILLING CONTRACTOR / DRILLER: **Cascade Drilling, LP**		LOGGED BY: **M. Sellwood**		
DRILLING EQUIPMENT / METHOD: **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE: **2.25" / GeoProbe**	SAMPLING METHOD: **Continuous**	START-FINISH DATE: **11/12/14 - 11/13/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.)	GROUND SURFACE: **3485.0**	GW SURFACE: **3461.0**	DATE OF GW MEASUREMENT: **11/13/14**	LATITUDE/ LONGITUDE: **41.296954701/ 122.307711721**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
		GP	Silty Gravel (GM), brown (7.5YR/5/3), 15% non-plastic fines, 85% fine, angular gravel, loose, dry to moist.			0.5/0.5 DIPT-1-0 1608
			Silty Sand (SM), strong brown (7.5YR/4/6), 40% non-plastic fines, 60% fine to coarse sand, loose, dry.			
5				5		0.5/0.5 DIPT-1-5 1609
10		SM		10		0.5/0.5 DIPT-1-10 1610
15			@15'; saturated.	15		0.5/0.5 DIPT-1-15 1615
20			Sandy silt (ML) (weathered volcanic soil), reddish yellow (7.5YR/6/6), 70% low plasticity fines, 30% fine sand, trace fine angular gravel, soft, moist to wet.	20		
25		ML	@24'; saturated.	25		0.5/0.5 DIPT-1-GW 11/13/14 @ 1255
30				30		
35				35		

Neat Cement

GROUND WATER LEVEL 11/13/14

Bottom of borehole at 35 feet.

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER	**DIPT-2**
PROJECT NUMBER / NAME	**202311.0000 / The Landing- Mt Shasta Commerce Park**
LOCATION	**Mt. Shasta, California**
APPROVED BY	**Mike Sellwood, PG**
DRILLING CONTRACTOR / DRILLER	**Cascade Drilling, LP**
LOGGED BY	**M. Sellwood**
DRILLING EQUIPMENT / METHOD	**Geoprobe 8040DT / Direct Push**
BIT SIZE / BIT TYPE	**2.25" / GeoProbe**
SAMPLING METHOD	**Continuous**
START-FINISH DATE	**11/12/14 - 11/12/14**
CASING MATL. / DIAMETER	
SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT.)	GROUND SURFACE **3484.9** / GW SURFACE **NA** / DATE OF GW MEASUREMENT **NA**
LATITUDE/ LONGITUDE	**41.296941892/ 122.307573781**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
		GP	Silty Gravel (GM), strong brown (7.5YR/5/6), 15% non-plastic fines, 10% medium sand, 75% fine, angular gravel, loose, moist.			0.5/0.5 DIPT-2-0 1247
5		SM	Silty Sand (SM), strong brown (7.5YR/5/6), 30% non-plastic fines, 70% medium sand, trace fine gravel, loose, moist.	5		0.5/0.5 DIPT-2-5 1253
10				10		0.5/0.5 DIPT-2-10 1300 (DUP-3 COLLECTED)
15		ML	Silt (ML) (weathered volcanic soil), yellow (10YR/7/6), 90% low plasticity fines, 10% fine sand, soft, moist to wet.	15		0.5/0.5 DIPT-2-15 1307
			Bottom of borehole at 15.5 feet.			

Neat Cement

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER: **DIPT-3**				
PROJECT NUMBER / NAME: **202311.0000 / The Landing- Mt Shasta Commerce Park**	LOCATION: **Mt. Shasta, California**			
APPROVED BY: **Mike Sellwood, PG**				
DRILLING CONTRACTOR / DRILLER: **Cascade Drilling, LP**	LOGGED BY: **M. Sellwood**			
DRILLING EQUIPMENT / METHOD: **Geoprobe 8040DT / Direct Push**	BIT SIZE / BIT TYPE: **2.25" / GeoProbe**	SAMPLING METHOD: **Continuous**	START-FINISH DATE: **11/12/14 - 11/12/14**	
CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA. / SLOT SIZE
ELEVATION OF: (FT.) GROUND SURFACE: **3485.4**	GW SURFACE: **NA**	DATE OF GW MEASUREMENT: **NA**	LATITUDE/ LONGITUDE: **41.296886539/ 122.307832574**	

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			Silty Sand (SM), brown (7.5YR/4/4), 40% non-plastic fines, 60% fine to coarse sand, loose, moist.			0.5/0.5 DIPT-3-0 1039
			@3'; color change to strong brown (7.5YR/5/6), change to 40% non-plastic fines, 50% fine to coarse sand, 10% coarse gravel.			
5				5		0.5/0.5 DIPT-3-5 1215
	Neat Cement	SM				
10				10		0.5/0.5 DIPT-3-10 1225
15				15		0.5/0.5 DIPT-3-15 1228
			Bottom of borehole at 15.5 feet.			

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER	
DIPT-4	

PROJECT NUMBER / NAME	LOCATION
202311.0000 / The Landing- Mt Shasta Commerce Park	
APPROVED BY	
Mike Sellwood, PG	**Mt. Shasta, California**
DRILLING CONTRACTOR / DRILLER	LOGGED BY
Cascade Drilling, LP	**M. Sellwood**

DRILLING EQUIPMENT / METHOD	BIT SIZE / BIT TYPE	SAMPLING METHOD	START-FINISH DATE
Geoprobe 8040DT / Direct Push	**2.25" / GeoProbe**	**Continuous**	**11/12/14 - 11/12/14**

CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA.	SLOT SIZE

ELEVATION OF: (FT.)	GROUND SURFACE	GW SURFACE	DATE OF GW MEASUREMENT	LATITUDE/ LONGITUDE
	3485.4	**NA**	**NA**	**41.296989441/ 122.307889151**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			Silty Sand (SM), strong brown (7.5YR/5/6), 40% non-plastic fines, 60% fine sand, trace fine gravel, loose, moist.			0.5/0.5 DIPT-4-0 1425
5				5		0.5/0.5 DIPT-4-5 1432
		SM				
10				10		0.5/0.5 DIPT-4-10 1434
15				15		0.5/0.5 DIPT-4-15 1442

Neat Cement

Bottom of borehole at 15.5 feet.

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SOIL BORING LOG

BOREHOLE NUMBER: **DIPT-5**	
PROJECT NUMBER / NAME: **202311.0000 / The Landing- Mt Shasta Commerce Park**	LOCATION: **Mt. Shasta, California**
APPROVED BY: **Mike Sellwood, PG**	
DRILLING CONTRACTOR / DRILLER: **Cascade Drilling, LP**	LOGGED BY: **M. Sellwood**
DRILLING EQUIPMENT / METHOD: **Geoprobe 8040DT / Direct Push**	BIT SIZE / BIT TYPE: **2.25" / GeoProbe**
SAMPLING METHOD: **Continuous**	START-FINISH DATE: **11/12/14 - 11/12/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE
ELEVATION OF: (FT.) GROUND SURFACE: **3485.1**	GW SURFACE: **NA** / DATE OF GW MEASUREMENT: **NA** / LATITUDE/ LONGITUDE: **41.296863889/ 122.308110889**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
		GP	Silty Gravel (GM), brown (7.5YR/5/3), 15% non-plastic fines, 85% fine, angular gravel, loose, dry to moist.			0.5/0.5 DIPT-5-0 1134
			Silty Sand (SM), strong brown (7.5YR/4/6), 40% non-plastic fines, 60% fine to coarse sand, loose, dry.			
5				5		0.5/0.5 DIPT-5-5 1144
		SM				
10				10		0.5/0.5 DIPT-5-10 1148
15				15		0.5/0.5 DIPT-5-15 1152

Neat Cement

Bottom of borehole at 15.5 feet.

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SOIL BORING LOG

BOREHOLE NUMBER	
DIPT-6	

PROJECT NUMBER / NAME	LOCATION
202311.0000 / The Landing- Mt Shasta Commerce Park	
APPROVED BY	
Mike Sellwood, PG	**Mt. Shasta, California**
DRILLING CONTRACTOR / DRILLER	LOGGED BY
Cascade Drilling, LP	**M. Sellwood**

DRILLING EQUIPMENT / METHOD	BIT SIZE / BIT TYPE	SAMPLING METHOD	START-FINISH DATE
Geoprobe 8040DT / Direct Push	**2.25" / GeoProbe**	**Continuous**	**11/12/14 - 11/12/14**

CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA.	SLOT SIZE

ELEVATION OF: (FT.)	GROUND SURFACE	GW SURFACE	DATE OF GW MEASUREMENT	LATITUDE/ LONGITUDE
	3484.0	**NA**	**NA**	**41.296998258/ 122.308375921**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			Silty Sand (SM), strong brown (7.5YR/4/6), 40% non-plastic fines, 60% fine to coarse sand, loose, dry.			0.5/0.5 DIPT-6-0 1523
5				5		0.5/0.5 DIPT-6-5 1529
10				10		0.5/0.5 DIPT-6-10 1538
15				15		0.5/0.5 DIPT-6-15 1540

Neat Cement

SM

Bottom of borehole at 15.5 feet.

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SOIL BORING LOG

BOREHOLE NUMBER: **DIPT-7**				
PROJECT NUMBER / NAME: **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION: **Mt. Shasta, California**		
APPROVED BY: **Mike Sellwood, PG**				
DRILLING CONTRACTOR / DRILLER: **Cascade Drilling, LP**		LOGGED BY: **M. Sellwood**		
DRILLING EQUIPMENT / METHOD: **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE: **2.25" / GeoProbe**	SAMPLING METHOD: **Continuous**	START-FINISH DATE: **11/12/14 - 11/12/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.)	GROUND SURFACE: **3484.6**	GW SURFACE: **NA**	DATE OF GW MEASUREMENT: **NA**	LATITUDE/ LONGITUDE: **41.297080394/ 122.308140557**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
		GP	Silty Gravel (GM), brown (7.5YR/5/3), 15% non-plastic fines, 85% fine, angular gravel, loose, dry to moist.			0.5/0.5 DIPT-7-0 1456
			Silty Sand (SM), strong brown (7.5YR/4/6), 40% non-plastic fines, 60% fine to coarse sand, loose, dry.			
5				5		0.5/0.5 DIPT-7-5 1502
		SM				
10				10		0.5/0.5 DIPT-7-10 1504
15			@15'; saturated.	15		0.5/0.5 DIPT-7-15 1516
			Bottom of borehole at 15.5 feet.			

Neat Cement

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SOIL BORING LOG

BOREHOLE NUMBER **DIPT-8**				
PROJECT NUMBER / NAME **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION		
APPROVED BY **Mike Sellwood, PG**		**Mt. Shasta, California**		
DRILLING CONTRACTOR / DRILLER **Cascade Drilling, LP**		LOGGED BY **M. Sellwood**		
DRILLING EQUIPMENT / METHOD **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE **2.25" / GeoProbe**	SAMPLING METHOD **Continuous**	START-FINISH DATE **11/12/14 - 11/12/14**

CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA.	SLOT SIZE

ELEVATION OF: (FT.)	GROUND SURFACE	GW SURFACE	DATE OF GW MEASUREMENT	LATITUDE/ LONGITUDE
	3485.2	**NA**	**NA**	**41.297065097/ 122.30779162**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
		GP	Silty Gravel (GM), brown (7.5YR/5/3), 15% non-plastic fines, 85% fine, angular gravel, loose, dry to moist.			0.5/0.5 DIPT-8-0 1358
			Silty Sand (SM), strong brown (7.5YR/4/6), 40% non-plastic fines, 60% fine to coarse sand, loose, dry.			
5				5		0.5/0.5 DIPT-8-5 1403
		SM				
10				10		0.5/0.5 DIPT-8-10 1405
15			@15'; saturated.	15		0.5/0.5 DIPT-8-15 1411
			Bottom of borehole at 15.5 feet.			

Neat Cement

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SOIL BORING LOG

BOREHOLE NUMBER	
EQSH-1	

PROJECT NUMBER / NAME	LOCATION
202311.0000 / The Landing- Mt Shasta Commerce Park	
APPROVED BY	
Mike Sellwood, PG	**Mt. Shasta, California**
DRILLING CONTRACTOR / DRILLER	LOGGED BY
Cascade Drilling, LP	**M. Sellwood**

DRILLING EQUIPMENT / METHOD	BIT SIZE / BIT TYPE	SAMPLING METHOD	START-FINISH DATE
Geoprobe 8040DT / Direct Push	**2.25" / GeoProbe**	**Continuous**	**11/11/14 - 11/11/14**

CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA.	SLOT SIZE

ELEVATION OF: (FT.)	GROUND SURFACE	GW SURFACE	DATE OF GW MEASUREMENT	LATITUDE/ LONGITUDE
	3498.9	**NA**	**NA**	**41.295901721/ 122.306530378**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			Silty Sand (SM) (topsoil), dark reddish brown (5YR/3/3), 30% low plasticity fines, 70% fine to coarse sand, loose, dry to moist.			0.5/0.5 EQSH-1-0 0924
			@3'; weathered volcanic soil, change to yellowish red (5YR/5/6), 20% non-plastic fines, 80% fine to coarse sand, loose, dry.			0.5/0.5 EQSH-1-2.5 0942
5				5		0.5/0.5 EQSH-1-5 0950
		SM				0.5/0.5 EQSH-1-7.5 0957
10				10		0.5/0.5 EQSH-1-10 1003
						0.5/0.5 EQSH-1-12.5 1011
15				15		0.5/0.5 EQSH-1-15 1016

Neat Cement

Bottom of borehole at 15.5 feet.

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SOIL BORING LOG

BOREHOLE NUMBER	
EQSH-10	
PROJECT NUMBER / NAME	LOCATION
202311.0000 / The Landing- Mt Shasta Commerce Park	
APPROVED BY	
Mike Sellwood, PG	**Mt. Shasta, California**
DRILLING CONTRACTOR / DRILLER	LOGGED BY
Cascade Drilling, LP	**M. Sellwood**

DRILLING EQUIPMENT / METHOD	BIT SIZE / BIT TYPE	SAMPLING METHOD	START-FINISH DATE
Geoprobe 8040DT / Direct Push	**2.25" / GeoProbe**	**Continuous**	**11/12/14 - 11/12/14**

CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA.	SLOT SIZE

ELEVATION OF: (FT.)	GROUND SURFACE	GW SURFACE	DATE OF GW MEASUREMENT	LATITUDE/ LONGITUDE
	3498.7	**NA**	**NA**	**41.295538829/ 122.306823886**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			Silty Sand (SM), dark reddish brown (5YR/3/3), 30% non-plastic fines, 60% fine to coarse sand, 10% fine, angular gravel, loose, dry to moist. loose, dry to moist.			0.5/0.5 EQSH-10-0 0843
						0.5/0.5 EQSH-10-2.5 0847
5				5		0.5/0.5 EQSH-10-5 0852
						0.5/0.5 EQSH-10-7.5 0900
10				10		0.5/0.5 EQSH-10-10 0903
						0.5/0.5 EQSH-10-12.5 0907
15				15		0.5/0.5 EQSH-10-15 0911

Neat Cement

SM

Bottom of borehole at 15.5 feet.

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SOIL BORING LOG

BOREHOLE NUMBER **EQSH-2**				
PROJECT NUMBER / NAME **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION **Mt. Shasta, California**		
APPROVED BY **Mike Sellwood, PG**				
DRILLING CONTRACTOR / DRILLER **Cascade Drilling, LP**		LOGGED BY **M. Sellwood**		
DRILLING EQUIPMENT / METHOD **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE **2.25" / GeoProbe**	SAMPLING METHOD **Continuous**	START-FINISH DATE **11/11/14 - 11/11/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.) **3498.7**	GROUND SURFACE **3498.7**	GW SURFACE **NA**	DATE OF GW MEASUREMENT **NA**	LATITUDE/ LONGITUDE **41.295891475/ 122.306709837**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			Silty Sand (SM) (topsoil), dark reddish brown (5YR/3/3), 30% low plasticity fines, 70% fine to coarse sand, loose, dry to moist.		EQSH-2-0 1121	0.5/0.5
			@3'; weathered volcanic soil, change to yellowish red (5YR/5/6), 20% non-plastic fines, 80% fine to coarse sand, loose, dry.		EQSH-2-2.5 1126	0.5/0.5
5				5	EQSH-2-5 1130	0.5/0.5
		SM			EQSH-2-7.5 1136	0.5/0.5
10				10	EQSH-2-10 1141	0.5/0.5
					EQSH-2-12.5 1145	0.5/0.5
15				15	EQSH-2-15 1150	0.5/0.5

Neat Cement

Bottom of borehole at 15.5 feet.

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SOIL BORING LOG

BOREHOLE NUMBER	
EQSH-3	

PROJECT NUMBER / NAME	LOCATION
202311.0000 / The Landing- Mt Shasta Commerce Park	
APPROVED BY	
Mike Sellwood, PG	**Mt. Shasta, California**
DRILLING CONTRACTOR / DRILLER	LOGGED BY
Cascade Drilling, LP	**M. Sellwood**

DRILLING EQUIPMENT / METHOD	BIT SIZE / BIT TYPE	SAMPLING METHOD	START-FINISH DATE
Geoprobe 8040DT / Direct Push	**2.25" / GeoProbe**	**Continuous**	**11/11/14 - 11/11/14**

CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA.	SLOT SIZE

ELEVATION OF: (FT.)	GROUND SURFACE	GW SURFACE	DATE OF GW MEASUREMENT	LATITUDE/ LONGITUDE
	3497.4	**NA**	**NA**	**41.295958546/ 122.306928303**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			Silty Sand (SM) (topsoil), dark reddish brown (5YR/3/3), 30% low plasticity fines, 70% fine to coarse sand, loose, dry to moist.			0.5/0.5 EQSH-3-0 1157
			@3'; weathered volcanic soil, change to yellowish red (5YR/5/6), 20% non-plastic fines, 80% fine to coarse sand, loose, dry.			0.5/0.5 EQSH-3-2.5 1202
5		SM		5		0.5/0.5 EQSH-3-5 1207
						0.5/0.5 EQSH-3-7.5 1212
10				10		0.5/0.5 EQSH-3-10 1218
			Silt (ML), yellowish red (5YR/5/6), 90% low plasticity fines, 10% fine to coarse sand, soft, moist.			0.5/0.5 EQSH-3-12.5 1222
		ML				
15				15		0.5/0.5 EQSH-3-15 1228
			Bottom of borehole at 15.5 feet.			

Neat Cement

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER	
EQSH-4	

PROJECT NUMBER / NAME	LOCATION
202311.0000 / The Landing- Mt Shasta Commerce Park	
APPROVED BY	
Mike Sellwood, PG	**Mt. Shasta, California**
DRILLING CONTRACTOR / DRILLER	LOGGED BY
Cascade Drilling, LP	**M. Sellwood**

DRILLING EQUIPMENT / METHOD	BIT SIZE / BIT TYPE	SAMPLING METHOD	START-FINISH DATE
Geoprobe 8040DT / Direct Push	**2.25" / GeoProbe**	**Continuous**	**11/11/14 - 11/11/14**

CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA.	SLOT SIZE

ELEVATION OF: (FT.)	GROUND SURFACE	GW SURFACE	DATE OF GW MEASUREMENT	LATITUDE/ LONGITUDE
	3498.3	**NA**	**NA**	**41.295794284/ 122.306921678**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			Silty Sand (SM) (topsoil), dark reddish brown (5YR/3/3), 30% low plasticity fines, 70% fine to coarse sand, loose, dry to moist.			0.5/0.5 EQSH-4-0 1356
			@3'; weathered volcanic soil, change to yellowish red (5YR/5/6), 20% non-plastic fines, 80% fine to coarse sand, loose, dry.			0.5/0.5 EQSH-4-2.5 1401
5		SM	@5'; thin zone of wet soil.	5		0.5/0.5 EQSH-4-5 1408
						0.5/0.5 EQSH-4-7.5 1415
10				10		
			Silt (ML), yellowish red (5YR/5/6), 90% low plasticity fines, 10% fine to coarse sand, soft, moist.			0.5/0.5 EQSH-4-10 1420
		ML				0.5/0.5 EQSH-4-12.5 1424
15				15		
			Bottom of borehole at 15.5 feet.			0.5/0.5 EQSH-4-15 1429

Neat Cement

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SOIL BORING LOG

BOREHOLE NUMBER	
EQSH-5	

PROJECT NUMBER / NAME	LOCATION
202311.0000 / The Landing- Mt Shasta Commerce Park	
APPROVED BY	
Mike Sellwood, PG	**Mt. Shasta, California**
DRILLING CONTRACTOR / DRILLER	LOGGED BY
Cascade Drilling, LP	**M. Sellwood**

DRILLING EQUIPMENT / METHOD	BIT SIZE / BIT TYPE	SAMPLING METHOD	START-FINISH DATE
Geoprobe 8040DT / Direct Push	**2.25" / GeoProbe**	**Continuous**	**11/11/14 - 11/11/14**

CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA.	SLOT SIZE

ELEVATION OF: (FT.)	GROUND SURFACE	GW SURFACE	DATE OF GW MEASUREMENT	LATITUDE/ LONGITUDE
	3497.7	**NA**	**NA**	**41.295650056/ 122.306962903**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			Silty Sand (SM) (topsoil), dark reddish brown (5YR/3/3), 30% low plasticity fines, 70% fine to coarse sand, loose, dry to moist.			0.5/0.5 EQSH-5-0 1437
			@3'; weathered volcanic soil, change to yellowish red (5YR/5/6), 20% non-plastic fines, 80% fine to coarse sand, loose, dry.			0.5/0.5 EQSH-5-2.5 1441
5		SM	@5'; thin zone of wet soil.	5		0.5/0.5 EQSH-5-5 1446
						0.5/0.5 EQSH-5-7.5 1451
10				10		0.5/0.5 EQSH-5-10 1456
			Silt (ML), yellowish red (5YR/5/6), 90% low plasticity fines, 10% fine to coarse sand, soft, moist.			0.5/0.5 EQSH-5-12.5 1500
		ML				
15				15		0.5/0.5 EQSH-5-15 1506
			Bottom of borehole at 15.5 feet.			

Neat Cement

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SOIL BORING LOG

BOREHOLE NUMBER **EQSH-6**				
PROJECT NUMBER / NAME **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION **Mt. Shasta, California**		
APPROVED BY **Mike Sellwood, PG**				
DRILLING CONTRACTOR / DRILLER **Cascade Drilling, LP**		LOGGED BY **M. Sellwood**		
DRILLING EQUIPMENT / METHOD **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE **2.25" / GeoProbe**	SAMPLING METHOD **Continuous**	START-FINISH DATE **11/12/14 - 11/12/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.)	GROUND SURFACE **3498.4**	GW SURFACE **NA**	DATE OF GW MEASUREMENT **NA**	LATITUDE/ LONGITUDE **41.295631193/ 122.306788462**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
	Neat Cement	SM	Silty Sand (SM), dark reddish brown (5YR/3/3), 30% non-plastic fines, 60% fine to coarse sand, 10% fine, angular gravel, loose, dry to moist. loose, dry to moist. @2.5'; hydrocarbon odor, PID=0		EQSH-6-0 0916 (DUP-2 COLLECTED?)	0.5/0.5
					EQSH-6-2.5 0919	0.5/0.5
5				5	EQSH-6-5 0927	0.5/0.5
					EQSH-6-7.5 0930	0.5/0.5
10				10	EQSH-6-10 0934	0.5/0.5
					EQSH-6-12.5 0937	0.5/0.5
15				15	EQSH-6-15 0942	0.5/0.5

Bottom of borehole at 15.5 feet.

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER	
EQSH-7	

PROJECT NUMBER / NAME	LOCATION
202311.0000 / The Landing- Mt Shasta Commerce Park	
APPROVED BY	
Mike Sellwood, PG	**Mt. Shasta, California**
DRILLING CONTRACTOR / DRILLER	LOGGED BY
Cascade Drilling, LP	**M. Sellwood**

DRILLING EQUIPMENT / METHOD	BIT SIZE / BIT TYPE	SAMPLING METHOD	START-FINISH DATE
Geoprobe 8040DT / Direct Push	**2.25" / GeoProbe**	**Continuous**	**11/12/14 - 11/12/14**

CASING MATL. / DIAMETER	SCREEN: TYPE	MATL.	TOTAL LENGTH	DIA.	SLOT SIZE

ELEVATION OF: (FT.)	GROUND SURFACE	GW SURFACE	DATE OF GW MEASUREMENT	LATITUDE/ LONGITUDE
	3498.4	**NA**	**NA**	**41.295652512/ 122.306640679**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
0			Silty Sand (SM), dark reddish brown (5YR/3/3), 40% low plasticity fines, 60% fine to coarse sand, loose, dry to moist.	0	EQSH-7-0 0808	0.5/0.5
					EQSH-7-2.5 0814 (DUP-1 COLLECTED)	0.5/0.5
5			@5'; color change to yellowish red (5YR/4/6).	5	EQSH-7-5 0822	0.5/0.5
		SM			EQSH-7-7.5 0827	0.5/0.5
10				10	EQSH-7-10 0832	0.5/0.5
					EQSH-7-12.5 0835	0.5/0.5
15				15	EQSH-7-15 0839	0.5/0.5

Neat Cement

Bottom of borehole at 15.5 feet.

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER **EQSH-8**				
PROJECT NUMBER / NAME **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION		
APPROVED BY **Mike Sellwood, PG**		**Mt. Shasta, California**		
DRILLING CONTRACTOR / DRILLER **Cascade Drilling, LP**		LOGGED BY **M. Sellwood**		
DRILLING EQUIPMENT / METHOD **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE **2.25" / GeoProbe**	SAMPLING METHOD **Continuous**	START-FINISH DATE **11/11/14 - 11/11/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.) **3498.8**	GROUND SURFACE **3498.8**	GW SURFACE **NA**	DATE OF GW MEASUREMENT **NA**	LATITUDE/ LONGITUDE **41.296011297/ 122.306684562**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
0	Neat Cement	SM	Silty Sand (SM), yellowish red (5YR/5/6), 20% non-plastic fines, 80% fine to coarse sand, loose to medium dense, dry to moist.	0	EQSH-8-0 1036	0.5/0.5
					EQSH-8-2.5 1044	0.5/0.5
5			@5'; thin zone of wet soil (1-2" thick)	5	EQSH-8-5 1050	0.5/0.5
					EQSH-8-7.5 1054	0.5/0.5
10				10	EQSH-8-10 1101	0.5/0.5
					EQSH-8-12.5 1106	0.5/0.5
15				15	EQSH-8-15 1111	0.5/0.5
			Bottom of borehole at 15.5 feet.			

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER: **EQSH-9**				
PROJECT NUMBER / NAME: **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION: **Mt. Shasta, California**		
APPROVED BY: **Mike Sellwood, PG**				
DRILLING CONTRACTOR / DRILLER: **Cascade Drilling, LP**		LOGGED BY: **M. Sellwood**		
DRILLING EQUIPMENT / METHOD: **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE: **2.25" / GeoProbe**	SAMPLING METHOD: **Continuous**	START-FINISH DATE: **11/11/14 - 11/11/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.)	GROUND SURFACE: **3496.8**	GW SURFACE: **NA**	DATE OF GW MEASUREMENT: **NA**	LATITUDE/ LONGITUDE: **41.295805186/ 122.307034757**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
5	Neat Cement	SM		5	EQSH-9-0 1314	0.5/0.5
					EQSH-9-2.5 1319	0.5/0.5
					EQSH-9-5 1324	0.5/0.5
					EQSH-9-7.5 1328	0.5/0.5
10				10	EQSH-9-10 1333	0.5/0.5
					EQSH-9-12.5 1339	0.5/0.5
15		ML	Silt (ML), yellowish brown (10YR/5/6), 80 low plasticity fines, 20% fine to coarse sand, soft, moist.	15	EQSH-9-15 1346	0.5/0.5
			Bottom of borehole at 15.5 feet.			

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER **NMDU-1**				
PROJECT NUMBER / NAME **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION		
APPROVED BY **Mike Sellwood, PG**		**Mt. Shasta, California**		
DRILLING CONTRACTOR / DRILLER **Cascade Drilling, LP**		LOGGED BY **M. Sellwood**		
DRILLING EQUIPMENT / METHOD **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE **2.25" / GeoProbe**	SAMPLING METHOD **Continuous**	START-FINISH DATE **11/13/14 - 11/13/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.) **3483.0**	GROUND SURFACE **3483.0**	GW SURFACE **NA**	DATE OF GW MEASUREMENT **NA**	LATITUDE/ LONGITUDE **41.29611356/ 122.308465751**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
0	Neat Cement	SM	Silty Sand (SM), strong brown (7.5YR/4/6), 40% non-plastic fines, 60% fine to coarse sand, loose, dry.	0	NMDU-1-0 0928	0.5/0.5
					NMDU-1-2.5 0933	0.5/0.5
5				5	NMDU-1-5 0936	0.5/0.5
					NMDU-1-7.5 0940	0.5/0.5
10				10	NMDU-1-10 0944	0.5/0.5
					NMDU-1-12.5 0948	0.5/0.5
15			Bottom of borehole at 15.5 feet.	15	NMDU-1-15 0952	0.5/0.5

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER **NMDU-2**				
PROJECT NUMBER / NAME **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION		
APPROVED BY **Mike Sellwood, PG**		**Mt. Shasta, California**		
DRILLING CONTRACTOR / DRILLER **Cascade Drilling, LP**		LOGGED BY **M. Sellwood**		
DRILLING EQUIPMENT / METHOD **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE **2.25" / GeoProbe**	SAMPLING METHOD **Continuous**	START-FINISH DATE **11/13/14 - 11/13/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.) **3481.8**	GROUND SURFACE **3481.8**	GW SURFACE **NA**	DATE OF GW MEASUREMENT **NA**	LATITUDE/ LONGITUDE **41.295997489/ 122.308371434**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
0	Neat Cement	SM	Silty Sand (SM), dark brown (7.5YR/3/2), 40% non-plastic fines, 60% fine to coarse sand, loose, moist.	0	NMDU-2-0 1030	0.5/0.5
					NMDU-2-2.5 1034	0.5/0.5
5				5	NMDU-2-5 1037	0.5/0.5
					NMDU-2-7.5 1041	0.5/0.5
10			@10'; wood debris in soil core.	10	NMDU-2-10 1045	0.5/0.5
			@12.5'; color change to strong brown (7.5YR/5/6).		NMDU-2-12.5 1050	0.5/0.5
15			Bottom of borehole at 15.5 feet.	15	NMDU-2-15 1054	0.5/0.5

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER: **NMDU-3**				
PROJECT NUMBER / NAME: **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION: **Mt. Shasta, California**		
APPROVED BY: **Mike Sellwood, PG**				
DRILLING CONTRACTOR / DRILLER: **Cascade Drilling, LP**		LOGGED BY: **M. Sellwood**		
DRILLING EQUIPMENT / METHOD: **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE: **2.25" / GeoProbe**	SAMPLING METHOD: **Continuous**	START-FINISH DATE: **11/13/14 - 11/13/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.)	GROUND SURFACE: **3481.2**	GW SURFACE: **NA**	DATE OF GW MEASUREMENT: **NA**	LATITUDE/ LONGITUDE: **41.295922853/ 122.308542556**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
			Silty Sand (SM), dark brown (7.5YR/3/2), 40% non-plastic fines, 60% fine to coarse sand, loose, moist.		NMDU-3-0 1105	0.5/0.5
					NMDU-3-2.5 1108	0.5/0.5
5				5	NMDU-3-5 1110	0.5/0.5
		SM			NMDU-3-7.5 1112	0.5/0.5
10			@10'; wood debris in soil core.	10	NMDU-3-10 1115	0.5/0.5
			@12.5'; concrete in soil core.		NMDU-3-12.5 1117	0.5/0.5
15				15	NMDU-3-15 1120	0.5/0.5
			Bottom of borehole at 15.5 feet.			

Neat Cement

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER: **NMDU-4**				
PROJECT NUMBER / NAME: **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION: **Mt. Shasta, California**		
APPROVED BY: **Mike Sellwood, PG**				
DRILLING CONTRACTOR / DRILLER: **Cascade Drilling, LP**		LOGGED BY: **M. Sellwood**		
DRILLING EQUIPMENT / METHOD: **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE: **2.25" / GeoProbe**	SAMPLING METHOD: **Continuous**	START-FINISH DATE: **11/13/14 - 11/13/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.)	GROUND SURFACE: **3481.8**	GW SURFACE: **NA**	DATE OF GW MEASUREMENT: **NA**	LATITUDE/ LONGITUDE: **41.296031797/ 122.308635608**

Depth (feet)	Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
0	Neat Cement	SM	Silty Sand (SM), dark brown (7.5YR/3/2), 40% non-plastic fines, 60% fine to coarse sand, loose, moist.	0	NMDU-4-0 1139 (DUP-4 COLLECTED)	0.5/0.5
					NMDU-4-2.5 1146	0.5/0.5
5				5	NMDU-4-5 1149	0.5/0.5
					NMDU-4-7.5 1151	0.5/0.5
10			@12'; wood debris in soil core. @12.5'; hydrocarbon odor.	10	NMDU-4-10 1154	0.5/0.5
					NMDU-4-12.5 1158	0.5/0.5
15			@14'; color change to strong brown (7.5YR/5/6).	15	NMDU-4-15 1201	0.5/0.5
			Bottom of borehole at 15.5 feet.			

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

SOIL BORING LOG

BOREHOLE NUMBER **NMDU-5**				
PROJECT NUMBER / NAME **202311.0000 / The Landing- Mt Shasta Commerce Park**		LOCATION		
APPROVED BY **Mike Sellwood, PG**		**Mt. Shasta, California**		
DRILLING CONTRACTOR / DRILLER **Cascade Drilling, LP**		LOGGED BY **M. Sellwood**		
DRILLING EQUIPMENT / METHOD **Geoprobe 8040DT / Direct Push**		BIT SIZE / BIT TYPE **2.25" / GeoProbe**	SAMPLING METHOD **Continuous**	START-FINISH DATE **11/13/14 - 11/13/14**
CASING MATL. / DIAMETER	SCREEN: TYPE / MATL. / TOTAL LENGTH / DIA. / SLOT SIZE			
ELEVATION OF: (FT.)	GROUND SURFACE **3482.0**	GW SURFACE **NA**	DATE OF GW MEASUREMENT **NA**	LATITUDE/ LONGITUDE **41.296019912/ 122.308502424**

Depth (feet)		Graphic Log	USCS	Visual Description	Depth (feet)	Sample Number	Recovery
				Silty Sand (SM), dark brown (7.5YR/3/2), 40% non-plastic fines, 60% fine to coarse sand, loose, moist.			0.5/0.5 NMDU-5-0 0959
							0.5/0.5 NMDU-5-2.5 1003
5					5		
							0.5/0.5 NMDU-5-5 1007
	Neat Cement		SM	@7.5'; wood debris in soil core.			0.5/0.5 NMDU-5-7.5 1011
10					10		
							0.5/0.5 NMDU-5-10 1015
							0.5/0.5 NMDU-5-12.5 1018
15					15		
				Bottom of borehole at 15.5 feet.			0.5/0.5 NMDU-5-15 1023

SOIL BORING LOG - LOG A EWNN08.GDT - 11/24/14 16:21 - C:\USERS\MSELLWOOD\DOCUMENTS\PROJECTS\MT SHASTA BROWNFIELD\GINT BORING LOGS\MT SHASTA BROWNFIELD.GPJ

APPENDIX C

LABORATORY ANALYTICAL REPORT AND CHAIN OF CUSTODY RECORDS

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WORK ORDER NUMBER: 14-11-1015

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: H & P Mobile GeoChemistry, Inc.

Client Project Name: Mt. Shasta / 202311.0000

Attention: Louise Adams
2470 Impala Drive
Carlsbad, CA 92010-7226

Approved for release on 11/24/2014 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-11-1015

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Work Order Narrative

Work Order: 14-11-1015 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/13/14. They were assigned to Work Order 14-11-1015.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client:	H & P Mobile GeoChemistry, Inc. 2470 Impala Drive Carlsbad, CA 92010-7226	Work Order:	14-11-1015
		Project Name:	Mt. Shasta / 202311.0000
		PO Number:	
		Date/Time Received:	11/13/14 07:30
		Number of Containers:	200
Attn:	Louise Adams		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
EQSH-1-0	14-11-1015-1	11/11/14 09:24	4	Solid
EQSH-1-2.5	14-11-1015-2	11/11/14 09:42	4	Solid
EQSH-1-5	14-11-1015-3	11/11/14 09:50	4	Solid
EQSH-1-7.5	14-11-1015-4	11/11/14 09:57	4	Solid
EQSH-1-10	14-11-1015-5	11/11/14 10:03	4	Solid
EQSH-1-12.5	14-11-1015-6	11/11/14 10:11	4	Solid
EQSH-1-15	14-11-1015-7	11/11/14 10:16	4	Solid
EQSH-8-0	14-11-1015-8	11/11/14 10:36	4	Solid
EQSH-8-2.5	14-11-1015-9	11/11/14 10:44	4	Solid
EQSH-8-5	14-11-1015-10	11/11/14 10:50	4	Solid
EQSH-8-7.5	14-11-1015-11	11/11/14 10:54	4	Solid
EQSH-8-10	14-11-1015-12	11/11/14 11:01	4	Solid
EQSH-8-12.5	14-11-1015-13	11/11/14 11:06	4	Solid
EQSH-8-15	14-11-1015-14	11/11/14 11:11	4	Solid
EQSH-2-0	14-11-1015-15	11/11/14 11:21	4	Solid
EQSH-2-2.5	14-11-1015-16	11/11/14 11:26	4	Solid
EQSH-2-5	14-11-1015-17	11/11/14 11:30	4	Solid
EQSH-2-7.5	14-11-1015-18	11/11/14 11:36	4	Solid
EQSH-2-10	14-11-1015-19	11/11/14 11:41	4	Solid
EQSH-2-12.5	14-11-1015-20	11/11/14 11:45	4	Solid
EQSH-2-15	14-11-1015-21	11/11/14 11:50	4	Solid
EQSH-3-0	14-11-1015-22	11/11/14 11:57	4	Solid
EQSH-3-2.5	14-11-1015-23	11/11/14 12:02	4	Solid
EQSH-3-5	14-11-1015-24	11/11/14 12:07	4	Solid
EQSH-3-7.5	14-11-1015-25	11/11/14 12:12	4	Solid
EQSH-3-10	14-11-1015-26	11/11/14 12:18	4	Solid
EQSH-3-12.5	14-11-1015-27	11/11/14 12:22	4	Solid
EQSH-3-15	14-11-1015-28	11/11/14 12:28	4	Solid
EQSH-4-0	14-11-1015-29	11/11/14 13:56	4	Solid
EQSH-4-2.5	14-11-1015-30	11/11/14 14:01	4	Solid
EQSH-4-5	14-11-1015-31	11/11/14 14:08	4	Solid
EQSH-4-7.5	14-11-1015-32	11/11/14 14:15	4	Solid
EQSH-4-10	14-11-1015-33	11/11/14 14:20	4	Solid
EQSH-4-12.5	14-11-1015-34	11/11/14 14:24	4	Solid
EQSH-4-15	14-11-1015-35	11/11/14 14:29	4	Solid
EQSH-5-0	14-11-1015-36	11/11/14 14:37	4	Solid
EQSH-5-2.5	14-11-1015-37	11/11/14 14:41	4	Solid
EQSH-5-5	14-11-1015-38	11/11/14 14:46	4	Solid
EQSH-5-7.5	14-11-1015-39	11/11/14 14:51	4	Solid
EQSH-5-10	14-11-1015-40	11/11/14 14:56	4	Solid
EQSH-5-12.5	14-11-1015-41	11/11/14 15:00	4	Solid
EQSH-5-15	14-11-1015-42	11/11/14 15:06	4	Solid

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Sample Summary

Client:	H & P Mobile GeoChemistry, Inc. 2470 Impala Drive Carlsbad, CA 92010-7226	Work Order:	14-11-1015
		Project Name:	Mt. Shasta / 202311.0000
		PO Number:	
		Date/Time Received:	11/13/14 07:30
		Number of Containers:	200
Attn:	Louise Adams		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
EQSH-9-0	14-11-1015-43	11/11/14 13:14	4	Solid
EQSH-9-2.5	14-11-1015-44	11/11/14 13:19	4	Solid
EQSH-9-5	14-11-1015-45	11/11/14 13:24	4	Solid
EQSH-9-7.5	14-11-1015-46	11/11/14 13:28	4	Solid
EQSH-9-10	14-11-1015-47	11/11/14 13:33	4	Solid
EQSH-9-12.5	14-11-1015-48	11/11/14 13:39	4	Solid
EQSH-9-15	14-11-1015-49	11/11/14 13:46	4	Solid
EB-1	14-11-1015-50	11/11/14 00:00	4	Aqueous

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3510/SG 2
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**14-11-1015-50-D**	**11/11/14 00:00**	**Aqueous**	**GC 46**	**11/14/14**	**11/18/14 11:36**	**141114B07**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	250	0.100	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	95	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-286-46**	**N/A**	**Aqueous**	**GC 46**	**11/14/14**	**11/18/14 07:48**	**141114B07**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	250	0.100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3510/SG 2
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**14-11-1015-50-D**	**11/11/14 00:00**	**Aqueous**	**GC 46**	**11/14/14**	**11/18/14 11:36**	**141114B06**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	500	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	95	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-296-275**	**N/A**	**Aqueous**	**GC 46**	**11/14/14**	**11/18/14 07:48**	**141114B06**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-0	**14-11-1015-1-A**	**11/11/14 09:24**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 03:42**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	980	130	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	114	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-2.5	**14-11-1015-2-A**	**11/11/14 09:42**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 21:49**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	133	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-5	**14-11-1015-3-A**	**11/11/14 09:50**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 02:52**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	29	25	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	129	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-7.5	**14-11-1015-4-A**	**11/11/14 09:57**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 22:05**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	119	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-10	**14-11-1015-5-A**	**11/11/14 10:03**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 22:22**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	135	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-12.5	**14-11-1015-6-A**	**11/11/14 10:11**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 22:39**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	122	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-15	**14-11-1015-7-A**	**11/11/14 10:16**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 22:56**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	127	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-0	**14-11-1015-8-A**	**11/11/14 10:36**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 03:09**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	900	120	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	138	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-2.5	**14-11-1015-9-A**	**11/11/14 10:44**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 23:13**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	126	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-5	**14-11-1015-10-A**	**11/11/14 10:50**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 23:30**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	116	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-7.5	**14-11-1015-11-A**	**11/11/14 10:54**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 23:46**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	128	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-10	**14-11-1015-12-A**	**11/11/14 11:01**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 00:03**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	119	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-12.5	**14-11-1015-13-A**	**11/11/14 11:06**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 00:20**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	126	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-15	**14-11-1015-14-A**	**11/11/14 11:11**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 01:11**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	123	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-0	**14-11-1015-15-A**	**11/11/14 11:21**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 03:26**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	2300	250	10.0	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	132	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-2.5	**14-11-1015-16-A**	**11/11/14 11:26**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 01:28**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	123	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-5	**14-11-1015-17-A**	**11/11/14 11:30**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 01:44**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-7.5	**14-11-1015-18-A**	**11/11/14 11:36**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 02:01**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	119	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-10	**14-11-1015-19-A**	**11/11/14 11:41**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 02:18**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-12.5	**14-11-1015-20-A**	**11/11/14 11:45**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 02:35**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	123	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-15	**14-11-1015-21-A**	**11/11/14 11:50**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 06:31**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	122	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-0	**14-11-1015-22-A**	**11/11/14 11:57**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 11:17**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	150	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-2.5	**14-11-1015-23-A**	**11/11/14 12:02**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 12:24**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	3500	250	10.0	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	137	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-5	**14-11-1015-24-A**	**11/11/14 12:07**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 06:48**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	117	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-7.5	**14-11-1015-25-A**	**11/11/14 12:12**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 07:05**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	124	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-10	**14-11-1015-26-A**	**11/11/14 12:18**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 07:21**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	116	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-12.5	**14-11-1015-27-A**	**11/11/14 12:22**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 07:38**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-15	**14-11-1015-28-A**	**11/11/14 12:28**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 07:55**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	115	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-0	**14-11-1015-29-A**	**11/11/14 13:56**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 11:00**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	1100	120	5.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	121	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-2.5	**14-11-1015-30-A**	**11/11/14 14:01**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 08:12**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	125	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-5	**14-11-1015-31-A**	**11/11/14 14:08**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 08:28**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	38	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	118	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-7.5	**14-11-1015-32-A**	**11/11/14 14:15**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 08:45**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	115	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-10	**14-11-1015-33-A**	**11/11/14 14:20**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 09:02**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	40	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	115	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-12.5	**14-11-1015-34-A**	**11/11/14 14:24**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 09:53**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	125	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-15	**14-11-1015-35-A**	**11/11/14 14:29**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 10:10**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	115	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-0	**14-11-1015-36-A**	**11/11/14 14:37**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 11:50**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	73	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	113	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-2.5	**14-11-1015-37-A**	**11/11/14 14:41**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 12:07**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	280	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	117	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-5	**14-11-1015-38-A**	**11/11/14 14:46**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 10:27**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	116	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-7.5	**14-11-1015-39-A**	**11/11/14 14:51**	**Solid**	**GC 45**	**11/17/14**	**11/20/14 14:13**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	7400	620	25.0	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	126	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-10	**14-11-1015-40-A**	**11/11/14 14:56**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 10:43**	**141117B04**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	160	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	124	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-12.5	**14-11-1015-41-A**	**11/11/14 15:00**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 05:44**	**141117B06**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	550	120	5.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	101	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-15	**14-11-1015-42-A**	**11/11/14 15:06**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 03:55**	**141117B06**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-0	**14-11-1015-43-A**	**11/11/14 13:14**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 13:34**	**141117B06**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	2700	120	5.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-2.5	**14-11-1015-44-A**	**11/11/14 13:19**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 04:31**	**141117B06**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-5	**14-11-1015-45-A**	**11/11/14 13:24**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 06:02**	**141117B06**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	150	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-7.5	**14-11-1015-46-A**	**11/11/14 13:28**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 04:49**	**141117B06**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-10	**14-11-1015-47-A**	**11/11/14 13:33**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 05:08**	**141117B06**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	75	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-12.5	**14-11-1015-48-A**	**11/11/14 13:39**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 05:26**	**141117B06**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-15	**14-11-1015-49-A**	**11/11/14 13:46**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 04:13**	**141117B06**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-420-1134**	**N/A**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 19:51**	**141117L02**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	124	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-0	**14-11-1015-1-A**	**11/11/14 09:24**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 03:42**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	230	25	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	114	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-2.5	**14-11-1015-2-A**	**11/11/14 09:42**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 21:49**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	133	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-5	**14-11-1015-3-A**	**11/11/14 09:50**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 02:52**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	12	5.0	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	129	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-7.5	**14-11-1015-4-A**	**11/11/14 09:57**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 22:05**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	119	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-10	**14-11-1015-5-A**	**11/11/14 10:03**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 22:22**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	135	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-12.5	**14-11-1015-6-A**	**11/11/14 10:11**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 22:39**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	122	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-15	**14-11-1015-7-A**	**11/11/14 10:16**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 22:56**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	127	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-0	**14-11-1015-8-A**	**11/11/14 10:36**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 03:09**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	350	25	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	138	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-2.5	**14-11-1015-9-A**	**11/11/14 10:44**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 23:13**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	126	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-5	**14-11-1015-10-A**	**11/11/14 10:50**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 23:30**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	116	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-7.5	**14-11-1015-11-A**	**11/11/14 10:54**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 23:46**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	128	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-10	**14-11-1015-12-A**	**11/11/14 11:01**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 00:03**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	119	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-12.5	**14-11-1015-13-A**	**11/11/14 11:06**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 00:20**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	126	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-15	**14-11-1015-14-A**	**11/11/14 11:11**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 01:11**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	123	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-0	**14-11-1015-15-A**	**11/11/14 11:21**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 03:26**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	200	49	10.0	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	132	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-2.5	**14-11-1015-16-A**	**11/11/14 11:26**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 01:28**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	123	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-5	**14-11-1015-17-A**	**11/11/14 11:30**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 01:44**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-7.5	**14-11-1015-18-A**	**11/11/14 11:36**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 02:01**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	119	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-10	**14-11-1015-19-A**	**11/11/14 11:41**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 02:18**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-12.5	**14-11-1015-20-A**	**11/11/14 11:45**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 02:35**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	123	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-15	**14-11-1015-21-A**	**11/11/14 11:50**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 06:31**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	122	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-0	**14-11-1015-22-A**	**11/11/14 11:57**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 11:17**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	41	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-2.5	**14-11-1015-23-A**	**11/11/14 12:02**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 12:24**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	970	50	10.0	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	137	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-5	**14-11-1015-24-A**	**11/11/14 12:07**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 06:48**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	117	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-7.5	**14-11-1015-25-A**	**11/11/14 12:12**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 07:05**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	124	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-10	**14-11-1015-26-A**	**11/11/14 12:18**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 07:21**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	116	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-12.5	**14-11-1015-27-A**	**11/11/14 12:22**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 07:38**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-15	**14-11-1015-28-A**	**11/11/14 12:28**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 07:55**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	115	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-0	**14-11-1015-29-A**	**11/11/14 13:56**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 11:00**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	730	25	5.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	121	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-2.5	**14-11-1015-30-A**	**11/11/14 14:01**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 08:12**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	125	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-5	**14-11-1015-31-A**	**11/11/14 14:08**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 08:28**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	18	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	118	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-7.5	**14-11-1015-32-A**	**11/11/14 14:15**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 08:45**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	16	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	115	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-10	**14-11-1015-33-A**	**11/11/14 14:20**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 09:02**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	31	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	115	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-12.5	**14-11-1015-34-A**	**11/11/14 14:24**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 09:53**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	7.6	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	125	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-15	**14-11-1015-35-A**	**11/11/14 14:29**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 10:10**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	6.8	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	115	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-0	**14-11-1015-36-A**	**11/11/14 14:37**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 11:50**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	15	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	113	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-2.5	**14-11-1015-37-A**	**11/11/14 14:41**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 12:07**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	71	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	117	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-5	**14-11-1015-38-A**	**11/11/14 14:46**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 10:27**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	116	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-7.5	**14-11-1015-39-A**	**11/11/14 14:51**	**Solid**	**GC 45**	**11/17/14**	**11/20/14 14:13**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	3100	120	25.0	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	126	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-10	**14-11-1015-40-A**	**11/11/14 14:56**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 10:43**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	110	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	124	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-12.5	**14-11-1015-41-A**	**11/11/14 15:00**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 05:44**	**141117B05**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	170	25	5.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	101	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-15	**14-11-1015-42-A**	**11/11/14 15:06**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 03:55**	**141117B05**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	9.0	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-0	**14-11-1015-43-A**	**11/11/14 13:14**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 13:34**	**141117B05**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	320	25	5.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-2.5	**14-11-1015-44-A**	**11/11/14 13:19**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 04:31**	**141117B05**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-5	**14-11-1015-45-A**	**11/11/14 13:24**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 06:02**	**141117B05**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	61	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-7.5	**14-11-1015-46-A**	**11/11/14 13:28**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 04:49**	**141117B05**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-10	**14-11-1015-47-A**	**11/11/14 13:33**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 05:08**	**141117B05**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	35	4.9	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-12.5	**14-11-1015-48-A**	**11/11/14 13:39**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 05:26**	**141117B05**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-15	**14-11-1015-49-A**	**11/11/14 13:46**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 04:13**	**141117B05**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-422-1490**	**N/A**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 04:33**	**141117B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	123	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Mt. Shasta / 202311.0000			Page 11 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-422-1489**	**N/A**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 01:47**	**141117B05**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-422-1491**	**N/A**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 19:51**	**141117L01**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	124	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**14-11-1015-50-A**	**11/11/14 00:00**	**Aqueous**	**GC 56**	**11/13/14**	**11/13/14 17:39**	**141113L025**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-704-923**	**N/A**	**Aqueous**	**GC 56**	**11/13/14**	**11/13/14 13:50**	**141113L025**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	38-134	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-0	**14-11-1015-1-C**	**11/11/14 09:24**	**Solid**	**GC 42**	**11/13/14**	**11/17/14 18:08**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	0.29	0.28	1.00	HD,ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	62	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-2.5	**14-11-1015-2-D**	**11/11/14 09:42**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 14:50**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.33	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	76	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-5	**14-11-1015-3-C**	**11/11/14 09:50**	**Solid**	**GC 42**	**11/13/14**	**11/17/14 19:18**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.42	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	68	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-7.5	**14-11-1015-4-C**	**11/11/14 09:57**	**Solid**	**GC 42**	**11/13/14**	**11/17/14 19:53**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.33	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	69	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-10	**14-11-1015-5-C**	**11/11/14 10:03**	**Solid**	**GC 42**	**11/13/14**	**11/17/14 20:28**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.35	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	71	60-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-12.5	**14-11-1015-6-C**	**11/11/14 10:11**	**Solid**	**GC 42**	**11/13/14**	**11/17/14 21:03**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.34	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	73	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-1-15	**14-11-1015-7-C**	**11/11/14 10:16**	**Solid**	**GC 42**	**11/13/14**	**11/17/14 21:38**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.29	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	80	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-0	**14-11-1015-8-C**	**11/11/14 10:36**	**Solid**	**GC 42**	**11/13/14**	**11/17/14 22:12**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	66	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-2.5	**14-11-1015-9-D**	**11/11/14 10:44**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 15:24**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	73	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-5	**14-11-1015-10-C**	**11/11/14 10:50**	**Solid**	**GC 42**	**11/13/14**	**11/17/14 23:22**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.40	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	67	60-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-7.5	**14-11-1015-11-C**	**11/11/14 10:54**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 00:32**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	69	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-10	**14-11-1015-12-C**	**11/11/14 11:01**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 01:07**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	69	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-12.5	**14-11-1015-13-C**	**11/11/14 11:06**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 01:42**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	69	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-8-15	**14-11-1015-14-C**	**11/11/14 11:11**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 02:17**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	70	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-0	**14-11-1015-15-C**	**11/11/14 11:21**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 02:52**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.24	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	80	60-126	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-2.5	**14-11-1015-16-C**	**11/11/14 11:26**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 03:27**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.30	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	34	60-126	2,6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-5	**14-11-1015-17-D**	**11/11/14 11:30**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 16:34**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.29	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	72	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-7.5	**14-11-1015-18-C**	**11/11/14 11:36**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 04:37**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	63	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-10	**14-11-1015-19-C**	**11/11/14 11:41**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 05:12**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	68	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-12.5	**14-11-1015-20-C**	**11/11/14 11:45**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 05:47**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	74	60-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-2-15	**14-11-1015-21-C**	**11/11/14 11:50**	**Solid**	**GC 4**	**11/13/14**	**11/17/14 19:54**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	78	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-0	**14-11-1015-22-C**	**11/11/14 11:57**	**Solid**	**GC 4**	**11/13/14**	**11/17/14 20:27**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	75	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-2.5	**14-11-1015-23-C**	**11/11/14 12:02**	**Solid**	**GC 4**	**11/13/14**	**11/17/14 21:00**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.30	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	75	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-5	**14-11-1015-24-C**	**11/11/14 12:07**	**Solid**	**GC 4**	**11/13/14**	**11/17/14 21:33**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.30	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	78	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-7.5	**14-11-1015-25-C**	**11/11/14 12:12**	**Solid**	**GC 4**	**11/13/14**	**11/17/14 22:05**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	74	60-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-10	**14-11-1015-26-C**	**11/11/14 12:18**	**Solid**	**GC 4**	**11/13/14**	**11/17/14 22:38**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	79	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-12.5	**14-11-1015-27-C**	**11/11/14 12:22**	**Solid**	**GC 4**	**11/13/14**	**11/17/14 23:11**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	77	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-3-15	**14-11-1015-28-C**	**11/11/14 12:28**	**Solid**	**GC 4**	**11/13/14**	**11/17/14 23:43**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	70	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-0	**14-11-1015-29-C**	**11/11/14 13:56**	**Solid**	**GC 4**	**11/13/14**	**11/18/14 00:16**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.30	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	78	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-2.5	**14-11-1015-30-C**	**11/11/14 14:01**	**Solid**	**GC 4**	**11/13/14**	**11/18/14 00:49**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	77	60-126	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-5	**14-11-1015-31-C**	**11/11/14 14:08**	**Solid**	**GC 4**	**11/13/14**	**11/18/14 01:54**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	80	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-7.5	**14-11-1015-32-C**	**11/11/14 14:15**	**Solid**	**GC 4**	**11/13/14**	**11/18/14 02:27**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.23	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	78	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-10	**14-11-1015-33-C**	**11/11/14 14:20**	**Solid**	**GC 4**	**11/13/14**	**11/18/14 02:59**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	57	60-126	2,6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-12.5	**14-11-1015-34-C**	**11/11/14 14:24**	**Solid**	**GC 4**	**11/13/14**	**11/18/14 03:32**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	78	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-4-15	**14-11-1015-35-C**	**11/11/14 14:29**	**Solid**	**GC 4**	**11/13/14**	**11/18/14 04:05**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	76	60-126	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-0	**14-11-1015-36-C**	**11/11/14 14:37**	**Solid**	**GC 4**	**11/13/14**	**11/18/14 04:38**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.29	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	73	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-2.5	**14-11-1015-37-C**	**11/11/14 14:41**	**Solid**	**GC 4**	**11/13/14**	**11/18/14 05:10**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.24	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	76	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-5	**14-11-1015-38-C**	**11/11/14 14:46**	**Solid**	**GC 4**	**11/13/14**	**11/18/14 05:43**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	75	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-7.5	**14-11-1015-39-C**	**11/11/14 14:51**	**Solid**	**GC 4**	**11/13/14**	**11/18/14 06:16**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	79	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-10	**14-11-1015-40-C**	**11/11/14 14:56**	**Solid**	**GC 4**	**11/13/14**	**11/18/14 06:49**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	81	60-126	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-12.5	**14-11-1015-41-C**	**11/11/14 15:00**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 17:44**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	61	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-5-15	**14-11-1015-42-C**	**11/11/14 15:06**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 18:19**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	66	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-0	**14-11-1015-43-C**	**11/11/14 13:14**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 18:54**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	53	60-126	2,6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-2.5	**14-11-1015-44-C**	**11/11/14 13:19**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 19:29**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	65	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-5	**14-11-1015-45-C**	**11/11/14 13:24**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 20:04**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	66	60-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-7.5	**14-11-1015-46-C**	**11/11/14 13:28**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 21:14**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	68	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-10	**14-11-1015-47-C**	**11/11/14 13:33**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 21:49**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	73	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-12.5	**14-11-1015-48-C**	**11/11/14 13:39**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 22:23**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	41	60-126	2,6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-9-15	**14-11-1015-49-C**	**11/11/14 13:46**	**Solid**	**GC 42**	**11/13/14**	**11/18/14 22:58**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.30	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	74	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-285-5358**	**N/A**	**Solid**	**GC 42**	**11/17/14**	**11/17/14 15:48**	**141117L022**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	72	60-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/13/14
Work Order: 14-11-1015
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-285-5364**	**N/A**	**Solid**	**GC 4**	**11/17/14**	**11/17/14 17:44**	**141117L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	78	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-285-5372**	**N/A**	**Solid**	**GC 42**	**11/18/14**	**11/18/14 12:30**	**141118L039**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	75	60-126	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EQSH-9-15	**Sample**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 04:13**	**141117S06**
EQSH-9-15	**Matrix Spike**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 03:18**	**141117S06**
EQSH-9-15	**Matrix Spike Duplicate**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 03:36**	**141117S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	ND	400.0	472.8	118	496.2	124	64-130	5	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EQSH-1-2.5	**Sample**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 21:49**	**141117S02**
EQSH-1-2.5	**Matrix Spike**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 21:15**	**141117S02**
EQSH-1-2.5	**Matrix Spike Duplicate**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 21:31**	**141117S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	ND	400.0	585.2	146	546.6	137	64-130	7	0-15	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EQSH-3-12.5	**Sample**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 07:38**	**141117S04**
EQSH-3-12.5	**Matrix Spike**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 05:57**	**141117S04**
EQSH-3-12.5	**Matrix Spike Duplicate**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 06:14**	**141117S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	ND	400.0	561.8	140	589.8	147	64-130	5	0-15	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EQSH-9-15	**Sample**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 04:13**	**141117S05**
EQSH-9-15	**Matrix Spike**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 02:42**	**141117S05**
EQSH-9-15	**Matrix Spike Duplicate**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 03:00**	**141117S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	458.4	115	431.0	108	64-130	6	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EQSH-1-2.5	**Sample**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 21:49**	**141117S01**
EQSH-1-2.5	**Matrix Spike**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 20:41**	**141117S01**
EQSH-1-2.5	**Matrix Spike Duplicate**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 20:58**	**141117S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	440.5	110	536.3	134	64-130	20	0-15	3,4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 6 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EQSH-3-12.5	**Sample**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 07:38**	**141117S03**
EQSH-3-12.5	**Matrix Spike**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 05:23**	**141117S03**
EQSH-3-12.5	**Matrix Spike Duplicate**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 05:41**	**141117S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	491.5	123	564.6	141	64-130	14	0-15	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-11-0935-1	**Sample**	**Aqueous**	**GC 56**	**11/13/14**	**11/13/14 16:04**	**141113S011**
14-11-0935-1	**Matrix Spike**	**Aqueous**	**GC 56**	**11/13/14**	**11/13/14 16:35**	**141113S011**
14-11-0935-1	**Matrix Spike Duplicate**	**Aqueous**	**GC 56**	**11/13/14**	**11/13/14 17:07**	**141113S011**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1721	86	1749	87	68-122	2	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3510/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 1 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-286-46	**LCS**	**Aqueous**	**GC 46**	**11/14/14**	**11/18/14 09:19**	**141114B07**
099-15-286-46	**LCSD**	**Aqueous**	**GC 46**	**11/14/14**	**11/18/14 10:58**	**141114B07**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	2000	1899	95	1944	97	75-117	2	0-13	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3510/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 2 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-296-275	**LCS**	**Aqueous**	**GC 46**	**11/14/14**	**11/18/14 08:42**	**141114B06**
099-15-296-275	**LCSD**	**Aqueous**	**GC 46**	**11/14/14**	**11/18/14 09:01**	**141114B06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	20000	20030	100	19420	97	75-117	3	0-13	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 3 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-420-1132	**LCS**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 02:24**	**141117B06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Motor Oil	400.0	488.5	122	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 4 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-420-1137	**LCS**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 05:07**	**141117B04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Motor Oil	400.0	482.3	121	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 5 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-420-1134	**LCS**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 20:24**	**141117L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Motor Oil	400.0	461.5	115	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 6 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-422-1489	**LCS**	**Solid**	**GC 46**	**11/17/14**	**11/19/14 02:05**	**141117B05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	451.7	113	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 7 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-422-1490	**LCS**	**Solid**	**GC 47**	**11/17/14**	**11/19/14 04:50**	**141117B03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	492.0	123	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 8 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-422-1491	**LCS**	**Solid**	**GC 47**	**11/17/14**	**11/18/14 20:08**	**141117L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	492.3	123	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/13/14
2470 Impala Drive		Work Order:	14-11-1015
Carlsbad, CA 92010-7226		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 9 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-704-923	**LCS**	**Aqueous**	**GC 56**	**11/13/14**	**11/13/14 13:18**	**141113L025**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Gasoline	2000	1964	98	78-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.	Date Received: 11/13/14
2470 Impala Drive	Work Order: 14-11-1015
Carlsbad, CA 92010-7226	Preparation: EPA 5035
	Method: EPA 8015B (M)
Project: Mt. Shasta / 202311.0000	Page 10 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-285-5364	**LCS**	**Solid**	**GC 4**	**11/17/14**	**11/17/14 18:49**	**141117L033**
099-12-285-5364	**LCSD**	**Solid**	**GC 4**	**11/17/14**	**11/17/14 19:22**	**141117L033**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2.000	2.236	112	2.211	111	55-139	1	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.	Date Received: 11/13/14
2470 Impala Drive	Work Order: 14-11-1015
Carlsbad, CA 92010-7226	Preparation: EPA 5035
	Method: EPA 8015B (M)
Project: Mt. Shasta / 202311.0000	Page 11 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-285-5358	**LCS**	**Solid**	**GC 42**	**11/17/14**	**11/17/14 16:58**	**141117L022**
099-12-285-5358	**LCSD**	**Solid**	**GC 42**	**11/17/14**	**11/17/14 17:33**	**141117L022**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2.000	1.968	98	1.983	99	55-139	1	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.	Date Received: 11/13/14
2470 Impala Drive	Work Order: 14-11-1015
Carlsbad, CA 92010-7226	Preparation: EPA 5035
	Method: EPA 8015B (M)
Project: Mt. Shasta / 202311.0000	Page 12 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-285-5372	**LCS**	**Solid**	**GC 42**	**11/18/14**	**11/18/14 13:40**	**141118L039**
099-12-285-5372	**LCSD**	**Solid**	**GC 42**	**11/18/14**	**11/18/14 14:15**	**141118L039**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2.000	1.939	97	1.775	89	55-139	9	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-11-1015 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8015B (M)	EPA 5035	797	GC 4	2
EPA 8015B (M)	EPA 5035	797	GC 42	2
EPA 8015B (M)	EPA 5030C	933	GC 56	2
EPA 8015B (M)	EPA 3550/SG 2	500	GC 46	1
EPA 8015B (M)	EPA 3550/SG 2	607	GC 47	1
EPA 8015B (M)	EPA 3550/SG 2	682	GC 45	1
EPA 8015B (M)	EPA 3550/SG 2	682	GC 47	1
EPA 8015B (M)	EPA 3510/SG 2	500	GC 46	1

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Glossary of Terms and Qualifiers

Work Order: 14-11-1015 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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SOIL / WATER Chain of Custody

DATE: 11/11/14
Page 1 of 5

Lab Client and Project Information

Lab Client/Consultant: TRC
Lab Client Project Manager: Gary Gundersen
Lab Client Address: 10680 White Rock Rd. Suite 100
Lab Client City, State, Zip: Rancho Cordova, CA, 95670
Phone Number: (916) 366-0632

Project Name / #: Mt. Shasta 202311.0000
Project Location: Mt. Shasta
Report E-Mail(s): ggundersen@trcsolutions.com
msellwood@trcsolutions.com

Sample Receipt (Lab Use Only)

Date Rec'd: Control #:
H&P Project #
Lab Work Order # 14-11-1015
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below
Custody Seal Intact: ☐ Yes ☐ No Temp:
Outside Lab:
Receipt Notes/Tracking #:
Lab PM Initials:

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:
☐ CA Geotracker Global ID:

Turnaround Time

☒ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☐ Mobile Lab
☐ 48-Hr Rush ☐ Other:

Sampler Information

Sampler(s): M. Sellwood
Signature: M. Sellwood
Date: 11/11/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams
* TPH-d silica gel cleanup

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH-d-mod by 8015B					
1	EQSH-1-0		11/11/14	0924	SOIL	Encore (35)/Jar	4	None							X					
2	EQSH-1-2.5			0942																
3	EQSH-1-5			0950																
4	EQSH-1-7.5			0957																
5	EQSH-1-10			1003																
6	EQSH-1-12.5			1011																
7	EQSH-1-15			1016																
8	EQSH-8-0			1036																
9	EQSH-8-2.5			1044																
10	EQSH-8-5		↓	1050	↓	↓	↓	↓							↓					

Approved/Relinquished by: M. Sellwood	Company: TRC	Date: 11/12/14	Time: 1000 MS	Received by:	Company:	Date:	Time:
Approved/Relinquished by: FedEx	Company:	Date: 11/13/14	Time: 0730	Received by: Wchale	Company: ECL	Date: 11/13/14	Time: 0730
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Rev 12/31/2013

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SOIL / WATER Chain of Custody

DATE: 11/11/14
Page 2 of 5

Lab Client and Project Information

Lab Client/Consultant: TRC	Project Name / #: Mt. Shasta 202311.0000
Lab Client Project Manager:	Project Location: Mt. Shasta
Lab Client Address:	Report E-Mail(s):
Lab Client City, State, Zip:	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order # 1015	
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements	Turnaround Time	Sampler Information
☒ Standard Report ☐ Level III ☐ Level IV	☒ 5-7 day Stnd ☐ 24-Hr Rush	Sampler(s): M. Sellwood
☐ Excel EDD ☐ Other EDD:_____	☐ 3-day Rush ☐ Mobile Lab	Signature: Mike Sellwood
☐ CA Geotracker Global ID:_____	☐ 48-Hr Rush ☐ Other:____	Date: 11/11/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams
* TPH-d silica gel cleanup

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH-d-modified by 8015B					
11	EQSH-8-7.5		11/11/14	1054	SOIL	Encore 25/Jar	4	None												
12	EQSH-8-10			1101																
13	EQSH-8-12.5			1106																
14	EQSH-8-15			1111																
15	EQSH-2-0			1121																
16	EQSH-2-2.5			1126																
17	EQSH-2-5			1130																
18	EQSH-2-7.5			1136																
19	EQSH-2-10			1141																
20	EQSH-2-12.5			1145																

	Company:	Date:	Time:		Company:	Date:	Time:
Approved/Relinquished by: Mike Sellwood	TRC	11/12/14	1000 ms	Received by:			
Approved/Relinquished by: FEDEX		11/13/14	0730	Received by: Wchat	ECL	11/13/14	0730
Approved/Relinquished by:				Received by:			

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

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SOIL / WATER Chain of Custody

DATE: 11/11/14

Lab Client and Project Information

Lab Client/Consultant: TRC
Lab Client Project Manager:
Lab Client Address:
Lab Client City, State, Zip:
Phone Number:
Project Name / #: Mt. Shasta 202311.0000
Project Location: Mt. Shasta
Report E-Mail(s):

Sample Receipt (Lab Use Only)

Date Rec'd: Control #:
H&P Project #
Lab Work Order # 1015
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below
Custody Seal Intact: ☐ Yes ☐ No Temp:
Outside Lab:
Receipt Notes/Tracking #:
Lab PM Initials:

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☒ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☐ Mobile Lab
☐ 48-Hr Rush ☐ Other:____

Sampler Information

Sampler(s): Mike Sellwood
Signature: Mike Sellwood
Date: 11/11/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams
* TPH-d silica gel cleanup

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH-d, mod. by 8015B						
21	EQSH-2-15		11/11/14	1150	SOIL	Encore(3)/Jar	4	None							X						
22	EQSH-3-0			1157																	
23	EQSH-3-2.5			1202																	
24	EQSH-3-5			1207																	
25	EQSH-3-7.5			1212																	
26	EQSH-3-10			1218																	
27	EQSH-3-12.5			1222																	
28	EQSH-3-15			1226																	
29	EQSH-4-0			1356																	
30	EQSH-4-2.5			1401																	

Approved/Relinquished by: Mike Sellwood	Company: TRC	Date: 11/12/14	Time: 1000 ms	Received by:	Company:	Date:	Time:
Approved/Relinquished by: FEDEX	Company:	Date: 11/13/14	Time: 0730	Received by: Wdatt	Company: ECI	Date: 11/13/14	Time: 0730
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

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Mobile Geochemistry Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

SOIL / WATER Chain of Custody

DATE: 11/11/14

Lab Client and Project Information

Lab Client/Consultant: TRC	Project Name / #: Mt. Shasta 202311.0000
Lab Client Project Manager:	Project Location: Mt. Shasta
Lab Client Address:	Report E-Mail(s):
Lab Client City, State, Zip:	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order #	1015
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	Lab PM Initials:

Reporting Requirements	Turnaround Time	Sampler Information
☒ Standard Report ☐ Level III ☐ Level IV	☒ 5-7 day Stnd ☐ 24-Hr Rush	Sampler(s): Mike Sellwood
☐ Excel EDD ☐ Other EDD:_____	☐ 3-day Rush ☐ Mobile Lab	Signature: Mike Sellwood
☐ CA Geotracker Global ID:_____	☐ 48-Hr Rush ☐ Other:_____	Date: 11/11/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams
* TPH-d silica gel cleanup

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH-d-mod by 8015						
31	EQSH-4-5		11/11/14	1408	Soil	Encore (3)/Jar	4	None													
32	EQSH-4-7.5			1415																	
33	EQSH-4-10			1420																	
34	EQSH-4-12.5			1424																	
35	EQSH-4-15			1429																	
36	EQSH-5-0			1437																	
37	EQSH-5-2.5			1441																	
38	EQSH-5-5			1446																	
39	EQSH-5-7.5			1451																	
40	EQSH-5-10			1456																	

Approved/Relinquished by: Mike Sellwood	Company: TRC	Date: 11/12/14	Time: 1000 ms	Received by:	Company:	Date:	Time:
Approved/Relinquished by: Fedex	Company:	Date: 11/13/14	Time: 0730	Received by: Wdat	Company: ECI	Date: 11/13/14	Time: 0730
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

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Mobile Geochemistry Inc.
2470 Impala Drive, Carlsbad, CA 92010
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SOIL / WATER Chain of Custody

DATE: 11/11/14
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Lab Client and Project Information

Lab Client/Consultant: TRC.	Project Name / #: Mt. Shasta 202311.0000
Lab Client Project Manager:	Project Location: mt. Shasta
Lab Client Address:	Report E-Mail(s):
Lab Client City, State, Zip:	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order #	1015
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	Lab PM Initials:

Reporting Requirements	Turnaround Time	Sampler Information
☒ Standard Report ☐ Level III ☐ Level IV	☒ 5-7 day Stnd ☐ 24-Hr Rush	Sampler(s): M. Sellwood
☐ Excel EDD ☐ Other EDD:_____	☐ 3-day Rush ☐ Mobile Lab	Signature: Mike Sellwood
☐ CA Geotracker Global ID:_____	☐ 48-Hr Rush ☐ Other:_____	Date: 11/11/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams
* TPH-d silica gel cleanup

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH d,mo-g by 8015B						
41	EQSH-5-12.5		11/11/14	1500	Soil	Encore (3)/Jar	4	None													
42	EQSH-5-15			1506																	
43	EQSH-9-0			1314																	
44	EQSH-9-2.5			1319																	
45	EQSH-9-5			1324																	
46	EQSH-9-7.5			1328																	
47	EQSH-9-10			1333																	
48	EQSH-9-12.5			1339																	
49	EQSH-9-15			1346																	
50	EB-1			—	water	VOA (3)/Amber	4	HCl													

Approved/Relinquished by: MS Ellwood	Company: TRC	Date: 11/12/14	Time: 1000	Received by:	Company:	Date:	Time:
Approved/Relinquished by: Fedex	Company:	Date: 11/13/14	Time: 0730	Received by: Wbrain	Company: EES	Date: 11/13/14	Time: 0930
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

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WORK ORDER #: 14-11-1015

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: TRC

DATE: 11/13/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C - 0.2 °C (CF) = 2.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 426

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 426

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: SM6

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☑EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☑500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: SM6

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: 15

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 15

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WORK ORDER NUMBER: 14-11-1168

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: H & P Mobile GeoChemistry, Inc.

Client Project Name: Mt. Shasta / 202311.0000

Attention: Louise Adams
2470 Impala Drive
Carlsbad, CA 92010-7226

Approved for release on 11/26/2014 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-11-1168

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Work Order Narrative

Work Order: 14-11-1168 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/14/14. They were assigned to Work Order 14-11-1168.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client:	H & P Mobile GeoChemistry, Inc. 2470 Impala Drive Carlsbad, CA 92010-7226	Work Order:	14-11-1168
		Project Name:	Mt. Shasta / 202311.0000
		PO Number:	
		Date/Time Received:	11/14/14 07:35
		Number of Containers:	174
Attn:	Louise Adams		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
EQSH-6-0	14-11-1168-1	11/12/14 09:16	4	Solid
EQSH-6-2.5	14-11-1168-2	11/12/14 09:19	4	Solid
EQSH-6-5	14-11-1168-3	11/12/14 09:27	4	Solid
EQSH-6-7.5	14-11-1168-4	11/12/14 09:30	4	Solid
EQSH-6-10	14-11-1168-5	11/12/14 09:34	4	Solid
EQSH-6-12.5	14-11-1168-6	11/12/14 09:37	4	Solid
EQSH-6-15	14-11-1168-7	11/12/14 09:42	4	Solid
EQSH-7-0	14-11-1168-8	11/12/14 08:08	4	Solid
EQSH-7-2.5	14-11-1168-9	11/12/14 08:14	4	Solid
EQSH-7-5	14-11-1168-10	11/12/14 08:22	4	Solid
EQSH-7-7.5	14-11-1168-11	11/12/14 08:27	4	Solid
EQSH-7-10	14-11-1168-12	11/12/14 08:32	4	Solid
EQSH-7-12.5	14-11-1168-13	11/12/14 08:35	4	Solid
EQSH-7-15	14-11-1168-14	11/12/14 08:39	4	Solid
EQSH-10-0	14-11-1168-15	11/12/14 08:43	4	Solid
EQSH-10-2.5	14-11-1168-16	11/12/14 08:47	4	Solid
EQSH-10-5	14-11-1168-17	11/12/14 08:52	4	Solid
EQSH-10-7.5	14-11-1168-18	11/12/14 09:00	4	Solid
EQSH-10-10	14-11-1168-19	11/12/14 09:03	4	Solid
EQSH-10-12.5	14-11-1168-20	11/12/14 09:07	4	Solid
EQSH-10-15	14-11-1168-21	11/12/14 09:11	4	Solid
DUP-1	14-11-1168-22	11/12/14 00:00	4	Solid
DUP-2	14-11-1168-23	11/12/14 00:00	4	Solid
DIPT-3-0	14-11-1168-24	11/12/14 10:39	1	Solid
DIPT-3-5	14-11-1168-25	11/12/14 12:15	1	Solid
DIPT-3-10	14-11-1168-26	11/12/14 12:25	1	Solid
DIPT-3-15	14-11-1168-27	11/12/14 12:28	1	Solid
DIPT-5-0	14-11-1168-28	11/12/14 11:34	1	Solid
DIPT-5-5	14-11-1168-29	11/12/14 11:44	1	Solid
DIPT-5-10	14-11-1168-30	11/12/14 11:48	1	Solid
DIPT-5-15	14-11-1168-31	11/12/14 11:52	1	Solid
DIPT-2-0	14-11-1168-32	11/12/14 12:47	1	Solid
DIPT-2-5	14-11-1168-33	11/12/14 12:53	1	Solid
DIPT-2-10	14-11-1168-34	11/12/14 13:00	1	Solid
DIPT-2-15	14-11-1168-35	11/12/14 13:07	1	Solid
DIPT-8-0	14-11-1168-36	11/12/14 13:58	1	Solid
DIPT-8-5	14-11-1168-37	11/12/14 14:03	1	Solid
DIPT-8-10	14-11-1168-38	11/12/14 14:05	1	Solid
DIPT-8-15	14-11-1168-39	11/12/14 14:11	1	Solid
DIPT-4-0	14-11-1168-40	11/12/14 14:25	1	Solid
EB-2	14-11-1168-41	11/12/14 00:00	1	Aqueous
DIPT-4-5	14-11-1168-42	11/12/14 14:32	4	Solid

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Sample Summary

Client:	H & P Mobile GeoChemistry, Inc. 2470 Impala Drive Carlsbad, CA 92010-7226	Work Order:	14-11-1168
		Project Name:	Mt. Shasta / 202311.0000
		PO Number:	
		Date/Time Received:	11/14/14 07:35
		Number of Containers:	174
Attn:	Louise Adams		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
DIPT-4-10	14-11-1168-43	11/12/14 14:34	4	Solid
DIPT-4-15	14-11-1168-44	11/12/14 14:42	4	Solid
DIPT-7-0	14-11-1168-45	11/12/14 14:56	4	Solid
DIPT-7-5	14-11-1168-46	11/12/14 15:02	4	Solid
DIPT-7-10	14-11-1168-47	11/12/14 15:04	4	Solid
DIPT-7-15	14-11-1168-48	11/12/14 15:16	4	Solid
DIPT-6-0	14-11-1168-49	11/12/14 15:23	4	Solid
DIPT-6-5	14-11-1168-50	11/12/14 15:29	4	Solid
DIPT-6-10	14-11-1168-51	11/12/14 15:38	4	Solid
DIPT-6-15	14-11-1168-52	11/12/14 15:40	4	Solid
DIPT-1-0	14-11-1168-53	11/12/14 16:08	4	Solid
DIPT-1-5	14-11-1168-54	11/12/14 16:09	4	Solid
DIPT-1-10	14-11-1168-55	11/12/14 16:10	4	Solid
DIPT-1-15	14-11-1168-56	11/12/14 16:15	4	Solid
DUP-3	14-11-1168-57	11/12/14 00:00	4	Solid

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3510/SG 2
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**14-11-1168-41-D**	**11/12/14 00:00**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 16:03**	**141117B24**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	2500	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-286-47**	**N/A**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 14:09**	**141117B24**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	2500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3510/SG 2
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**14-11-1168-41-D**	**11/12/14 00:00**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 16:03**	**141117B23**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	500	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-296-278**	**N/A**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 14:09**	**141117B23**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-0	**14-11-1168-1-A**	**11/12/14 09:16**	**Solid**	**GC 48**	**11/18/14**	**11/19/14 23:39**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	97	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-2.5	**14-11-1168-2-A**	**11/12/14 09:19**	**Solid**	**GC 48**	**11/18/14**	**11/19/14 23:54**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	77	25	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	108	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-5	**14-11-1168-3-A**	**11/12/14 09:27**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 00:10**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-7.5	**14-11-1168-4-A**	**11/12/14 09:30**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 00:26**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	33	25	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	113	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-10	**14-11-1168-5-A**	**11/12/14 09:34**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 00:42**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-12.5	**14-11-1168-6-A**	**11/12/14 09:37**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 00:59**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-15	**14-11-1168-7-A**	**11/12/14 09:42**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 01:14**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-0	**14-11-1168-8-A**	**11/12/14 08:08**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 10:53**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	700	25	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	110	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-2.5	**14-11-1168-9-A**	**11/12/14 08:14**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 01:46**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-5	**14-11-1168-10-A**	**11/12/14 08:22**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 02:02**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-7.5	**14-11-1168-11-A**	**11/12/14 08:27**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 02:50**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-10	**14-11-1168-12-A**	**11/12/14 08:32**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 03:06**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	36	25	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-12.5	**14-11-1168-13-A**	**11/12/14 08:35**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 03:22**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-15	**14-11-1168-14-A**	**11/12/14 08:39**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 03:38**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-0	**14-11-1168-15-A**	**11/12/14 08:43**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 03:54**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	1500	250	10.0	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	81	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-2.5	**14-11-1168-16-A**	**11/12/14 08:47**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 04:10**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	85	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-5	**14-11-1168-17-A**	**11/12/14 08:52**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 04:26**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	89	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-7.5	**14-11-1168-18-A**	**11/12/14 09:00**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 04:42**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	110	25	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	122	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-10	**14-11-1168-19-A**	**11/12/14 09:03**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 04:57**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-12.5	**14-11-1168-20-A**	**11/12/14 09:07**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 05:13**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-15	**14-11-1168-21-A**	**11/12/14 09:11**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 07:53**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-1	**14-11-1168-22-A**	**11/12/14 00:00**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 08:09**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-2	**14-11-1168-23-A**	**11/12/14 00:00**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 08:25**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-420-1135**	**N/A**	**Solid**	**GC 48**	**11/18/14**	**11/19/14 21:46**	**141118L10**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-420-1136**	**N/A**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 06:01**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-0	**14-11-1168-1-A**	**11/12/14 09:16**	**Solid**	**GC 48**	**11/18/14**	**11/19/14 23:39**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	97	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-2.5	**14-11-1168-2-A**	**11/12/14 09:19**	**Solid**	**GC 48**	**11/18/14**	**11/19/14 23:54**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	33	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	109	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-5	**14-11-1168-3-A**	**11/12/14 09:27**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 00:10**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-7.5	**14-11-1168-4-A**	**11/12/14 09:30**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 00:26**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	8.7	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	113	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-10	**14-11-1168-5-A**	**11/12/14 09:34**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 00:42**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	101	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-12.5	**14-11-1168-6-A**	**11/12/14 09:37**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 00:59**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-15	**14-11-1168-7-A**	**11/12/14 09:42**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 01:14**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	5.9	4.9	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-0	**14-11-1168-8-A**	**11/12/14 08:08**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 10:53**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	120	5.0	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	110	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-2.5	**14-11-1168-9-A**	**11/12/14 08:14**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 01:46**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-5	**14-11-1168-10-A**	**11/12/14 08:22**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 02:02**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-7.5	**14-11-1168-11-A**	**11/12/14 08:27**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 02:50**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	101	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-10	**14-11-1168-12-A**	**11/12/14 08:32**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 03:06**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	9.1	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-12.5	**14-11-1168-13-A**	**11/12/14 08:35**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 03:22**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-15	**14-11-1168-14-A**	**11/12/14 08:39**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 03:38**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	5.1	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-0	**14-11-1168-15-A**	**11/12/14 08:43**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 11:09**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	1300	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-2.5	**14-11-1168-16-A**	**11/12/14 08:47**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 04:10**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	7.3	4.9	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	86	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-5	**14-11-1168-17-A**	**11/12/14 08:52**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 04:26**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	90	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-7.5	**14-11-1168-18-A**	**11/12/14 09:00**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 04:42**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	60	4.9	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	125	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-10	**14-11-1168-19-A**	**11/12/14 09:03**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 04:57**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-12.5	**14-11-1168-20-A**	**11/12/14 09:07**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 05:13**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-15	**14-11-1168-21-A**	**11/12/14 09:11**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 07:53**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	5.7	5.0	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	101	61-145	

DUP-1	**14-11-1168-22-A**	**11/12/14 00:00**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 08:09**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	95	61-145	

DUP-2	**14-11-1168-23-A**	**11/12/14 00:00**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 08:25**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	95	61-145	

Method Blank	**099-15-422-1492**	**N/A**	**Solid**	**GC 48**	**11/18/14**	**11/19/14 21:46**	**141118L07**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

Method Blank	**099-15-422-1493**	**N/A**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 06:01**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**14-11-1168-41-C**	**11/12/14 00:00**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 20:22**	**141119L036**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	75	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-704-926**	**N/A**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 13:18**	**141119L036**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	76	38-134	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-0	**14-11-1168-1-C**	**11/12/14 09:16**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 13:12**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	105	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-2.5	**14-11-1168-2-C**	**11/12/14 09:19**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 13:46**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-5	**14-11-1168-3-C**	**11/12/14 09:27**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 14:20**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	74	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-7.5	**14-11-1168-4-C**	**11/12/14 09:30**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 14:54**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-10	**14-11-1168-5-C**	**11/12/14 09:34**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 15:29**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	102	60-126	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-12.5	**14-11-1168-6-C**	**11/12/14 09:37**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 16:02**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.29	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-6-15	**14-11-1168-7-C**	**11/12/14 09:42**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 16:35**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-0	**14-11-1168-8-C**	**11/12/14 08:08**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 17:10**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	102	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-2.5	**14-11-1168-9-C**	**11/12/14 08:14**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 17:44**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	105	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-5	**14-11-1168-10-C**	**11/12/14 08:22**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 18:18**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	85	60-126	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-7.5	**14-11-1168-11-C**	**11/12/14 08:27**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 19:25**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-10	**14-11-1168-12-C**	**11/12/14 08:32**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 19:59**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	103	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-12.5	**14-11-1168-13-C**	**11/12/14 08:35**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 20:33**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-7-15	**14-11-1168-14-C**	**11/12/14 08:39**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 21:07**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-0	**14-11-1168-15-C**	**11/12/14 08:43**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 21:40**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.31	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	79	60-126	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-2.5	**14-11-1168-16-C**	**11/12/14 08:47**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 22:14**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-5	**14-11-1168-17-C**	**11/12/14 08:52**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 22:48**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.29	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	80	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-7.5	**14-11-1168-18-C**	**11/12/14 09:00**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 23:21**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-10	**14-11-1168-19-C**	**11/12/14 09:03**	**Solid**	**GC 24**	**11/14/14**	**11/18/14 23:55**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-12.5	**14-11-1168-20-C**	**11/12/14 09:07**	**Solid**	**GC 24**	**11/14/14**	**11/19/14 00:29**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	60-126	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQSH-10-15	**14-11-1168-21-C**	**11/12/14 09:11**	**Solid**	**GC 24**	**11/14/14**	**11/19/14 03:52**	**141118L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-1	**14-11-1168-22-C**	**11/12/14 00:00**	**Solid**	**GC 24**	**11/14/14**	**11/19/14 04:25**	**141118L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	BV,ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-2	**14-11-1168-23-C**	**11/12/14 00:00**	**Solid**	**GC 24**	**11/14/14**	**11/19/14 04:59**	**141118L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.31	1.00	BV,ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-285-5365**	**N/A**	**Solid**	**GC 24**	**11/18/14**	**11/18/14 12:05**	**141118L029**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-285-5366**	**N/A**	**Solid**	**GC 24**	**11/18/14**	**11/19/14 02:44**	**141118L033**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-126	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-3-0	**14-11-1168-24-A**	**11/12/14 10:39**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 22:57**	**141122L07**

Comment(s): - The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	25	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	93	27-120	
2-Fluorophenol	81	25-120	
Nitrobenzene-d5	83	33-123	
p-Terphenyl-d14	105	27-159	
Phenol-d6	76	26-122	
2,4,6-Tribromophenol	94	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-3-5	**14-11-1168-25-A**	**11/12/14 12:15**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 14:33**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	79	27-120	
2-Fluorophenol	86	25-120	
Nitrobenzene-d5	82	33-123	
p-Terphenyl-d14	92	27-159	
Phenol-d6	83	26-122	
2,4,6-Tribromophenol	100	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-3-10	**14-11-1168-26-A**	**11/12/14 12:25**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 14:51**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	69	27-120	
2-Fluorophenol	74	25-120	
Nitrobenzene-d5	69	33-123	
p-Terphenyl-d14	82	27-159	
Phenol-d6	69	26-122	
2,4,6-Tribromophenol	91	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-3-15	**14-11-1168-27-A**	**11/12/14 12:28**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 15:09**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	67	27-120	
2-Fluorophenol	79	25-120	
Nitrobenzene-d5	73	33-123	
p-Terphenyl-d14	83	27-159	
Phenol-d6	74	26-122	
2,4,6-Tribromophenol	88	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-5-0	**14-11-1168-28-A**	**11/12/14 11:34**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 23:15**	**141122L07**

Comment(s): - The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	12	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	98	27-120	
2-Fluorophenol	90	25-120	
Nitrobenzene-d5	85	33-123	
p-Terphenyl-d14	110	27-159	
Phenol-d6	87	26-122	
2,4,6-Tribromophenol	112	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-5-5	**14-11-1168-29-A**	**11/12/14 11:44**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 17:52**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	77	27-120	
2-Fluorophenol	83	25-120	
Nitrobenzene-d5	74	33-123	
p-Terphenyl-d14	101	27-159	
Phenol-d6	80	26-122	
2,4,6-Tribromophenol	100	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-5-10	**14-11-1168-30-A**	**11/12/14 11:48**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 15:27**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	60	27-120	
2-Fluorophenol	67	25-120	
Nitrobenzene-d5	60	33-123	
p-Terphenyl-d14	83	27-159	
Phenol-d6	64	26-122	
2,4,6-Tribromophenol	84	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-5-15	**14-11-1168-31-A**	**11/12/14 11:52**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 18:10**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	64	27-120	
2-Fluorophenol	59	25-120	
Nitrobenzene-d5	56	33-123	
p-Terphenyl-d14	82	27-159	
Phenol-d6	58	26-122	
2,4,6-Tribromophenol	84	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-2-0	**14-11-1168-32-A**	**11/12/14 12:47**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 18:28**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	76	27-120	
2-Fluorophenol	73	25-120	
Nitrobenzene-d5	67	33-123	
p-Terphenyl-d14	92	27-159	
Phenol-d6	76	26-122	
2,4,6-Tribromophenol	97	18-138	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-2-5	**14-11-1168-33-A**	**11/12/14 12:53**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 18:46**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	73	27-120	
2-Fluorophenol	77	25-120	
Nitrobenzene-d5	69	33-123	
p-Terphenyl-d14	96	27-159	
Phenol-d6	75	26-122	
2,4,6-Tribromophenol	102	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-2-10	**14-11-1168-34-A**	**11/12/14 13:00**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 19:04**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	72	27-120	
2-Fluorophenol	76	25-120	
Nitrobenzene-d5	69	33-123	
p-Terphenyl-d14	83	27-159	
Phenol-d6	74	26-122	
2,4,6-Tribromophenol	90	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-2-15	**14-11-1168-35-A**	**11/12/14 13:07**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 15:45**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	70	27-120	
2-Fluorophenol	73	25-120	
Nitrobenzene-d5	66	33-123	
p-Terphenyl-d14	85	27-159	
Phenol-d6	71	26-122	
2,4,6-Tribromophenol	96	18-138	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-8-0	**14-11-1168-36-A**	**11/12/14 13:58**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 19:22**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	71	27-120	
2-Fluorophenol	73	25-120	
Nitrobenzene-d5	68	33-123	
p-Terphenyl-d14	82	27-159	
Phenol-d6	71	26-122	
2,4,6-Tribromophenol	94	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-8-5	**14-11-1168-37-A**	**11/12/14 14:03**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 19:40**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	63	27-120	
2-Fluorophenol	67	25-120	
Nitrobenzene-d5	60	33-123	
p-Terphenyl-d14	89	27-159	
Phenol-d6	65	26-122	
2,4,6-Tribromophenol	102	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-8-10	**14-11-1168-38-A**	**11/12/14 14:05**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 19:58**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	52	27-120	
2-Fluorophenol	54	25-120	
Nitrobenzene-d5	49	33-123	
p-Terphenyl-d14	84	27-159	
Phenol-d6	52	26-122	
2,4,6-Tribromophenol	84	18-138	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-8-15	**14-11-1168-39-A**	**11/12/14 14:11**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 16:03**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	53	27-120	
2-Fluorophenol	42	25-120	
Nitrobenzene-d5	50	33-123	
p-Terphenyl-d14	69	27-159	
Phenol-d6	49	26-122	
2,4,6-Tribromophenol	59	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-4-0	**14-11-1168-40-A**	**11/12/14 14:25**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 20:16**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	77	27-120	
2-Fluorophenol	84	25-120	
Nitrobenzene-d5	77	33-123	
p-Terphenyl-d14	103	27-159	
Phenol-d6	84	26-122	
2,4,6-Tribromophenol	108	18-138	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Mt. Shasta / 202311.0000 Page 8 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-4-5	**14-11-1168-42-A**	**11/12/14 14:32**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 22:39**	**141122L07**

Comment(s): - The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	13	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	97	27-120	
2-Fluorophenol	83	25-120	
Nitrobenzene-d5	77	33-123	
p-Terphenyl-d14	111	27-159	
Phenol-d6	81	26-122	
2,4,6-Tribromophenol	110	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-4-10	**14-11-1168-43-A**	**11/12/14 14:34**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 16:20**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	65	27-120	
2-Fluorophenol	70	25-120	
Nitrobenzene-d5	64	33-123	
p-Terphenyl-d14	87	27-159	
Phenol-d6	66	26-122	
2,4,6-Tribromophenol	84	18-138	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-4-15	**14-11-1168-44-A**	**11/12/14 14:42**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 16:38**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	76	27-120	
2-Fluorophenol	69	25-120	
Nitrobenzene-d5	69	33-123	
p-Terphenyl-d14	86	27-159	
Phenol-d6	72	26-122	
2,4,6-Tribromophenol	82	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-7-0	**14-11-1168-45-A**	**11/12/14 14:56**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 20:33**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	80	27-120	
2-Fluorophenol	79	25-120	
Nitrobenzene-d5	74	33-123	
p-Terphenyl-d14	103	27-159	
Phenol-d6	80	26-122	
2,4,6-Tribromophenol	104	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-7-5	**14-11-1168-46-A**	**11/12/14 15:02**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 20:51**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	78	27-120	
2-Fluorophenol	78	25-120	
Nitrobenzene-d5	73	33-123	
p-Terphenyl-d14	101	27-159	
Phenol-d6	76	26-122	
2,4,6-Tribromophenol	102	18-138	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-7-10	**14-11-1168-47-A**	**11/12/14 15:04**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 21:09**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	60	27-120	
2-Fluorophenol	69	25-120	
Nitrobenzene-d5	62	33-123	
p-Terphenyl-d14	98	27-159	
Phenol-d6	64	26-122	
2,4,6-Tribromophenol	97	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-7-15	**14-11-1168-48-A**	**11/12/14 15:16**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 14:15**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	61	27-120	
2-Fluorophenol	61	25-120	
Nitrobenzene-d5	56	33-123	
p-Terphenyl-d14	94	27-159	
Phenol-d6	58	26-122	
2,4,6-Tribromophenol	96	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-6-0	**14-11-1168-49-A**	**11/12/14 15:23**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 21:27**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	86	27-120	
2-Fluorophenol	84	25-120	
Nitrobenzene-d5	82	33-123	
p-Terphenyl-d14	98	27-159	
Phenol-d6	80	26-122	
2,4,6-Tribromophenol	102	18-138	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-6-5	**14-11-1168-50-A**	**11/12/14 15:29**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 21:45**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	68	27-120	
2-Fluorophenol	60	25-120	
Nitrobenzene-d5	55	33-123	
p-Terphenyl-d14	99	27-159	
Phenol-d6	59	26-122	
2,4,6-Tribromophenol	100	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-6-10	**14-11-1168-51-A**	**11/12/14 15:38**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/26/14 00:45**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	78	27-120	
2-Fluorophenol	78	25-120	
Nitrobenzene-d5	72	33-123	
p-Terphenyl-d14	91	27-159	
Phenol-d6	72	26-122	
2,4,6-Tribromophenol	95	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-6-15	**14-11-1168-52-A**	**11/12/14 15:40**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 16:56**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	44	27-120	
2-Fluorophenol	42	25-120	
Nitrobenzene-d5	39	33-123	
p-Terphenyl-d14	55	27-159	
Phenol-d6	39	26-122	
2,4,6-Tribromophenol	59	18-138	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-1-0	**14-11-1168-53-A**	**11/12/14 16:08**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 22:03**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	76	27-120	
2-Fluorophenol	79	25-120	
Nitrobenzene-d5	74	33-123	
p-Terphenyl-d14	101	27-159	
Phenol-d6	77	26-122	
2,4,6-Tribromophenol	103	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-1-5	**14-11-1168-54-A**	**11/12/14 16:09**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 23:51**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	66	27-120	
2-Fluorophenol	42	25-120	
Nitrobenzene-d5	42	33-123	
p-Terphenyl-d14	83	27-159	
Phenol-d6	42	26-122	
2,4,6-Tribromophenol	89	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-1-10	**14-11-1168-55-A**	**11/12/14 16:10**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/26/14 00:09**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	65	27-120	
2-Fluorophenol	60	25-120	
Nitrobenzene-d5	56	33-123	
p-Terphenyl-d14	89	27-159	
Phenol-d6	56	26-122	
2,4,6-Tribromophenol	88	18-138	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-1-15	**14-11-1168-56-A**	**11/12/14 16:15**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/26/14 00:27**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	66	27-120	
2-Fluorophenol	50	25-120	
Nitrobenzene-d5	55	33-123	
p-Terphenyl-d14	94	27-159	
Phenol-d6	52	26-122	
2,4,6-Tribromophenol	70	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-3	**14-11-1168-57-A**	**11/12/14 00:00**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 22:21**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	54	27-120	
2-Fluorophenol	51	25-120	
Nitrobenzene-d5	47	33-123	
p-Terphenyl-d14	61	27-159	
Phenol-d6	48	26-122	
2,4,6-Tribromophenol	63	18-138	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-3121**	**N/A**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 10:22**	**141122L07**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	80	27-120	
2-Fluorophenol	76	25-120	
Nitrobenzene-d5	78	33-123	
p-Terphenyl-d14	95	27-159	
Phenol-d6	75	26-122	
2,4,6-Tribromophenol	88	18-138	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/14/14
Work Order: 14-11-1168
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-3122**	**N/A**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 11:49**	**141122L08**

Parameter	Result	RL	DF	Qualifiers
Pentachlorophenol	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	83	27-120	
2-Fluorophenol	83	25-120	
Nitrobenzene-d5	77	33-123	
p-Terphenyl-d14	106	27-159	
Phenol-d6	75	26-122	
2,4,6-Tribromophenol	116	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EQSH-6-12.5	**Sample**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 00:59**	**141118S10**
EQSH-6-12.5	**Matrix Spike**	**Solid**	**GC 48**	**11/18/14**	**11/19/14 23:06**	**141118S10**
EQSH-6-12.5	**Matrix Spike Duplicate**	**Solid**	**GC 48**	**11/18/14**	**11/19/14 23:22**	**141118S10**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	ND	400.0	424.7	106	455.8	114	64-130	7	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
DUP-2	**Sample**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 08:25**	**141118S11**
DUP-2	**Matrix Spike**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 07:21**	**141118S11**
DUP-2	**Matrix Spike Duplicate**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 07:37**	**141118S11**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	ND	400.0	438.8	110	469.3	117	64-130	7	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.	Date Received:	11/14/14
2470 Impala Drive	Work Order:	14-11-1168
Carlsbad, CA 92010-7226	Preparation:	EPA 3550/SG 2
	Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000		Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EQSH-6-12.5	**Sample**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 00:59**	**141118S07**
EQSH-6-12.5	**Matrix Spike**	**Solid**	**GC 48**	**11/18/14**	**11/19/14 22:34**	**141118S07**
EQSH-6-12.5	**Matrix Spike Duplicate**	**Solid**	**GC 48**	**11/18/14**	**11/19/14 22:50**	**141118S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	358.3	90	364.8	91	64-130	2	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.	Date Received:	11/14/14
2470 Impala Drive	Work Order:	14-11-1168
Carlsbad, CA 92010-7226	Preparation:	EPA 3550/SG 2
	Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000		Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
DUP-2	**Sample**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 08:25**	**141118S08**
DUP-2	**Matrix Spike**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 06:49**	**141118S08**
DUP-2	**Matrix Spike Duplicate**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 07:05**	**141118S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	365.5	91	332.4	83	64-130	9	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-11-1355-2	**Sample**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 14:25**	**141119S032**
14-11-1355-2	**Matrix Spike**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 14:58**	**141119S032**
14-11-1355-2	**Matrix Spike Duplicate**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 15:56**	**141119S032**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1988	99	1928	96	68-122	3	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: Mt. Shasta / 202311.0000			Page 6 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
DIPT-3-5	**Sample**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 14:33**	**141122S07**
DIPT-3-5	**Matrix Spike**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 13:03**	**141122S07**
DIPT-3-5	**Matrix Spike Duplicate**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 13:21**	**141122S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Pentachlorophenol	ND	10.00	7.901	79	7.681	77	10-124	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: Mt. Shasta / 202311.0000			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
DIPT-7-15	**Sample**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 14:15**	**141122S08**
DIPT-7-15	**Matrix Spike**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 13:39**	**141122S08**
DIPT-7-15	**Matrix Spike Duplicate**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 13:57**	**141122S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Pentachlorophenol	ND	10.00	5.372	54	5.413	54	10-124	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 3510/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 1 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-286-47	**LCS**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 14:58**	**141117B24**
099-15-286-47	**LCSD**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 15:14**	**141117B24**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	20000	21280	106	22970	115	75-117	8	0-13	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.	Date Received: 11/14/14
2470 Impala Drive	Work Order: 14-11-1168
Carlsbad, CA 92010-7226	Preparation: EPA 3510/SG 2
	Method: EPA 8015B (M)
Project: Mt. Shasta / 202311.0000	Page 2 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-296-278	**LCS**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 14:25**	**141117B23**
099-15-296-278	**LCSD**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 14:41**	**141117B23**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	20000	21080	105	20520	103	75-117	3	0-13	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 3 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-420-1135	**LCS**	**Solid**	**GC 48**	**11/18/14**	**11/19/14 22:18**	**141118L10**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Motor Oil	400.0	463.1	116	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 4 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-420-1136	**LCS**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 06:33**	**141118L11**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Motor Oil	400.0	402.4	101	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 5 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-422-1492	**LCS**	**Solid**	**GC 48**	**11/18/14**	**11/19/14 22:02**	**141118L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	351.4	88	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 6 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-422-1493	**LCS**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 06:17**	**141118L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	351.0	88	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 7 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-704-926	**LCS**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 13:51**	**141119L036**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Gasoline	2000	1998	100	78-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.	Date Received: 11/14/14
2470 Impala Drive	Work Order: 14-11-1168
Carlsbad, CA 92010-7226	Preparation: EPA 5035
	Method: EPA 8015B (M)
Project: Mt. Shasta / 202311.0000	Page 8 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-285-5365	**LCS**	**Solid**	**GC 24**	**11/18/14**	**11/18/14 10:57**	**141118L029**
099-12-285-5365	**LCSD**	**Solid**	**GC 24**	**11/18/14**	**11/18/14 11:31**	**141118L029**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2.000	2.051	103	2.052	103	55-139	0	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.	Date Received: 11/14/14
2470 Impala Drive	Work Order: 14-11-1168
Carlsbad, CA 92010-7226	Preparation: EPA 5035
	Method: EPA 8015B (M)
Project: Mt. Shasta / 202311.0000	Page 9 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-285-5366	**LCS**	**Solid**	**GC 24**	**11/18/14**	**11/19/14 01:36**	**141118L033**
099-12-285-5366	**LCSD**	**Solid**	**GC 24**	**11/18/14**	**11/19/14 02:10**	**141118L033**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2.000	1.948	97	1.952	98	55-139	0	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: Mt. Shasta / 202311.0000			Page 10 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-549-3121	**LCS**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 11:27**	**141122L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Pentachlorophenol	10.00	7.981	80	23-131	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/14/14
2470 Impala Drive		Work Order:	14-11-1168
Carlsbad, CA 92010-7226		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: Mt. Shasta / 202311.0000			Page 11 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-549-3122	**LCS**	**Solid**	**GC/MS CCC**	**11/22/14**	**11/25/14 12:07**	**141122L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Pentachlorophenol	10.00	9.014	90	23-131	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-11-1168 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8015B (M)	EPA 5035	715	GC 24	2
EPA 8015B (M)	EPA 5030C	797	GC 25	2
EPA 8015B (M)	EPA 3550/SG 2	669	GC 48	1
EPA 8015B (M)	EPA 3510/SG 2	682	GC 48	1
EPA 8270C	EPA 3545	608	GC/MS CCC	1
EPA 8270C	EPA 3545	923	GC/MS CCC	1

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Glossary of Terms and Qualifiers

Work Order: 14-11-1168 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Mobile Geochemistry Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

SOIL / WATER Chain of Custody

DATE: 11/12/14
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Lab Client and Project Information

Lab Client/Consultant: TRC
Lab Client Project Manager: Gary Gunderson
Lab Client Address: 10680 Whiterock Rd Ste. 100
Lab Client City, State, Zip: Rancho Cordova, CA 95670
Phone Number: 916.366.0632

Project Name / #: Mt. Shasta 202311.0000
Project Location: Mt Shasta
Report E-Mail(s): ggunderson@trcsolutions.com
msellwood@trcsolutions.com

Sample Receipt (Lab Use Only)

Date Rec'd: Control #:
H&P Project #
Lab Work Order # **14-11-1168**
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below
Custody Seal Intact: ☐ Yes ☐ No Temp:
Outside Lab:
Receipt Notes/Tracking #:
Lab PM Initials:

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:
☐ CA Geotracker Global ID:

Turnaround Time

☒ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☐ Mobile Lab
☐ 48-Hr Rush ☐ Other:

Sampler Information

Sampler(s): M. Sellwood
Signature: Mike Sellwood
Date: 11/12/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams
* TPH-d silica gel cleanup

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH-d, TPH-MO TPH-g						
1	EQSH-6-0		11/12/14	0916	soil	Encore (3)/Jar	4	None							X						
2	EQSH-6-2.5			0919																	
3	EQSH-6-5			0927																	
4	EQSH-6-7.5			0930																	
5	EQSH-6-10			0934																	
6	EQSH-6-12.5			0937																	
7	EQSH-6-15			0942																	
8	EQSH-7-0			0808																	
9	EQSH-7-2.5			0814																	
10	EQSH-7-5			0822																	

Approved/Relinquished by: Mike Sellwood	Company: TRC	Date: 11/13/14	Time: 0900	Received by:	Company:	Date:	Time:
Approved/Relinquished by: FedEx	Company:	Date: 11/14/14	Time: 0735	Received by: Wdeath	Company: ECI	Date: 11/14/14	Time: 0735
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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P 760.804.9678 F 760.804.9159

SOIL / WATER Chain of Custody

DATE: 11/12/14

Lab Client and Project Information

Lab Client/Consultant: TRC	Project Name / #: Mt. Shasta
Lab Client Project Manager:	Project Location: Mt. Shasta
Lab Client Address:	Report E-Mail(s):
Lab Client City, State, Zip:	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order #	1168
Sample Intact: ☐ Yes ☐ No ☒ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☒ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☐ Mobile Lab
☐ 48-Hr Rush ☐ Other:_____

Sampler Information

Sampler(s): M. Sellwood
Signature: Mike Sellwood
Date: 11/12/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams
* TPH-d silica gel cleanup

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH-d, TPH-MD, TPH-g						
11	EQSH-7-7.5		11/12/14	0827	Soil	Encore (3)/Jar	4	None							X						
12	EQSH-7-10			0832																	
13	EQSH-7-12.5			0835																	
14	EQSH-7-15			0839																	
15	EQSH-10-0			0843																	
16	EQSH-10-2.5			0847																	
17	EQSH-10-5			0852																	
18	EQSH-10-7.5			0900																	
19	EQSH-10-10			0903																	
20	EQSH-10-12.5			0907																	

Approved/Relinquished by: Mike Sellwood	Company: TRC	Date: 11/13/14	Time: 0900	Received by:	Company:	Date:	Time:
Approved/Relinquished by: FedEx	Company:	Date: 11/14/14	Time: 0735	Received by: Wchatu	Company: CL	Date: 11/14/14	Time: 0735
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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SOIL / WATER Chain of Custody

DATE: 11/12/14
Page 3 of 6

Lab Client and Project Information

Lab Client/Consultant: TRC	Project Name / #: Mt. Shasta
Lab Client Project Manager:	Project Location: Mt Shasta
Lab Client Address:	Report E-Mail(s):
Lab Client City, State, Zip:	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order #	1168
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	Lab PM Initials:

Reporting Requirements	Turnaround Time	Sampler Information
☒ Standard Report ☐ Level III ☐ Level IV	☒ 5-7 day Stnd ☐ 24-Hr Rush	Sampler(s): M. Sellwood
☐ Excel EDD ☐ Other EDD:	☐ 3-day Rush ☐ Mobile Lab	Signature: Mike Sellwood
☐ CA Geotracker Global ID:	☐ 48-Hr Rush ☐ Other:	Date: 11/12/14

Additional Instructions to Laboratory:
☐ Check if Project Analyte List is Attached

* Report to Louise Adams
* TPH-d silica gel cleanup

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH-d, TPH-mD TPH-g	PCP by 515.1					
21	EQSH-10-15		11/12/14	0911	Soil	Encore (3)/Jar	4	None							X						
22	DUP-1		↓	—	↓	↓	↓	↓							↓						
23	DUP-2		↓	—	↓	↓	↓	↓							↓						
24	DIPT-3-0		↓	1039	↓	Jar	1	↓							X	X					
25	DIPT-3-5		↓	1215	↓	↓	1	↓							↓	↓					
26	DIPT-3-10		↓	1225	↓	↓	1	↓							↓	↓					
27	DIPT-3-15		↓	1228	↓	↓	1	↓							↓	↓					
28	DIPT-5-0		↓	1134	↓	↓	1	↓							↓	↓					
29	DIPT-5-5		↓	1144	↓	↓	1	↓							↓	↓					
30	DIPT-5-10		↓	1148	↓	↓	1	↓							↓	↓					

Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Mike Sellwood	TRC	11/13/14	0900				
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Fedex		11/14/14	0935	Wdyatt	ECI	11/14/14	0935
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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SOIL / WATER Chain of Custody

DATE: 11/12/14
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Lab Client and Project Information

Lab Client/Consultant: TRC	Project Name / #: Mt Shasta
Lab Client Project Manager:	Project Location: Mt Shasta
Lab Client Address:	Report E-Mail(s):
Lab Client City, State, Zip:	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order #	1163
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☒ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☐ Mobile Lab
☐ 48-Hr Rush ☐ Other:____

Sampler Information

Sampler(s): M. Sellwood
Signature: Mike Sellwood
Date: 11/12/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	PCP by 515.1						
31	DIPT-5-15		11/12/14	1152	Soil	Jar	1	None							X						
32	DIPT-2-0			1247																	
33	DIPT-2-5			1253																	
34	DIPT-2-10			1300																	
35	DIPT-2-15			1307																	
36	DIPT-8-0			1358																	
37	DIPT-8-5			1403																	
38	DIPT-8-10			1405																	
39	DIPT-8-15			1411																	
40	DIPT-4-0			1425																	

Approved/Relinquished by: Mike Sellwood	Company: TRC	Date: 11/13/14	Time: 0900	Received by:	Company:	Date:	Time:
Approved/Relinquished by: FEDEX	Company:	Date: 11/14/14	Time: 0935	Received by: Wchatn	Company: ECL	Date: 11/14/14	Time: 0935
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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SOIL / WATER Chain of Custody

DATE: 11/12/14
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Lab Client and Project Information

Lab Client/Consultant: TRC	Project Name / #: Mt. Shasta
Lab Client Project Manager:	Project Location: Mt. Shasta
Lab Client Address:	Report E-Mail(s):
Lab Client City, State, Zip:	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order #	1168
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements	Turnaround Time	Sampler Information
☒ Standard Report ☐ Level III ☐ Level IV	☒ 5-7 day Stnd ☐ 24-Hr Rush	Sampler(s): M. Sellwood
☐ Excel EDD ☐ Other EDD:	☐ 3-day Rush ☐ Mobile Lab	Signature: Mike Sellwood
☐ CA Geotracker Global ID:	☐ 48-Hr Rush ☐ Other:	Date: 11/12/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH-g/TPH-md/TPH-g	PCP by 515.1					
41	EB-2		11/12/14	—	WATER	VOAs/Amber	4	HCl/None							X						
42	DIPT-4-5		↓	1432	SOIL	Jar	1	None								X					
43	DIPT-4-10			1434	↓	↓	↓	↓								↓					
44	DIPT-4-15			1442																	
45	DIPT-7-0			1456																	
46	DIPT-7-5			1502																	
47	DIPT-7-10			1504																	
48	DIPT-7-15			1516																	
49	DIPT-6-0			1523																	
50	DIPT-6-5			1529																	

Approved/Relinquished by: Mike Sellwood	Company: TRC	Date: 11/13/14	Time: 0900	Received by:	Company:	Date:	Time:
Approved/Relinquished by: FedEx	Company:	Date: 11/14/14	Time: 0735	Received by: Wbat	Company: EC	Date: 11/14/14	Time: 0735
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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SOIL / WATER Chain of Custody

DATE: 11/12/14
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Lab Client and Project Information

Lab Client/Consultant: TRC	Project Name / #: Mt. Shasta
Lab Client Project Manager:	Project Location: Mt. Shasta
Lab Client Address:	Report E-Mail(s):
Lab Client City, State, Zip:	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order #	1168
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☒ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☐ Mobile Lab
☐ 48-Hr Rush ☐ Other:____

Sampler Information

Sampler(s): M. Sellard
Signature: Mike Sellard
Date: 11/12/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

~~X~~ Report to Louise Adams

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	PCP by 515.1						
51	DIPT-6-10		11/12/14	1538	SOIL	Jar	1	NONE							X						
52	DIPT-6-15			1540																	
53	DIPT-1-0			1608																	
54	DIPT-1-5			1609																	
55	DIPT-1-10			1610																	
56	DIPT-1-15			1615																	
57	DUP-3			—																	

Approved/Relinquished by: Mike Sellard	Company: TRC	Date: 11/13/14	Time: 0900	Received by:	Company:	Date:	Time:
Approved/Relinquished by: FedEx	Company:	Date: 11/14/14	Time: 0735	Received by: Wchata	Company: EGI	Date: 11/14/14	Time: 0735
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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WORK ORDER #: 14-11-1 1 6 8

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: TRC DATE: 11/14/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C - 0.2 °C (CF) = 2.9 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** AZ6

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Checked by:** AZ6

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** AZ6

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☑EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☑500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** AZ6

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** JS

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** JS

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WORK ORDER NUMBER: 14-11-1271

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: H & P Mobile GeoChemistry, Inc.

Client Project Name: Mt. Shasta / 202311.0000

Attention: Louise Adams
2470 Impala Drive
Carlsbad, CA 92010-7226

Approved for release on 11/26/2014 by:
Ranjit Clarke
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-11-1271

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Work Order Narrative

Work Order: 14-11-1271 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/15/14. They were assigned to Work Order 14-11-1271.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client:	H & P Mobile GeoChemistry, Inc. 2470 Impala Drive Carlsbad, CA 92010-7226	Work Order:	14-11-1271
		Project Name:	Mt. Shasta / 202311.0000
		PO Number:	
		Date/Time Received:	11/15/14 09:00
		Number of Containers:	188
Attn:	Louise Adams		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
DIPT-1-GW	14-11-1271-1	11/13/14 12:55	9	Aqueous
EB-3	14-11-1271-2	11/13/14 00:00	9	Aqueous
TB-1	14-11-1271-3	11/13/14 00:00	2	Aqueous
BFTR-1-0	14-11-1271-4	11/13/14 15:11	1	Solid
BFTR-1-5	14-11-1271-5	11/13/14 15:14	1	Solid
BFTR-1-10	14-11-1271-6	11/13/14 15:18	1	Solid
BFTR-1-15	14-11-1271-7	11/13/14 15:25	1	Solid
BFTR-2-0	14-11-1271-8	11/13/14 14:47	1	Solid
BFTR-2-5	14-11-1271-9	11/13/14 14:50	1	Solid
BFTR-2-10	14-11-1271-10	11/13/14 14:54	1	Solid
BFTR-2-15	14-11-1271-11	11/13/14 15:00	1	Solid
BFTR-3-0	14-11-1271-12	11/13/14 14:09	1	Solid
BFTR-3-5	14-11-1271-13	11/13/14 14:11	1	Solid
BFTR-3-10	14-11-1271-14	11/13/14 14:13	1	Solid
BFTR-3-15	14-11-1271-15	11/13/14 14:19	1	Solid
BFTR-4-0	14-11-1271-16	11/13/14 14:25	1	Solid
BFTR-4-5	14-11-1271-17	11/13/14 14:34	1	Solid
BFTR-4-10	14-11-1271-18	11/13/14 14:36	1	Solid
BFTR-4-15	14-11-1271-19	11/13/14 14:41	1	Solid
NMDU-1-0	14-11-1271-20	11/13/14 09:28	4	Solid
NMDU-1-2.5	14-11-1271-21	11/13/14 09:33	4	Solid
NMDU-1-5	14-11-1271-22	11/13/14 09:36	4	Solid
NMDU-1-7.5	14-11-1271-23	11/13/14 09:40	4	Solid
NMDU-1-10	14-11-1271-24	11/13/14 09:44	4	Solid
NMDU-1-12.5	14-11-1271-25	11/13/14 09:48	4	Solid
NMDU-1-15	14-11-1271-26	11/13/14 09:52	4	Solid
NMDU-2-0	14-11-1271-27	11/13/14 10:30	4	Solid
NMDU-2-2.5	14-11-1271-28	11/13/14 10:34	4	Solid
NMDU-2-5	14-11-1271-29	11/13/14 10:37	4	Solid
NMDU-2-7.5	14-11-1271-30	11/13/14 10:41	4	Solid
NMDU-2-10	14-11-1271-31	11/13/14 10:45	4	Solid
NMDU-2-12.5	14-11-1271-32	11/13/14 10:50	4	Solid
NMDU-2-15	14-11-1271-33	11/13/14 10:54	4	Solid
NMDU-3-0	14-11-1271-34	11/13/14 11:05	4	Solid
NMDU-3-2.5	14-11-1271-35	11/13/14 11:08	4	Solid
NMDU-3-5	14-11-1271-36	11/13/14 11:10	4	Solid
NMDU-3-7.5	14-11-1271-37	11/13/14 11:12	4	Solid
NMDU-3-10	14-11-1271-38	11/13/14 11:15	4	Solid
NMDU-3-12.5	14-11-1271-39	11/13/14 11:17	4	Solid
NMDU-3-15	14-11-1271-40	11/13/14 11:20	4	Solid
NMDU-4-0	14-11-1271-41	11/13/14 11:39	4	Solid
NMDU-4-2.5	14-11-1271-42	11/13/14 11:46	4	Solid

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Sample Summary

Client:	H & P Mobile GeoChemistry, Inc. 2470 Impala Drive Carlsbad, CA 92010-7226	Work Order:	14-11-1271
		Project Name:	Mt. Shasta / 202311.0000
		PO Number:	
		Date/Time Received:	11/15/14 09:00
		Number of Containers:	188
Attn:	Louise Adams		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
NMDU-4-5	14-11-1271-43	11/13/14 11:49	4	Solid
NMDU-4-7.5	14-11-1271-44	11/13/14 11:51	4	Solid
NMDU-4-10	14-11-1271-45	11/13/14 11:54	4	Solid
NMDU-4-12.5	14-11-1271-46	11/13/14 11:58	4	Solid
NMDU-4-15	14-11-1271-47	11/13/14 12:01	4	Solid
NMDU-5-0	14-11-1271-48	11/13/14 09:59	4	Solid
NMDU-5-2.5	14-11-1271-49	11/13/14 10:03	4	Solid
NMDU-5-5	14-11-1271-50	11/13/14 10:07	4	Solid
NMDU-5-7.5	14-11-1271-51	11/13/14 10:11	4	Solid
NMDU-5-10	14-11-1271-52	11/13/14 10:15	4	Solid
NMDU-5-12.5	14-11-1271-53	11/13/14 10:18	4	Solid
NMDU-5-15	14-11-1271-54	11/13/14 10:23	4	Solid
DUP-4	14-11-1271-55	11/13/14 00:00	4	Solid
DUP-5	14-11-1271-56	11/13/14 00:00	4	Solid
DUP-6	14-11-1271-57	11/13/14 00:00	4	Solid

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3510/SG 2
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-1-GW	**14-11-1271-1-H**	**11/13/14 12:55**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 15:30**	**141117B24**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	2500	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	77	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-3	**14-11-1271-2-H**	**11/13/14 00:00**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 15:47**	**141117B24**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	2500	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-286-47**	**N/A**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 14:09**	**141117B24**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	2500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3510/SG 2
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-1-GW	**14-11-1271-1-H**	**11/13/14 12:55**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 15:30**	**141117B23**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	500	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	78	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-3	**14-11-1271-2-H**	**11/13/14 00:00**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 15:47**	**141117B23**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	500	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	83	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-296-278**	**N/A**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 14:09**	**141117B23**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-0	**14-11-1271-20-A**	**11/13/14 09:28**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 14:39**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	680	25	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	102	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-2.5	**14-11-1271-21-A**	**11/13/14 09:33**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 06:30**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	510	130	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-5	**14-11-1271-22-A**	**11/13/14 09:36**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 06:47**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-7.5	**14-11-1271-23-A**	**11/13/14 09:40**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 07:03**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	69	25	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-10	**14-11-1271-24-A**	**11/13/14 09:44**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 07:20**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	71	25	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	107	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-12.5	**14-11-1271-25-A**	**11/13/14 09:48**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 07:36**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	30	25	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-15	**14-11-1271-26-A**	**11/13/14 09:52**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 07:53**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	107	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-0	**14-11-1271-27-A**	**11/13/14 10:30**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 08:10**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-2.5	**14-11-1271-28-A**	**11/13/14 10:34**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 08:27**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	400	250	10.0	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	84	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-5	**14-11-1271-29-A**	**11/13/14 10:37**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 08:43**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	1000	620	25.0	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-7.5	**14-11-1271-30-A**	**11/13/14 10:41**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 09:34**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	470	250	10.0	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-10	**14-11-1271-31-A**	**11/13/14 10:45**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 09:51**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	610	250	10.0	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	114	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-12.5	**14-11-1271-32-A**	**11/13/14 10:50**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 10:07**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-15	**14-11-1271-33-A**	**11/13/14 10:54**	**Solid**	**GC 47**	**11/18/14**	**11/22/14 10:58**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	86	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-0	**14-11-1271-34-A**	**11/13/14 11:05**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 10:41**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	320	120	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	114	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-2.5	**14-11-1271-35-A**	**11/13/14 11:08**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 10:58**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	430	130	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-5	**14-11-1271-36-A**	**11/13/14 11:10**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 11:14**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	230	120	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-7.5	**14-11-1271-37-A**	**11/13/14 11:12**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 11:31**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	210	130	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-10	**14-11-1271-38-A**	**11/13/14 11:15**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 11:48**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	680	120	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-12.5	**14-11-1271-39-A**	**11/13/14 11:17**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 12:05**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	16	12	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-15	**14-11-1271-40-A**	**11/13/14 11:20**	**Solid**	**GC 48**	**11/18/14**	**11/21/14 23:00**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	107	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-0	**14-11-1271-41-A**	**11/13/14 11:39**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 12:08**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	500	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-2.5	**14-11-1271-42-A**	**11/13/14 11:46**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 12:24**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	400	50	2.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	61	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-5	**14-11-1271-43-A**	**11/13/14 11:49**	**Solid**	**GC 48**	**11/18/14**	**11/21/14 23:49**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	110	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	114	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-7.5	**14-11-1271-44-A**	**11/13/14 11:51**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 00:05**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	240	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-10	**14-11-1271-45-A**	**11/13/14 11:54**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 00:21**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	400	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-12.5	**14-11-1271-46-A**	**11/13/14 11:58**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 00:37**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	1600	250	10.0	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	122	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-15	**14-11-1271-47-A**	**11/13/14 12:01**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 00:53**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	27	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	109	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-0	**14-11-1271-48-A**	**11/13/14 09:59**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 01:09**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	960	250	10.0	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	66	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-2.5	**14-11-1271-49-A**	**11/13/14 10:03**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 13:12**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	1000	50	2.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	68	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-5	**14-11-1271-50-A**	**11/13/14 10:07**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 13:28**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	720	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-7.5	**14-11-1271-51-A**	**11/13/14 10:11**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 13:45**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	560	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	61	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-10	**14-11-1271-52-A**	**11/13/14 10:15**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 14:01**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	3400	130	5.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-12.5	**14-11-1271-53-A**	**11/13/14 10:18**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 14:17**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	690	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-15	**14-11-1271-54-A**	**11/13/14 10:23**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 03:18**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-4	**14-11-1271-55-A**	**11/13/14 00:00**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 14:33**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	750	25	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	77	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-420-1136**	**N/A**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 06:01**	**141118L11**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-420-1141**	**N/A**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 04:34**	**141118L12**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	90	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-0	**14-11-1271-20-A**	**11/13/14 09:28**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 14:39**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	190	4.9	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	102	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-2.5	**14-11-1271-21-A**	**11/13/14 09:33**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 06:30**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	180	25	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-5	**14-11-1271-22-A**	**11/13/14 09:36**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 06:47**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-7.5	**14-11-1271-23-A**	**11/13/14 09:40**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 07:03**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	24	5.0	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-10	**14-11-1271-24-A**	**11/13/14 09:44**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 07:20**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	31	4.9	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	107	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-12.5	**14-11-1271-25-A**	**11/13/14 09:48**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 07:36**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	13	5.0	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-15	**14-11-1271-26-A**	**11/13/14 09:52**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 07:53**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	107	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-0	**14-11-1271-27-A**	**11/13/14 10:30**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 08:10**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-2.5	**14-11-1271-28-A**	**11/13/14 10:34**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 15:13**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	210	5.0	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	109	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-5	**14-11-1271-29-A**	**11/13/14 10:37**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 08:43**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	160	120	25.0	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-7.5	**14-11-1271-30-A**	**11/13/14 10:41**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 09:34**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	51	50	10.0	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-10	**14-11-1271-31-A**	**11/13/14 10:45**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 09:51**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	69	49	10.0	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	114	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-12.5	**14-11-1271-32-A**	**11/13/14 10:50**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 10:07**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	106	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-15	**14-11-1271-33-A**	**11/13/14 10:54**	**Solid**	**GC 47**	**11/18/14**	**11/22/14 10:58**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	4.9	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	86	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-0	**14-11-1271-34-A**	**11/13/14 11:05**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 10:41**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	33	25	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	114	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-2.5	**14-11-1271-35-A**	**11/13/14 11:08**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 10:58**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	43	25	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-5	**14-11-1271-36-A**	**11/13/14 11:10**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 11:14**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	26	25	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-7.5	**14-11-1271-37-A**	**11/13/14 11:12**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 11:31**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	47	25	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-10	**14-11-1271-38-A**	**11/13/14 11:15**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 11:48**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	170	25	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-12.5	**14-11-1271-39-A**	**11/13/14 11:17**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 18:01**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	41	5.0	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	116	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-15	**14-11-1271-40-A**	**11/13/14 11:20**	**Solid**	**GC 48**	**11/18/14**	**11/21/14 23:00**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	6.9	5.0	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	107	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-0	**14-11-1271-41-A**	**11/13/14 11:39**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 12:08**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	45	5.0	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-2.5	**14-11-1271-42-A**	**11/13/14 11:46**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 12:24**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	21	10	2.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	61	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-5	**14-11-1271-43-A**	**11/13/14 11:49**	**Solid**	**GC 48**	**11/18/14**	**11/21/14 23:49**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	19	4.9	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	114	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-7.5	**14-11-1271-44-A**	**11/13/14 11:51**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 00:05**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	37	5.0	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-10	**14-11-1271-45-A**	**11/13/14 11:54**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 00:21**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	79	4.9	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-12.5	**14-11-1271-46-A**	**11/13/14 11:58**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 12:40**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	230	4.9	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-15	**14-11-1271-47-A**	**11/13/14 12:01**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 00:53**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	109	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-0	**14-11-1271-48-A**	**11/13/14 09:59**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 12:56**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	160	4.9	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	90	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-2.5	**14-11-1271-49-A**	**11/13/14 10:03**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 13:12**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	27	9.9	2.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	68	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-5	**14-11-1271-50-A**	**11/13/14 10:07**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 13:28**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	28	4.9	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-7.5	**14-11-1271-51-A**	**11/13/14 10:11**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 13:45**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	41	5.0	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	61	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-10	**14-11-1271-52-A**	**11/13/14 10:15**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 14:01**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	310	25	5.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-12.5	**14-11-1271-53-A**	**11/13/14 10:18**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 14:17**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	48	4.9	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-15	**14-11-1271-54-A**	**11/13/14 10:23**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 03:18**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3550/SG 2
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-4	**14-11-1271-55-A**	**11/13/14 00:00**	**Solid**	**GC 48**	**11/18/14**	**11/22/14 14:33**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	48	5.0	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	77	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-422-1493**	**N/A**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 06:01**	**141118L08**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-422-1499**	**N/A**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 04:34**	**141118L09**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	90	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-1-GW	**14-11-1271-1-E**	**11/13/14 12:55**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 17:36**	**141119L036**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	75	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-3	**14-11-1271-2-E**	**11/13/14 00:00**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 18:09**	**141119L036**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	76	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-704-926**	**N/A**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 13:18**	**141119L036**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	76	38-134	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-0	**14-11-1271-20-C**	**11/13/14 09:28**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 01:46**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-2.5	**14-11-1271-21-C**	**11/13/14 09:33**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 02:20**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	83	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-5	**14-11-1271-22-C**	**11/13/14 09:36**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 15:02**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.30	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-7.5	**14-11-1271-23-C**	**11/13/14 09:40**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 15:36**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-10	**14-11-1271-24-C**	**11/13/14 09:44**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 16:10**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	60-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-12.5	**14-11-1271-25-C**	**11/13/14 09:48**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 16:44**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	76	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-1-15	**14-11-1271-26-C**	**11/13/14 09:52**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 17:18**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-0	**14-11-1271-27-C**	**11/13/14 10:30**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 17:52**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.23	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-2.5	**14-11-1271-28-C**	**11/13/14 10:34**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 18:26**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.29	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-5	**14-11-1271-29-C**	**11/13/14 10:37**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 19:00**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	60-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-7.5	**14-11-1271-30-C**	**11/13/14 10:41**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 19:34**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-10	**14-11-1271-31-C**	**11/13/14 10:45**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 20:08**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-12.5	**14-11-1271-32-C**	**11/13/14 10:50**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 21:15**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	80	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-2-15	**14-11-1271-33-C**	**11/13/14 10:54**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 21:49**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.29	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-0	**14-11-1271-34-C**	**11/13/14 11:05**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 22:23**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	108	60-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-2.5	**14-11-1271-35-C**	**11/13/14 11:08**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 22:57**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-5	**14-11-1271-36-C**	**11/13/14 11:10**	**Solid**	**GC 24**	**11/17/14**	**11/21/14 23:31**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	84	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-7.5	**14-11-1271-37-C**	**11/13/14 11:12**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 00:04**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-10	**14-11-1271-38-C**	**11/13/14 11:15**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 00:38**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-12.5	**14-11-1271-39-C**	**11/13/14 11:17**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 01:12**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.36	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-126	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-3-15	**14-11-1271-40-C**	**11/13/14 11:20**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 05:09**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	104	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-0	**14-11-1271-41-C**	**11/13/14 11:39**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 05:43**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.24	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-2.5	**14-11-1271-42-C**	**11/13/14 11:46**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 06:17**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-5	**14-11-1271-43-C**	**11/13/14 11:49**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 06:51**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.24	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	73	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-7.5	**14-11-1271-44-C**	**11/13/14 11:51**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 07:25**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.24	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	60-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-10	**14-11-1271-45-C**	**11/13/14 11:54**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 07:58**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.29	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-12.5	**14-11-1271-46-C**	**11/13/14 11:58**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 08:32**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-4-15	**14-11-1271-47-C**	**11/13/14 12:01**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 09:06**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.24	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-0	**14-11-1271-48-C**	**11/13/14 09:59**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 09:40**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-2.5	**14-11-1271-49-C**	**11/13/14 10:03**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 10:14**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.26	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-5	**14-11-1271-50-D**	**11/13/14 10:07**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 11:48**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.30	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-7.5	**14-11-1271-51-C**	**11/13/14 10:11**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 12:25**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.24	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-10	**14-11-1271-52-C**	**11/13/14 10:15**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 12:59**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.23	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-12.5	**14-11-1271-53-C**	**11/13/14 10:18**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 13:33**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NMDU-5-15	**14-11-1271-54-C**	**11/13/14 10:23**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 14:06**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.27	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	60-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-4	**14-11-1271-55-C**	**11/13/14 00:00**	**Solid**	**GC 24**	**11/17/14**	**11/22/14 14:40**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.28	1.00	BV,ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-285-5377**	**N/A**	**Solid**	**GC 24**	**11/21/14**	**11/21/14 14:29**	**141121L028**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-285-5378**	**N/A**	**Solid**	**GC 24**	**11/21/14**	**11/22/14 04:35**	**141121L032**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	102	60-126	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-1-GW	**14-11-1271-1-G**	**11/13/14 12:55**	**Aqueous**	**ICP 7300**	**11/17/14**	**11/20/14 15:00**	**141117LA9**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Arsenic	ND	0.0100	1.00	
Barium	0.248	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	0.0128	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	0.0166	0.0100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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H & P Mobile GeoChemistry, Inc.
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Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-3	**14-11-1271-2-G**	**11/13/14 00:00**	**Aqueous**	**ICP 7300**	**11/17/14**	**11/20/14 13:58**	**141117LA9**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Arsenic	ND	0.0100	1.00	
Barium	ND	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	ND	0.0100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-003-14650**	**N/A**	**Aqueous**	**ICP 7300**	**11/17/14**	**11/20/14 12:48**	**141117LA9**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Arsenic	ND	0.0100	1.00	
Barium	ND	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	ND	0.0100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
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Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 7470A Total
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-1-GW	**14-11-1271-1-G**	**11/13/14 12:55**	**Aqueous**	**Mercury 04**	**11/21/14**	**11/21/14 18:33**	**141121L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-3	**14-11-1271-2-G**	**11/13/14 00:00**	**Aqueous**	**Mercury 04**	**11/21/14**	**11/21/14 18:35**	**141121L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-04-008-7202**	**N/A**	**Aqueous**	**Mercury 04**	**11/21/14**	**11/21/14 14:57**	**141121L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
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Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-1-0	**14-11-1271-4-A**	**11/13/14 15:11**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 16:31**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	24-168	
2,4,5,6-Tetrachloro-m-Xylene	85	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-1-5	**14-11-1271-5-A**	**11/13/14 15:14**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 16:50**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	24-168	
2,4,5,6-Tetrachloro-m-Xylene	82	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
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Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-1-10	**14-11-1271-6-A**	**11/13/14 15:18**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 17:09**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	24-168	
2,4,5,6-Tetrachloro-m-Xylene	89	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-1-15	**14-11-1271-7-A**	**11/13/14 15:25**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 17:28**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	70	24-168	
2,4,5,6-Tetrachloro-m-Xylene	78	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
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Carlsbad, CA 92010-7226

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-2-0	**14-11-1271-8-A**	**11/13/14 14:47**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 17:47**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	78	24-168	
2,4,5,6-Tetrachloro-m-Xylene	70	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-2-5	**14-11-1271-9-A**	**11/13/14 14:50**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 18:06**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	76	24-168	
2,4,5,6-Tetrachloro-m-Xylene	70	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

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Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-2-10	**14-11-1271-10-A**	**11/13/14 14:54**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 18:25**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	24-168	
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-2-15	**14-11-1271-11-A**	**11/13/14 15:00**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 18:44**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

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Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-3-0	**14-11-1271-12-A**	**11/13/14 14:09**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 19:03**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	24-168	
2,4,5,6-Tetrachloro-m-Xylene	74	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-3-5	**14-11-1271-13-A**	**11/13/14 14:11**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 19:22**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	76	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-3-10	**14-11-1271-14-A**	**11/13/14 14:13**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 19:41**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-3-15	**14-11-1271-15-A**	**11/13/14 14:19**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 20:00**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	78	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

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Carlsbad, CA 92010-7226

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-4-0	**14-11-1271-16-A**	**11/13/14 14:25**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 20:19**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	66	24-168	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-4-5	**14-11-1271-17-A**	**11/13/14 14:34**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 20:38**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	81	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-4-10	**14-11-1271-18-A**	**11/13/14 14:36**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 20:57**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	72	24-168	
2,4,5,6-Tetrachloro-m-Xylene	81	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BFTR-4-15	**14-11-1271-19-A**	**11/13/14 14:41**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 21:16**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	78	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-5	**14-11-1271-56-A**	**11/13/14 00:00**	**Solid**	**GC 31**	**11/20/14**	**11/24/14 16:32**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	70	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-6	**14-11-1271-57-A**	**11/13/14 00:00**	**Solid**	**GC 31**	**11/20/14**	**11/24/14 16:52**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-2953**	**N/A**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 15:15**	**141120L03**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	86	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DIPT-1-GW	**14-11-1271-1-A**	**11/13/14 12:55**	**Aqueous**	**GC/MS FFF**	**11/21/14**	**11/21/14 18:21**	**141121L007**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	83	78-126	
1,2-Dichloroethane-d4	91	75-135	
Toluene-d8	97	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-3	**14-11-1271-2-A**	**11/13/14 00:00**	**Aqueous**	**GC/MS FFF**	**11/21/14**	**11/21/14 18:48**	**141121L007**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	83	78-126	
1,2-Dichloroethane-d4	91	75-135	
Toluene-d8	97	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Mt. Shasta / 202311.0000

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-1	**14-11-1271-3-A**	**11/13/14 00:00**	**Aqueous**	**GC/MS FFF**	**11/21/14**	**11/21/14 19:15**	**141121L007**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	82	78-126	
1,2-Dichloroethane-d4	91	75-135	
Toluene-d8	98	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-15714**	**N/A**	**Aqueous**	**GC/MS FFF**	**11/21/14**	**11/21/14 12:36**	**141121L007**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	83	78-126	
1,2-Dichloroethane-d4	91	75-135	
Toluene-d8	97	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 1 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NMDU-2-15	**Sample**	**Solid**	**GC 47**	**11/18/14**	**11/22/14 10:58**	**141118S12**
NMDU-2-15	**Matrix Spike**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 05:56**	**141118S12**
NMDU-2-15	**Matrix Spike Duplicate**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 06:13**	**141118S12**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	ND	400.0	478.1	120	490.4	123	64-130	3	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 2 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-11-1168-23	**Sample**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 08:25**	**141118S11**
14-11-1168-23	**Matrix Spike**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 07:21**	**141118S11**
14-11-1168-23	**Matrix Spike Duplicate**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 07:37**	**141118S11**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	ND	400.0	438.8	110	469.3	117	64-130	7	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 3 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NMDU-2-15	**Sample**	**Solid**	**GC 47**	**11/18/14**	**11/22/14 10:58**	**141118S09**
NMDU-2-15	**Matrix Spike**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 05:23**	**141118S09**
NMDU-2-15	**Matrix Spike Duplicate**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 05:40**	**141118S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	416.2	104	410.7	103	64-130	1	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 4 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-11-1168-23	**Sample**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 08:25**	**141118S08**
14-11-1168-23	**Matrix Spike**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 06:49**	**141118S08**
14-11-1168-23	**Matrix Spike Duplicate**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 07:05**	**141118S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	365.5	91	332.4	83	64-130	9	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 5 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-11-1355-2	**Sample**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 14:25**	**141119S032**
14-11-1355-2	**Matrix Spike**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 14:58**	**141119S032**
14-11-1355-2	**Matrix Spike Duplicate**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 15:56**	**141119S032**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1988	99	1928	96	68-122	3	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 3010A Total
Method: EPA 6010B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-11-1237-1	**Sample**	**Aqueous**	**ICP 7300**	**11/17/14**	**11/20/14 13:21**	**141117SA9**
14-11-1237-1	**Matrix Spike**	**Aqueous**	**ICP 7300**	**11/17/14**	**11/20/14 13:23**	**141117SA9**
14-11-1237-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**11/17/14**	**11/20/14 13:24**	**141117SA9**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.5000	0.6944	139	0.7278	146	72-132	5	0-10	3
Arsenic	ND	0.5000	0.6555	131	0.6753	135	80-140	3	0-11	
Barium	0.01108	0.5000	0.5630	110	0.6007	118	87-123	6	0-6	
Beryllium	ND	0.5000	0.6409	128	0.6596	132	89-119	3	0-8	3
Cadmium	ND	0.5000	0.6352	127	0.6545	131	82-124	3	0-7	3
Chromium	ND	0.5000	0.6197	124	0.6342	127	86-122	2	0-8	3
Cobalt	ND	0.5000	0.6834	137	0.7086	142	83-125	4	0-7	3
Copper	ND	0.5000	0.6614	132	0.6819	136	78-126	3	0-7	3
Lead	ND	0.5000	0.6460	129	0.6690	134	84-120	3	0-7	3
Molybdenum	0.1458	0.5000	0.7629	123	0.7844	128	78-126	3	0-7	3
Nickel	ND	0.5000	0.6445	129	0.6720	134	84-120	4	0-7	3
Selenium	ND	0.5000	0.6177	124	0.6398	128	79-127	4	0-9	3
Silver	ND	0.2500	0.2779	111	0.2976	119	86-128	7	0-7	
Thallium	ND	0.5000	0.6011	120	0.6304	126	79-121	5	0-8	3
Vanadium	ND	0.5000	0.6360	127	0.6520	130	88-118	2	0-7	3
Zinc	0.01320	0.5000	0.7165	141	0.7262	143	89-131	1	0-8	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.	Date Received:	11/15/14
2470 Impala Drive	Work Order:	14-11-1271
Carlsbad, CA 92010-7226	Preparation:	EPA 7470A Total
	Method:	EPA 7470A
Project: Mt. Shasta / 202311.0000		Page 7 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-11-1237-3	**Sample**	**Aqueous**	**Mercury 04**	**11/21/14**	**11/21/14 15:01**	**141121S04**
14-11-1237-3	**Matrix Spike**	**Aqueous**	**Mercury 04**	**11/21/14**	**11/21/14 15:04**	**141121S04**
14-11-1237-3	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**11/21/14**	**11/21/14 15:06**	**141121S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.008901	89	0.008490	85	57-141	5	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.	Date Received:	11/15/14
2470 Impala Drive	Work Order:	14-11-1271
Carlsbad, CA 92010-7226	Preparation:	EPA 3545
	Method:	EPA 8082
Project: Mt. Shasta / 202311.0000		Page 8 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BFTR-4-15	**Sample**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 21:16**	**141120S03**
BFTR-4-15	**Matrix Spike**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 15:53**	**141120S03**
BFTR-4-15	**Matrix Spike Duplicate**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 16:12**	**141120S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	114.7	115	117.6	118	50-135	2	0-20	
Aroclor-1260	ND	100.0	111.1	111	111.1	111	50-135	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-11-1153-1	**Sample**	**Aqueous**	**GC/MS FFF**	**11/21/14**	**11/21/14 13:48**	**141121S008**
14-11-1153-1	**Matrix Spike**	**Aqueous**	**GC/MS FFF**	**11/21/14**	**11/21/14 14:16**	**141121S008**
14-11-1153-1	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS FFF**	**11/21/14**	**11/21/14 14:43**	**141121S008**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	45.11	90	43.19	86	74-122	4	0-21	
Ethylbenzene	ND	50.00	48.74	97	45.84	92	77-125	6	0-24	
Toluene	ND	50.00	47.07	94	44.79	90	72-126	5	0-23	
p/m-Xylene	ND	100.0	99.31	99	93.71	94	63-129	6	0-25	
o-Xylene	ND	50.00	49.70	99	47.47	95	62-128	5	0-24	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 3510/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 1 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-286-47	**LCS**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 14:58**	**141117B24**
099-15-286-47	**LCSD**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 15:14**	**141117B24**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	20000	21280	106	22970	115	75-117	8	0-13	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 3510/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 2 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-296-278	**LCS**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 14:25**	**141117B23**
099-15-296-278	**LCSD**	**Aqueous**	**GC 48**	**11/17/14**	**11/21/14 14:41**	**141117B23**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	20000	21080	105	20520	103	75-117	3	0-13	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 3 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-420-1141	**LCS**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 05:07**	**141118L12**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Motor Oil	400.0	476.4	119	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 4 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-420-1136	**LCS**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 06:33**	**141118L11**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Motor Oil	400.0	402.4	101	75-123	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 5 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-422-1499	**LCS**	**Solid**	**GC 47**	**11/18/14**	**11/21/14 04:50**	**141118L09**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	360.0	90	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 3550/SG 2
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 6 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-422-1493	**LCS**	**Solid**	**GC 48**	**11/18/14**	**11/20/14 06:17**	**141118L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	351.0	88	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)
Project: Mt. Shasta / 202311.0000			Page 7 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-704-926	**LCS**	**Aqueous**	**GC 25**	**11/19/14**	**11/19/14 13:51**	**141119L036**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Gasoline	2000	1998	100	78-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.	Date Received: 11/15/14
2470 Impala Drive	Work Order: 14-11-1271
Carlsbad, CA 92010-7226	Preparation: EPA 5035
	Method: EPA 8015B (M)
Project: Mt. Shasta / 202311.0000	Page 8 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-285-5377	**LCS**	**Solid**	**GC 24**	**11/21/14**	**11/21/14 13:21**	**141121L028**
099-12-285-5377	**LCSD**	**Solid**	**GC 24**	**11/21/14**	**11/21/14 13:55**	**141121L028**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2.000	1.886	94	1.872	94	55-139	1	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

H & P Mobile GeoChemistry, Inc.
2470 Impala Drive
Carlsbad, CA 92010-7226

Project: Mt. Shasta / 202311.0000

Date Received: 11/15/14
Work Order: 14-11-1271
Preparation: EPA 5035
Method: EPA 8015B (M)
Page 9 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-285-5378	**LCS**	**Solid**	**GC 24**	**11/21/14**	**11/22/14 03:27**	**141121L032**
099-12-285-5378	**LCSD**	**Solid**	**GC 24**	**11/21/14**	**11/22/14 04:01**	**141121L032**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2.000	1.910	96	1.893	95	55-139	1	0-18	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: Mt. Shasta / 202311.0000			Page 10 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-003-14650	**LCS**	**Aqueous**	**ICP 7300**	**11/17/14**	**11/20/14 12:50**	**141117LA9**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.5000	0.5596	112	80-120	73-127	
Arsenic	0.5000	0.5162	103	80-120	73-127	
Barium	0.5000	0.5176	104	80-120	73-127	
Beryllium	0.5000	0.5070	101	80-120	73-127	
Cadmium	0.5000	0.5251	105	80-120	73-127	
Chromium	0.5000	0.5284	106	80-120	73-127	
Cobalt	0.5000	0.5839	117	80-120	73-127	
Copper	0.5000	0.5392	108	80-120	73-127	
Lead	0.5000	0.5440	109	80-120	73-127	
Molybdenum	0.5000	0.5101	102	80-120	73-127	
Nickel	0.5000	0.5502	110	80-120	73-127	
Selenium	0.5000	0.4960	99	80-120	73-127	
Silver	0.2500	0.2456	98	80-120	73-127	
Thallium	0.5000	0.5426	109	80-120	73-127	
Vanadium	0.5000	0.5132	103	80-120	73-127	
Zinc	0.5000	0.5199	104	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: Mt. Shasta / 202311.0000			Page 11 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-04-008-7202	**LCS**	**Aqueous**	**Mercury 04**	**11/21/14**	**11/21/14 14:59**	**141121L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.01023	102	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 3545
		Method:	EPA 8082
Project: Mt. Shasta / 202311.0000			Page 12 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-2953	**LCS**	**Solid**	**GC 31**	**11/20/14**	**11/22/14 15:34**	**141120L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	106.0	106	50-135	
Aroclor-1260	100.0	102.8	103	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

H & P Mobile GeoChemistry, Inc.		Date Received:	11/15/14
2470 Impala Drive		Work Order:	14-11-1271
Carlsbad, CA 92010-7226		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Mt. Shasta / 202311.0000			Page 13 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-15714	**LCS**	**Aqueous**	**GC/MS FFF**	**11/21/14**	**11/21/14 11:30**	**141121L007**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Benzene	50.00	48.33	97	80-120	
Ethylbenzene	50.00	52.44	105	80-123	
Toluene	50.00	49.39	99	80-120	
p/m-Xylene	100.0	106.3	106	75-123	
o-Xylene	50.00	52.15	104	74-122	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-11-1271 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3010A Total	771	ICP 7300	1
EPA 7470A	EPA 7470A Total	915	Mercury 04	1
EPA 8015B (M)	EPA 5035	715	GC 24	2
EPA 8015B (M)	EPA 5030C	797	GC 25	2
EPA 8015B (M)	EPA 3550/SG 2	607	GC 47	1
EPA 8015B (M)	EPA 3550/SG 2	607	GC 48	1
EPA 8015B (M)	EPA 3550/SG 2	669	GC 48	1
EPA 8015B (M)	EPA 3510/SG 2	682	GC 48	1
EPA 8082	EPA 3545	944	GC 31	1
EPA 8260B	EPA 5030C	959	GC/MS FFF	2

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Glossary of Terms and Qualifiers

Work Order: 14-11-1271 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Mobile Geochemistry Inc.
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SOIL / WATER Chain of Custody

DATE: 11/13/14
Page 1 of 6

Lab Client and Project Information

Lab Client/Consultant: TRC
Lab Client Project Manager: Gary Gunderson
Lab Client Address: 10680 White Rock Rd. Suite 100
Lab Client City, State, Zip: Rancho Cordova, CA 95670
Phone Number: (916) 366-0632

Project Name / #: Mt. Shasta 202311.0000/
Project Location: Mt Shasta
Report E-Mail(s): ggunderson@trcsolutions.com
msellwood@trcsolutions.com

Sample Receipt (Lab Use Only)

Date Rec'd: | Control #:
H&P Project #
Lab Work Order #
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below
Custody Seal Intact: ☐ Yes ☐ No | Temp:
Outside Lab:
Receipt Notes/Tracking #: **14-11-1271**
Lab PM Initials:

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:
☐ CA Geotracker Global ID:

Turnaround Time

☒ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☐ Mobile Lab
☐ 48-Hr Rush ☐ Other:

Sampler Information

Sampler(s): M. Sellwood
Signature: Mike Sellwood
Date: 11/13/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams
* TPH-d w/ silica gel cleanup

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☒ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH-d w/ SGC, TPH-mo, TPH-g by 8015B	PCP by 515.1	Cam-17 metals	PCBs by 8082A			
1	DIPT-1-GW		11/13/14	1255	water	various	9	various			X				X	X	X				
2	EB-3		↓	—	↓	↓	↓	↓			X				X	X	X				
3	TB-1		↓	—	↓	VOAs	2	HCl			X										
4	BFTR-1-0			1511	soil	Jar	1	None										X			
5	BFTR-1-5			1514																	
6	BFTR-1-10			1518																	
7	BFTR-1-15		↓	1525	↓	↓	↓	↓										↓			
8	BFTR-2-0			1447																	
9	BFTR-2-5			1450																	
10	BFTR-2-10		↓	1454	↓	↓	↓	↓										↓			

Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Mike Sellwood	TRC	11/14/14	1030				
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
					EQ	11/15/14	0900
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Rev 12/31/2013

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Mobile Geochemistry Inc.
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& Field Office - Signal Hill, CA
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P 760.804.9678 F 760.804.9159

SOIL / WATER Chain of Custody

DATE: 11/13/14

Lab Client and Project Information

Lab Client/Consultant: TRC	Project Name / #: Mt. Shasta
Lab Client Project Manager:	Project Location:
Lab Client Address:	Report E-Mail(s):
Lab Client City, State, Zip:	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order #	
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
Outside Lab:	
Receipt Notes/Tracking #: 1271	
Lab PM Initials:	

Reporting Requirements	Turnaround Time	Sampler Information
☒ Standard Report ☐ Level III ☐ Level IV	☒ 5-7 day Stnd ☐ 24-Hr Rush	Sampler(s): M. Sellwood
☐ Excel EDD ☐ Other EDD:	☐ 3-day Rush ☐ Mobile Lab	Signature: Mike Sellwood
☐ CA Geotracker Global ID:	☐ 48-Hr Rush ☐ Other:	Date: 11/13/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams
* TPH-d w/ silica gel cleanup

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	PCBs by 8082A TPH-d w/ SG, TPH-mo TPH-g by 8015B					
11	BFTR-2-15		11/13/14	1500	Soil	Jar	1	None							X					
12	BFTR-3-0			1409																
13	BFTR-3-5			1411																
14	BFTR-3-10			1413																
15	BFTR-3-15			1419																
16	BFTR-4-0			1425																
17	BFTR-4-5			1434																
18	BFTR-4-10			1436																
19	BFTR-4-15			1441																
20	NMDU-1-0			0928		Encore/Jar	4	None								X				

Approved/Relinquished by: Mike Sellwood	Company: TRC	Date: 11/14/14	Time: 1030
Approved/Relinquished by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:

Received by:	Company:	Date:	Time:
Received by: [signature]	Company: TCG	Date: 11/15/14	Time: 0900
Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Rev 12/31/2013

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Mobile Geochemistry Inc.
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P 760.804.9678 F 760.804.9159

SOIL / WATER Chain of Custody

DATE: 11/13/14

Lab Client and Project Information

Lab Client/Consultant: TRC	Project Name / #: Mt. Shasta
Lab Client Project Manager:	Project Location:
Lab Client Address:	Report E-Mail(s):
Lab Client City, State, Zip:	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order #	
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
Outside Lab:	
Receipt Notes/Tracking #: 1271	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☒ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☐ Mobile Lab
☐ 48-Hr Rush ☐ Other:_____

Sampler Information

Sampler(s): M. Sellwood
Signature: Mike Sellwood
Date: 11/13/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams
* TPH-d w/ silica gel

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH-d w/SGC, TPH-mo, TPH-g by 8015B						
21	NMDU-1-2.5		11/13/14	0933	Soil	Encore/Jar	4	None							X						
22	NMDU-1-5			0936																	
23	NMDU-1-7.5			0940																	
24	NMDU-1-10			0944																	
25	NMDU-1-12.5			0948																	
26	NMDU-1-15			0952																	
27	NMDU-2-0			1030																	
28	NMDU-2-2.5			1034																	
29	NMDU-2-5			1037																	
30	NMDU-2-7.5			1041																	

Approved/Relinquished by: Mike Sellwood	Company: TRC	Date: 11/14/14	Time: 1030	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company: TRC	Date: 11/15/14	Time: 0900

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Rev 12/31/2013

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Mobile Geochemistry Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

SOIL / WATER Chain of Custody

DATE: 11/13/14
Page 4 of 6

Lab Client and Project Information

Lab Client/Consultant: TRC	Project Name / #: Mt. Shasta
Lab Client Project Manager:	Project Location:
Lab Client Address:	Report E-Mail(s):
Lab Client City, State, Zip:	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order #	
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
Outside Lab:	
Receipt Notes/Tracking #: 1271	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☒ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☐ Mobile Lab
☐ 48-Hr Rush ☐ Other:____

Sampler Information

Sampler(s): M. Sellwood
Signature: Mike Sellwood
Date: 11/13/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams
* TPH-d w/ silica gel cleanup

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH-d w/SGC, TPH-mo, TPH-g by 8015B						
31	NMDU-2-10		11/13/14	1045	Soil	Encore/Jar	4	None							X						
32	NMDU-2-12.5		↓	1050	↓	↓	↓	↓							↓						
33	NMDU-2-15		↓	1054	↓	↓	↓	↓							↓						
34	NMDU-3-0			1105																	
35	NMDU-3-2.5			1108																	
36	NMDU-3-5			1110																	
37	NMDU-3-7.5			1112																	
38	NMDU-3-10			1115																	
39	NMDU-3-12.5			1117																	
40	NMDU-3-15		↓	1120	↓	↓	↓	↓							↓						

Approved/Relinquished by: Mike Sellwood	Company: TRC	Date: 11/14/14	Time: 1030	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company: EG	Date: 11/15/14	Time: 0900
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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SOIL / WATER Chain of Custody

DATE: 11/13/14

Lab Client and Project Information

Lab Client/Consultant: TRC	Project Name / #: Mt. Shasta
Lab Client Project Manager:	Project Location:
Lab Client Address:	Report E-Mail(s):
Lab Client City, State, Zip:	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order #	
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
Outside Lab:	
Receipt Notes/Tracking #: 1271	
Lab PM Initials:	

Reporting Requirements	Turnaround Time	Sampler Information
☒ Standard Report ☐ Level III ☐ Level IV	☒ 5-7 day Stnd ☐ 24-Hr Rush	Sampler(s): M. Sellwood
☐ Excel EDD ☐ Other EDD:	☐ 3-day Rush ☐ Mobile Lab	Signature: Mike Sellwood
☐ CA Geotracker Global ID:	☐ 48-Hr Rush ☐ Other:	Date: 11/13/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

* Report to Louise Adams
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41	NMDU-4-0		11/13/14	1139	Soil	Encore/Jar	4	None							X						
42	NMDU-4-2.5			1146																	
43	NMDU-4-5			1149																	
44	NMDU-4-7.5			1151																	
45	NMDU-4-10			1154																	
46	NMDU-4-12.5			1158																	
47	NMDU-4-15			1201																	
48	NMDU-5-0			0959																	
49	NMDU-5-2.5			1003																	
50	NMDU-5-5			1007																	

	Company	Date	Time
Approved/Relinquished by: Mike Sellwood	TRC	11/14/14	1030
Approved/Relinquished by:			
Approved/Relinquished by:			

	Company	Date	Time
Received by:			
Received by:	Eur	11/15/14	0900
Received by:			

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SOIL / WATER Chain of Custody

DATE: 11/13/14
Page 6 of 6

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Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd:	Control #:
H&P Project #	
Lab Work Order #	
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Custody Seal Intact: ☐ Yes ☐ No	Temp:
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☐ Excel EDD ☐ Other EDD:	☐ 3-day Rush ☐ Mobile Lab	Signature: Mike Sellwood
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	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	MATRIX: SOIL or WATER	CONTAINER SIZE & TYPE	# OF CONTAINERS	Preservative	8260B VOCs Standard Full List (Note: Oxygenates not included)	8260B ☐ Oxygenates ☐ MTBE only	8260B VOCs Short List ☐ BTEX ☐ Naphthalene	8260B VOC Short List, Other* *Indicate in special instructions	LUFT GC/MS TPH Gas only	LUFT TPH ☐ Gas ☐ Diesel ☐ Extended	TPH-d w/ silica gel cleanup TPH-g by 8015B						
51	NMDU-5-7.5		11/13/14	1011	Soil	Encore/Jar	4	None							X						
52	NMDU-5-10		↓	1015	↓	↓	↓	↓							↓						
53	NMDU-5-12.5			1018																	
54	NMDU-5-15			1023																	

Approved/Relinquished by: Mike Sellwood	Company: TRC	Date: 11/14/14	Time: 1030	Received by:
Approved/Relinquished by:	Company:	Date:	Time:	Received by: Company: Date: 11/15/14 Time: 0900
Approved/Relinquished by:	Company:	Date:	Time:	Received by: Company: Date: Time:

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Rev 12/31/2013

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1271

00026

00052

FedEx Express Package US Airbill

FedEx Tracking Number 8020 0781 4523

Form ID No. 0215

SL42

Recipient's

1 From

Date 11/14/14

Sender's Name Mike Sellwood Phone 916 366-0632

Company [redacted]

Address 10580 WHITE ROCK RD STE 100

Dept./Floor/Suite/Room

City RANCHO CORDOVA State CA ZIP 95670-6175

2 Your Internal Billing Reference 302311.0000 / TA09

3 To

Recipient's Name SAMPLE RECEIVING Phone 714 895-5494

Company [redacted] JOB CALCIENCE, INC.

Address [redacted] IRVINE WAY

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

HOLD Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

City [redacted] State [redacted] ZIP 92611-1427

0103884044

8020 0781 4523

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to
For packages over 150 lb FedEx Express Freight

Next Business Day

- [X] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

6 Special Handling and Delivery Signature Options

- [X] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

- [X] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recip address, someone at a neig address may sign for deliver residential deliveries only. F

Does this shipment contain dangerous goods?

One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain rec Acct. N

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cas

Total Packages 1 Total Weight 9 lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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WORK ORDER #: 14-11-[1][2][7][1]

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: TRC

DATE: 11/15/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.9 °C - 0.2 °C (CF) = 2.7 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: SD2

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: SD2

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 920

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑ 11/15/14	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☑3EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑6VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☑1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☑500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 1410310 **Labeled/Checked by:** 92C

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 962

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 962

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WORK ORDER #: 14-11-[1][2][7][ ]

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☑ **Sample(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☐ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

Comments:

(-55) Received 4 containers
1-4oz clear glass jar
3-Encores labeled as:
Dup-4 11/13/14

(-56) Received 1-4oz clear glass jar labeled as:
Dup-5 11/13/14

(-57) Received 1-4oz clear glass jar labeled as:
Dup-6 11/13/14

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: [illegible] 11/15/14

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Subcontractor Analysis Report

Work Order: 14-11-1271 Page 1 of 1

One or more samples in this work order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

1. Eurofins Eaton Analytical - Monrovia,CA CA ELAP 2813
   Various

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750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

NELAP ACCREDITED TNI LABORATORY ORELAP 4034

ilac-MRA

ACLASS ACCREDITED TESTING AT-1807

Laboratory Report

for

Eurofins CalScience
7440 Lincoln Way
Garden Grove, CA 92641-1432
Attention: Ranjit Clarke
Fax: 714-894-7501

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Date of Issue
11/26/2014

EUROFINS EATON ANALYTICAL

Report: 508501
Project: RCLARKE
Group: SUBCONTRACT

CPP: Cam P Pham

Project Manager

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.

eurofins | Eaton Analytical

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2014-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
Georgia	947	**Pennsylvania ***	68-565
Guam	14-003r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-7
Kansas *	E-10268	**Utah ***	CA000062014-7
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	460260
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

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Eurofins Eaton Analytical, Inc.
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
T | 626-386-1100
F | 626-386-1101
www.EatonAnalytical.com

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Sulfite	SM 4500-SO^{3}B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Acknowledgement of Samples Received

Addr: **Eurofins CalScience**
7440 Lincoln Way
Garden Grove, CA 92641-1432

Attn: Ranjit Clarke
Phone: 714-895-5494

Client ID: CALSCIENCE
Folder #: 508501
Project: RCLARKE
Sample Group: SUBCONTRACT

Project Manager: Cam P Pham
Phone: (909) 254-0381
PO #: 14-11-1271

The following samples were received from you on **November 18, 2014** at **13:05**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201411180247	DIPT-1-GW	11/13/2014 1255
	@515_4-REG	
201411180248	EB-3	11/13/2014 0000
	@515_4-REG	

Test Description

@515_4-REG -- Chlorophenoxy Herbicides

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eurofins | Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 (714) 895-5494

TO: Eurofins Eaton

CHAIN OF CUSTODY RECORD

DATE: 11/17/14

PAGE: 1 OF 1

508501

LABORATORY CLIENT: Eurofins Calscience, Inc.

ADDRESS: 7440 Lincoln Way

CITY: Garden Grove, CA 92841-1427

TEL: (714) 895-5494

E-MAIL: ranjitclarke@EurofinsUS.com

CLIENT PROJECT NAME / NUMBER: 14-11-1271

PROJECT CONTACT: Ranjit Clarke

SAMPLER(S): (PRINT)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ Normal

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

Please report Pentachlorophenol only.

5.7°C (5.9°C - 0.2°C) Frozen + wet ice

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	EPA 515.1 - Pentachlorophenol only
	DIPT-1-GW	11/13/14	12:55	W	1	X
	EB-3	11/13/14	-	W	1	X

Relinquished by: (Signature)	(CALSCIENCE)	Received by / Affiliation: (Signature) EEA	Date: 11/18/14 Time: 1140
Relinquished by: (Signature) EEA		Received by / Affiliation: (Signature) EEA	Date: 11/18/14 Time: 1305
Relinquished by: (Signature)		Received by / Affiliation: (Signature)	Date: Time:

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eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: 508501

Eurofins CalScience
Ranjit Clarke
7440 Lincoln Way
Garden Grove, CA 92641-1432

Folder Comments

Q3 - The samples were preserved with Na2S2O3 instead of Na2SO3 per method requirement. The extracts were cleaned with Hg but the Na2S2O3 still interferes, causing noisy baseline and extra non-target peaks . Target analyte (pentachlorophenol) wasn't affected by the non-target peaks.

Flags Legend:

Q3 - Sample received with improper chemical preservation.

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The Comments Report may be blank if there are no comments for this report.

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 508501

Eurofins CalScience
Ranjit Clarke
7440 Lincoln Way
Garden Grove, CA 92641-1432

Samples Received on:
11/18/2014 13:05

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201411180247	**DIPT-1-GW**				
11/24/2014 03:35	Pentachlorophenol		0.67	1	ug/L	0.04

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SUMMARY OF POSITIVE DATA ONLY

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 508501

Eurofins CalScience
Ranjit Clarke
7440 Lincoln Way
Garden Grove, CA 92641-1432

Samples Received on:
11/18/2014 13:05

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
DIPT-1-GW (201411180247)						**Sampled on 11/13/2014 1255**		
			EPA 515.4 - Chlorophenoxy Herbicides					
11/22/2014	11/24/2014 03:35	805657	(EPA 515.4)	Pentachlorophenol	0.67 (Q3)	ug/L	0.04	1
EB-3 (201411180248)						**Sampled on 11/13/2014 0000**		
			EPA 515.4 - Chlorophenoxy Herbicides					
11/22/2014	11/24/2014 04:02	805657	(EPA 515.4)	Pentachlorophenol	ND (Q3)	ug/L	0.04	1

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Rounding on totals after summation.
(c) - indicates calculated results

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Summary: 508501

Eurofins CalScience

QC Ref # 805657 - Chlorophenoxy Herbicides **Analysis Date: 11/24/2014**

201411180247	DIPT-1-GW	Analyzed by: LRL
201411180248	EB-3	Analyzed by: LRL

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eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory QC
Report: 508501

Eurofins CalScience

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 805657 - Chlorophenoxy Herbicides by EPA 515.4						**Analysis Date: 11/23/2014**			
CCCH	Pentachlorophenol		0.8	0.811	ug/L	101	(70-130)		
CCCM	Pentachlorophenol		0.2	0.187	ug/L	93	(70-130)		
MBLK	Pentachlorophenol			<0.013	ug/L				
MRL_CHK	Pentachlorophenol		0.04	0.0373	ug/L	93	(50-150)		
MS1_201411130557	Pentachlorophenol	ND	0.6	0.611	ug/L	100	(70-130)		
MSD1_201411130557	Pentachlorophenol	ND	0.6	0.575	ug/L	94	(70-130)	30	6.1

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Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY
700 HEINZ AVE SUITE 100, BERKELEY, 94710
Tel. 510-540-3003 FAX 510-540-2305

DIOXIN/FURAN REPORT

Sample Nos:	AY01120, AY01120d, AY01121, AY01122, AY01123, AY01124, AY01125, AY01211,
Collector Nos:	BFBU-1-0, BFBU-1-0, BFBU-1-2.5, BFBU-1-4, BFBU-2-0, BFBU-2-2.5, BFBU-2-3, WMS-01
Sample type	Soil
Sample Location	Roseburg Lumber Mill
Procedure	ECL-880/EPA-1613
Run:	14EC0036_roseberg_lumber_mill
Instrument	DFS-III
Blank File	14ec0036_roseberg_lumber_mill_methblnk_01
GC Parameter File:	1613b_070213
MS Parameter File:	1613_pfk_60MDIOXIN2-MODIFIED_062013
Autosampler File:	1613_070213
Comments:	

SAMPLE PREP:	Roshni Sarala	Signature: Rosh	Date: 03/05/15
SAMPLE PREP:	Darcy Tarrant	Signature: DTarr	Date: 03/09/15
GC/MS ANALYST:	Joginder Dhaliwal	Signature: JSDhaliwal	Date: 03/05/15
REVIEWING ANALYST:	Reber Brown	Signature: Reber Brown	Date: 03/05/15
SUPERVISOR:	June-Soo Park	Signature: JuneSooPark	Date: 03/09/15

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Duane White
collector's phone: 916.255.3585 Report Date: 3/5/2015
sampling site: Roseburg Lumber Mil

ECL: AY01120, AY01120d, AY01121, AY01122, AY01123, AY(

HML-NUMBER :	AY01120		AY01121		AY01122		AY01123		AY01124		AY01125	
COLLECTOR'S NUMBER	BFBU-1-0		BFBU-1-2.5		BFBU-1-4		BFBU-2-0		BFBU-2-2.5		BFBU-2-3	
MATRIX	soil		soil		soil		soil		soil		soil	
MOISTURE CONTENT												
FAT %	N/A		N/A		N/A		N/A		N/A		N/A	
UNITS	pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)	
2,3,7,8-Cl4DD	0.81	I,D	0.24	I,B	0.22	I,B	0.75	I,D	0.64	I,D	0.76	I,D
1,2,3,7,8-Cl5DD	3.89	D	1.10	I,B	0.75	B	17.5		0.94	I,B	9.88	
1,2,3,4,7,8-Cl6DD	5.44		0.38	I,B	0.48	I,B	23.3		12.5	I	7.40	
1,2,3,6,7,8-Cl6DD	12.4		0.18	I,B	1.43	I,D	276		12.5		52.4	
1,2,3,7,8,9-Cl6DD	7.17		0.65	I,B	1.66	I,D	53.4		1.29	I,D	22.7	
1,2,3,4,6,7,8-Cl7DD	323		11.97		33.1		5520		210		818	
1,2,3,4,6,7,8,9-Cl8DD	2370		35.03		189		42100		1620		5930	
2,3,7,8-Cl4DF	2.93		0.25	B	0.98	D	70.4		4.44		28.9	
1,2,3,7,8-Cl5DF	0.72	I,B	0.67	B	1.72	I,D	4.34		0.38	I,B	3.83	
2,3,4,7,8-Cl5DF	0.56	I,B	0.49	I,B	1.35	B	59.9		0.55	I,B	6.01	
1,2,3,4,7,8-Cl6DF	1.72	I,D	0.73	I,B	2.22	I,D	80.7		2.91	I,D	15.5	
1,2,3,6,7,8-Cl6DF	1.17	I,D	0.49	B	0.77	I,B	57.2		2.92	I,D	14.8	
1,2,3,7,8,9-Cl6DF	1.88	I,B	0.39	I,B	0.73	ND	15.7		2.41	B	4.02	
2,3,4,6,7,8-Cl6DF	2.75	I	0.43	I,B	1.81	I,D	96.1		5.67		22.9	
1,2,3,4,6,7,8-Cl7DF	98.2		1.34	B	2.11	B	9580		240		1540	
1,2,3,4,7,8,9-Cl7DF	2.02	I,D	1.00	B	2.26	I,D	199		3.03	I,D	11.8	
1,2,3,4,6,7,8,9-Cl8DF	65.6		8.60	I	17.5	I,D	11700		199		881	
PCB-77												
PCB-81												
PCB-126												
PCB-169												
Cl4DD	0.54		1.74		0.64		1.80		0.76		5.73	
Cl5DD	1.38		3.30		3.20		27.8		1.55		17.8	
Cl6DD	64.7		2.18		31.0		1060		14.4		337	
Cl7DD	639		31.0		64.9		11900		290		1740	
Cl4DF	56.2		16.9		38.1		130		46.4		28.9	
Cl5DF	26.8		0.64		0.84		458		18.7		121	
Cl6DF	95.1		14.6		2.87		6540		209		1070	
Cl7DF	212		6.70		30.5		24000		301		2960	
13C-2,3,7,8-Cl4DD %REC	128		97.1		116		119		92.1		117	
13C-1,2,3,7,8-Cl5DD %REC	145		108		126		138		99.2		128	
13C-1,2,3,4,7,8-Cl6DD %REC	165		137		145		159		108		141	
13C-1,2,3,6,7,8-Cl6DD %REC	162		134		134		153		106		135	
13C-1,2,3,4,6,7,8-Cl7DD %REC	150		106		90.0		123		83.9		119	
13C-1,2,3,4,6,7,8,9-Cl8DD %REC	110		62		34.7		74.2		53.3		80	
13C-2,3,7,8-Cl4DF %REC	143		112		132		145		107		141	
13C-1,2,3,7,8-Cl5DF %REC	141		104		124		133		96.4		130	
13C-2,3,4,7,8-Cl5DF %REC	150		120		125		147		105		140	
13C-1,2,3,4,7,8-Cl6DF %REC	146		122		137		149		98.9		131	
13C-1,2,3,6,7,8-Cl6DF %REC	144		121		134		147		96.9		129	
13C-1,2,3,7,8,9-Cl6DF %REC	128		106		105		120		92.8		126	
13C-2,3,4,6,7,8-Cl6DF %REC	157		131		137		158		114		145	
13C-1,2,3,4,6,7,8-Cl7DF %REC	145		109		99.0		130		86.7		120	
13C-1,2,3,4,7,8,9-Cl7DF %REC	131		100		78.1		104		74.7		121	
13C-PCB-77 %REC												
13C-PCB-126 %REC												
13C-PCB-169 %REC												
WHO-TEQ (2005) PCB-TEQ(4 PCBs) - Soil/Ash	13.40		2.01		2.84		272.78		11.29		55.16	

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Duane White **QA/QC** ECL: AY01120, AY01120d, AY01121, AY01122, AY01123, AY01124, AY01125, AY(
collector's phone: 916.255.3585 Report Date: #####
sampling site: Roseburg Lumber Mill

HML-NUMBER :	Method Blank		AY01211						AY01120		AY01120d	
COLLECTOR'S NUMBER			WMS-01		WMS-01		WMS-01		BFBU-1-0		BFBU-1-0	
MATRIX	solvent		Reference Sediment		Reference Sediment		Reference Sediment					
MOISTURE CONTENT												
FAT %			Measured Value		Certified Value		Range		2.001		2.0004	
UNITS	pg		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)					
2,3,7,8-Cl4DD	0.27	I	19.1		17.7		12.10 - 23.30		0.81	I	0.93	
1,2,3,7,8-Cl5DD	1.50	I	14.9		7.96		5.16 - 10.76		3.89		3.63	
1,2,3,4,7,8-Cl6DD	0.39	I	6.65		8.66		5.96- 11.36		5.44		4.75	
1,2,3,6,7,8-Cl6DD	0.77	I	28.3		20.8		16.00 - 25.6		12.4		16.0	
1,2,3,7,8,9-Cl6DD	0.77	I	12.7		17.3		9.30 - 25.3		7.17		9.39	
1,2,3,4,6,7,8-Cl7DD	1.83	I	375		293		230 - 356		323		381	
1,2,3,4,6,7,8,9-Cl8DD	6.50	I	2490		1900		1443 - 2355		2370		2560	
2,3,7,8-Cl4DF	0.59	I	260		52.5		36.5 - 68.5		2.93		3.41	
1,2,3,7,8-Cl5DF	0.99	I	15.2		12.6		7.6 - 17.6		0.72	I	0.13	I
2,3,4,7,8-Cl5DF	1.95	I	22.8		18.5		12.4 - 24.6		0.56	I	1.05	
1,2,3,4,7,8-Cl6DF	0.65	I	75.4		67.3		43.3 - 91.3		1.72	I	2.53	
1,2,3,6,7,8-Cl6DF	0.66	I	26.0		20.3		11.6 - 29.0		1.17	I	2.84	
1,2,3,7,8,9-Cl6DF	2.29	I	3.48		2.68		0 - 6.68		1.88	I	0.97	
2,3,4,6,7,8-Cl6DF	0.47	I	18.4		16		8.00 - 24.2		2.75	I	3.53	
1,2,3,4,6,7,8-Cl7DF	1.58	I	365		299		226 - 372		98.2		142	
1,2,3,4,7,8,9-Cl7DF	0.93	ND	19.6		15.1		10.5 - 18.7		2.02	I	4.91	
1,2,3,4,6,7,8,9-Cl8DF	11.5	I	582		509		352 - 666		65.6		122	
PCB-77												
PCB-81												
PCB-126												
PCB-169												
Cl4DD	2.35		33.0		60.1		35.1 - 85.1		0.54		1.86	
Cl5DD	26.9		24.5		69.5		46.5 - 92.5		1.38		2.34	
Cl6DD	3.54		209		238		152 - 324		64.7		103	
Cl7DD	10.3		853		608		456 - 760		639		730	
Cl4DF	41.8		361		374		212 - 536		56.2		27.2	
Cl5DF	8.25		252		225		112 - 338		26.8		24.2	
Cl6DF	6.36		365		262		167 - 357		95.1		125	
Cl7DF	5.73		471		411		311 - 511		212		322	
13C-2,3,7,8-Cl4DD %REC	116		109						128		128	
13C-1,2,3,7,8-Cl5DD %REC	132		109						145		151	
13C-1,2,3,4,7,8-Cl6DD %REC	160		136						165		178	
13C-1,2,3,6,7,8-Cl6DD %REC	159		125						162		167	
13C-1,2,3,4,6,7,8-Cl7DD %REC	136		98.4						150		165	
13C-1,2,3,4,6,7,8,9-Cl8DD %REC	98.9		65.2						110		125	
13C-2,3,7,8-Cl4DF %REC	127		122						143		140	
13C-1,2,3,7,8-Cl5DF %REC	123		111						141		146	
13C-2,3,4,7,8-Cl5DF %REC	146		124						150		155	
13C-1,2,3,4,7,8-Cl6DF %REC	140		124						146		156	
13C-1,2,3,6,7,8-Cl6DF %REC	141		131						144		157	
13C-1,2,3,7,8,9-Cl6DF %REC	125		105						128		137	
13C-2,3,4,6,7,8-Cl6DF %REC	154		131						157		165	
13C-1,2,3,4,6,7,8-Cl7DF %REC	136		104						145		160	
13C-1,2,3,4,7,8,9-Cl7DF %REC	121		86						131		147	
13C-PCB-77 %REC												
13C-PCB-126 %REC												
13C-PCB-169 %REC												
WHO-TEQ (2005) PCB-TEQ(4 PCBs)	3.083											

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Duane White
collector's phone: 916.255.3585 Report Date: 3/5/2015
sampling site: Roseburg Lumber Mil

ECL: AY01120, AY01120d, AY01121, AY01122, AY01123, AY(

HML-NUMBER :	AY01120		AY01121		AY01122		AY01123		AY01124		AY01125	
COLLECTOR'S NUMBER	BFBU-1-0		BFBU-1-2.5		BFBU-1-4		BFBU-2-0		BFBU-2-2.5		BFBU-2-3	
MATRIX	soil		soil		soil		soil		soil		soil	
MOISTURE CONTENT												
WEIGHT	2.00		2.00		2.00		2.00		2.0011		2.0063	
UNITS	Ratio		Ratio		Ratio		Ratio		Rato		Ratio	
2,3,7,8-Cl4DD	6.13	I,D	1.78	I,B	1.67	I,B	5.67	I,D	4.79	I,D	5.75	I,D
1,2,3,7,8-Cl5DD	5.20	D	1.47	I,B	1.01	B	23.4		1.25	I,B	13.2	
1,2,3,4,7,8-Cl6DD	28.0		1.96	I,B	2.46	I,B	120		64.5	I	38.2	
1,2,3,6,7,8-Cl6DD	32.2		0.47	I,B	3.71	I,D	718		32.6		137	
1,2,3,7,8,9-Cl6DD	18.6		1.68	I,B	4.33	I,D	139		3.35	I,D	59.3	
1,2,3,4,6,7,8-Cl7DD	352		13.1		36.2		6023		229		894	
1,2,3,4,6,7,8,9-Cl8DD	730		10.8		58.5		12974		499		1831	
2,3,7,8-Cl4DF	10.0		0.85	B	3.35	D	241		15.18		99.2	
1,2,3,7,8-Cl5DF	1.46	I,B	1.36	B	3.48	I,D	8.79	D	0.77	I,B	7.77	D
2,3,4,7,8-Cl5DF	0.57	I,B	0.50	I,B	1.38	B	61.4		0.57	I,B	6.17	D
1,2,3,4,7,8-Cl6DF	5.28	I,D	2.25	I,B	6.82	I,D	248		8.91	I,D	47.5	
1,2,3,6,7,8-Cl6DF	3.53	I,D	1.48	B	2.32	I,B	173.01		8.84	I,D	44.9	
1,2,3,7,8,9-Cl6DF	1.64	I,B	0.34	I,B	0.64	ND	13.7		2.10	B	3.52	D
2,3,4,6,7,8-Cl6DF	11.8	I	1.85	I,B	7.73	I,D	411		24.2		98.2	
1,2,3,4,6,7,8-Cl7DF	124		1.70	B	2.67	B	12115		303		1951	
1,2,3,4,7,8,9-Cl7DF	4.35	I,D	2.16	B	4.88	I,D	428		6.52	I,D	25.4	
1,2,3,4,6,7,8,9-Cl8DF	11.4		1.49	I	3.04	I,D	2028		34.5		153	
PCB-77												
PCB-81												
PCB-126												
PCB-169												
Cl4DD												
Cl5DD												
Cl6DD												
Cl7DD												
Cl4DF												
Cl5DF												
Cl6DF												
Cl7DF												
13C-2,3,7,8-Cl4DD %REC												
13C-1,2,3,7,8-Cl5DD %REC												
13C-1,2,3,4,7,8-Cl6DD %REC												
13C-1,2,3,6,7,8-Cl6DD %REC												
13C-1,2,3,4,6,7,8-Cl7DD %REC												
13C-1,2,3,4,6,7,8,9-Cl8DD %REC												
13C-2,3,7,8-Cl4DF %REC												
13C-1,2,3,7,8-Cl5DF %REC												
13C-2,3,4,7,8-Cl5DF %REC												
13C-1,2,3,4,7,8-Cl6DF %REC												
13C-1,2,3,6,7,8-Cl6DF %REC												
13C-1,2,3,7,8,9-Cl6DF %REC												
13C-2,3,4,6,7,8-Cl6DF %REC												
13C-1,2,3,4,6,7,8-Cl7DF %REC												
13C-1,2,3,4,7,8,9-Cl7DF %REC												
13C-PCB-77 %REC												
13C-PCB-126 %REC												
13C-PCB-169 %REC												
WHO-TEQ (2005) PCB-TEQ(4 PCBs)												

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY
700 HEINZ AVE SUITE 100, BERKELEY, 94710
Tel. 510-540-3003 FAX 510-540-2305

DIOXIN/FURAN REPORT

Sample Nos:	AY01126, AY01127, AY01128, AY01129, AY01130, AY01131, AY01131D, AY01212
Collector Nos:	BFBU-3-0, BFBU-3-2.5, BFBU-4-0, BFBU-4-2.5, BFBU-4-3.5, Dup-7, Dup-7d, WMS-01
Sample type	soil
Sample Location	Roseburg Lumber Mill
Procedure	ECL880/EPA-1613
Run:	14EC0036_roseberg_lumber_mill
Instrument	DFS-III
Blank File	14EC0036_roseberg_lumber_mill_methblnk_02
GC Parameter File:	1613b_070213
MS Parameter File:	1613_ptk_60MDIOXIN2_MODIFIED_060213
Autosampler File:	1613B_070213
Comments:	

SAMPLE PREP:	Roshni Sarala	Signature: Rosh	Date: 03/05/15
SAMPLE PREP:	Darcy Tarrant	Signature: D Tarrant	Date: 03/09/15
GC/MS ANALYST:	Joginder Dhaliwal	Signature: JS Dhaliwal	Date: 03/05/15
REVIEWING ANALYST:	Reber Brown	Signature: Peter Brown	Date: 03/05/15
SUPERVISOR:	June-Soo Park	Signature: June-Soo Park	Date: 03/09/15

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Duate White
collector's phone: 916.255.3585 Report Date: 3/5/2015
sampling site: Roseburg Lumber Mil

ECL: AY01126, AY01127, AY01128, AY01129, AY01130, AY01

HML-NUMBER :	AY01126		AY01127		AY01128		AY01129		AY01130		AY01131	
COLLECTOR'S NUMBER	BFBU-3-0		BFBU-3-2.5		BFBU-4-0		BFBU-4-2.5		BFBU-4-3.5		Dup-7	
MATRIX	Soil		Soil		Soil		Soil		Soil		Soil	
MOISTURE CONTENT												
FAT %	N/A		N/A		N/A		N/A		N/A		N/A	
UNITS	pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)	
2,3,7,8-Cl4DD	1.49	D	0.22	I,B	2.79	D	0.32	I,B	0.08	ND	0.15	I,B
1,2,3,7,8-Cl5DD	18.8		3.79	D	23.8		1.52	I,B	0.70	I,B	2.80	D
1,2,3,4,7,8-Cl6DD	21.9		2.68	D	17.1		0.95	B	0.93	I,B	1.65	D
1,2,3,6,7,8-Cl6DD	179		20.5		127		3.31	D	6.13	D	20.1	
1,2,3,7,8,9-Cl6DD	68.6		5.72		68.9		2.24	D	2.89	D	8.72	
1,2,3,4,6,7,8-Cl7DD	2740		479		1260		46.8		64.4		302	
1,2,3,4,6,7,8,9-Cl8DD	27900		5100		5636		244		352		2430	
2,3,7,8-Cl4DF	107		5.58		17.7		0.63	I,B	0.84	B	6.67	
1,2,3,7,8-Cl5DF	8.45	D	3.22	B	3.92	B	0.57	I,B	0.80	B	0.88	I,B
2,3,4,7,8-Cl5DF	11.3		4.05	D	4.72	D	0.22	I,B	0.37	I,B	2.75	I,D
1,2,3,4,7,8-Cl6DF	41.1		7.84		23.2		1.00	I,B	1.78	I,D	5.46	
1,2,3,6,7,8-Cl6DF	33.1		5.63	D	24.2		1.19	B	1.51	I,B	3.75	D
1,2,3,7,8,9-Cl6DF	11.8		1.70	I,D	7.01		1.31	I,B	0.61	I,B	2.31	D
2,3,4,6,7,8-Cl6DF	45.5		11.3		38.9		1.23	B	1.91	I,B	5.59	D
1,2,3,4,6,7,8-Cl7DF	2299		303		2720		90.8		163		288	
1,2,3,4,7,8,9-Cl7DF	36.2		4.44	D	15.1		0.71	ND	1.63	I,B	3.23	D
1,2,3,4,6,7,8,9-Cl8DF	1770		372		1360		37.3	D	76.7	D	151	
PCB-77												
PCB-81												
PCB-126												
PCB-169												
Cl4DD	23.8		3.51		48.8		8.99		0.99		9.52	
Cl5DD	70.7		7.30		203		0.60		0.52		4.12	
Cl6DD	966		130		886		7.27		36.2		100	
Cl7DD	5970		1172		2350		47		64.4		588	
Cl4DF	314		66.8		53.2		28.0		18.3		22.3	
Cl5DF	434		32.4		154		2.48		8.33		49.0	
Cl6DF	2060		272		1330		56		81.2		259	
Cl7DF	4800		722		4930		165		280		558	
13C-2,3,7,8-Cl4DD %REC	93.1		137		114		118		135		114	
13C-1,2,3,7,8-Cl5DD %REC	113		169		150		153		167		134	
13C-1,2,3,4,7,8-Cl6DD %REC	133		184		147		142		161		142	
13C-1,2,3,6,7,8-Cl6DD %REC	128		177		143		139		153		135	
13C-1,2,3,4,6,7,8-Cl7DD %REC	151		176		152		148		154		147	
13C-1,2,3,4,6,7,8,9-Cl8DD %REC	144		154		137		131		133		169	
13C-2,3,7,8-Cl4DF %REC	90.6		161		134		134		157		120	
13C-1,2,3,7,8-Cl5DF %REC	109		163		144		144		163		134	
13C-2,3,4,7,8-Cl5DF %REC	114		187		151		162		183		144	
13C-1,2,3,4,7,8-Cl6DF %REC	123		162		130		131		144		124	
13C-1,2,3,6,7,8-Cl6DF %REC	120		163		132		132		145		126	
13C-1,2,3,7,8,9-Cl6DF %REC	112		144		124		122		133		120	
13C-2,3,4,6,7,8-Cl6DF %REC	130		174		144		142		157		138	
13C-1,2,3,4,6,7,8-Cl7DF %REC	140		168		148		138		148		145	
13C-1,2,3,4,7,8,9-Cl7DF %REC	141		175		153		140		156		152	
13C-PCB-77 %REC												
13C-PCB-126 %REC												
13C-PCB-169 %REC												
WHO-TEQ (2005) PCB-TEQ(4 PCBs) - Soil/Ash	134.35		20.93		102.51		4.58		4.95		15.93	

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Duate White **QA/QC** ECL: AY01126, AY01127, AY01128, AY01129, AY01130, AY01131, AY01131D, AY
collector's phone: 916.255.3585 Report Date: #####
sampling site: Roseburg Lumber Mill

HML-NUMBER :	Method Blank		AY01212						AY0131		AY01131d	
COLLECTOR'S NUMBER			WMS-01		WMS-01		WMS-01		BFBU-4-3.5		Dup-7	
MATRIX	solvent		Reference Sediment		Reference Sedi		Reference Sediment		Soil		Soil	
MOISTURE CONTENT												
FAT %			Measured Value		Certified Value		Range					
UNITS	pg		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)					
2,3,7,8-Cl4DD	0.71	I	18.2		17.7		12.10 - 23.30		0.08	ND	0.96	I
1,2,3,7,8-Cl5DD	1.81	I	11.7		7.96		5.16 - 10.76		0.70	I,B	3.22	
1,2,3,4,7,8-Cl6DD	0.98	I	8.89		8.66		5.96- 11.36		0.93	I,B	3.03	
1,2,3,6,7,8-Cl6DD	1.94		22.9		20.8		16.00 - 25.6		6.13	D	20.3	
1,2,3,7,8,9-Cl6DD	0.63	I	12.1		17.3		9.30 - 25.3		2.89	D	6.24	
1,2,3,4,6,7,8-Cl7DD	3.03	I	287		293		230 - 356		64.4		266	
1,2,3,4,6,7,8,9-Cl8DD	1.64	I	1990		1900		1443 - 2355		352		2280	
2,3,7,8-Cl4DF	0.79		210		52.5		36.5 - 68.5		0.84	B	6.51	
1,2,3,7,8-Cl5DF	2.84	I	13.3		12.6		7.6 - 17.6		0.80	B	1.51	I
2,3,4,7,8-Cl5DF	1.20	I	18.9		18.5		12.4 - 24.6		0.37	I,B	1.53	I
1,2,3,4,7,8-Cl6DF	0.82		62.3		67.3		43.3 - 91.3		1.78	I,D	4.10	
1,2,3,6,7,8-Cl6DF	1.48	I	19.5		20.3		11.6 - 29.0		1.51	I,B	2.41	I
1,2,3,7,8,9-Cl6DF	1.08	I	15.2		2.68		0 - 6.68		0.61	I,B	2.46	I
2,3,4,6,7,8-Cl6DF	1.96	I	18.1		16		8.00 - 24.2		1.91	I,B	2.90	I
1,2,3,4,6,7,8-Cl7DF	3.00	I	282		299		226 - 372		163		267	
1,2,3,4,7,8,9-Cl7DF	1.60	I	21.4		15.1		10.5 - 18.7		1.63	I,B	1.46	
1,2,3,4,6,7,8,9-Cl8DF	15.6	I	434		509		352 - 666		76.7	D	123	
PCB-77												
PCB-81												
PCB-126												
PCB-169												
Cl4DD	17.4		20.1		60.1		35.1 - 85.1		0.99		0.52	
Cl5DD	59.3		38.5		69.5		46.5 - 92.5		0.52		4.13	
Cl6DD	18.6		200		238		152 - 324		36.2		86.8	
Cl7DD	73.1		643		608		456 - 760		64.4		559	
Cl4DF	150		414		374		212 - 536		18.3		21.7	
Cl5DF	14.6		307		225		112 - 338		8.33		45.2	
Cl6DF	34.0		269		262		167 - 357		81.2		253	
Cl7DF	24.2		379		411		311 - 511		280		529	
13C-2,3,7,8-Cl4DD %REC	131		125						135		111	
13C-1,2,3,7,8-Cl5DD %REC	152		161						167		142	
13C-1,2,3,4,7,8-Cl6DD %REC	163		166						161		157	
13C-1,2,3,6,7,8-Cl6DD %REC	154		152						153		151	
13C-1,2,3,4,6,7,8-Cl7DD %REC	159		137						154		162	
13C-1,2,3,4,6,7,8,9-Cl8DD %REC	139		99						133		146	
13C-2,3,7,8-Cl4DF %REC	143		140						157		130	
13C-1,2,3,7,8-Cl5DF %REC	147		154						163		138	
13C-2,3,4,7,8-Cl5DF %REC	165		172						183		148	
13C-1,2,3,4,7,8-Cl6DF %REC	141		148						144		150	
13C-1,2,3,6,7,8-Cl6DF %REC	140		154						145		151	
13C-1,2,3,7,8,9-Cl6DF %REC	123		122						133		134	
13C-2,3,4,6,7,8-Cl6DF %REC	155		158						157		158	
13C-1,2,3,4,6,7,8-Cl7DF %REC	149		135						148		158	
13C-1,2,3,4,7,8,9-Cl7DF %REC	146		115						156		158	
13C-PCB-77 %REC												
13C-PCB-126 %REC												
13C-PCB-169 %REC												
WHO-TEQ (2005) PCB-TEQ(4 PCBs)	4.014											

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Duate White ECL: AY01126, AY01127, AY01128, AY01129, AY01130, AY0
collector's phone: 916.255.3585 Report Date: 3/5/2015
sampling site: Roseburg Lumber Mil

HML-NUMBER :	AY01126		AY01127		AY01128		AY01129		AY01130		AY01131	
COLLECTOR'S NUMBER	BFBU-3-0		BFBU-3-2.5		BFBU-4-0		BFBU-4-2.5		BFBU-4-3.5		Dup-7	
MATRIX	Soil		Soil		Soil		Soil		Soil		Soil	
MOISTURE CONTENT												
WEIGHT	2.00		2.00		2.00		2.01		2.00		2.00	
UNITS	Ratio		Ratio		Ratio		Ratio		Rato		Ratio	
2,3,7,8-Cl4DD	4.20	D	0.64	I,B	7.90	D	0.90	I,B	0.23	ND	0.42	I,B
1,2,3,7,8-Cl5DD	20.7		4.18	D	26.2		1.68	I,B	0.77	I,B	3.09	D
1,2,3,4,7,8-Cl6DD	44.8		5.48	D	35.0		1.95	B	1.90	I,B	3.39	D
1,2,3,6,7,8-Cl6DD	185		21.2		131		3.43	D	6.34	D	20.7	
1,2,3,7,8,9-Cl6DD	218		18.2		219		7.14	D	9.19	D	27.7	
1,2,3,4,6,7,8-Cl7DD	1806		316		831		30.9		42.5		199	
1,2,3,4,6,7,8,9-Cl8DD	33976		6210		6863		298		429		2959	
2,3,7,8-Cl4DF	271		14.2		44.8		1.61	I,B	2.13	B	16.9	
1,2,3,7,8-Cl5DF	5.95	D	2.27	B	2.76	B	0.40	I,B	0.56	B	0.62	I,B
2,3,4,7,8-Cl5DF	18.8		6.77	D	7.89	D	0.37	I,B	0.61	I,B	4.59	I,D
1,2,3,4,7,8-Cl6DF	100		19.2		56.6		2.46	I,B	4.37	I,D	13.4	
1,2,3,6,7,8-Cl6DF	44.7		7.61	D	32.7		1.61	B	2.04	I,B	5.06	D
1,2,3,7,8,9-Cl6DF	21.9		3.14	I,D	12.9		2.43	I,B	1.13	I,B	4.28	D
2,3,4,6,7,8-Cl6DF	46.5		11.6		39.7		1.26	B	1.96	I,B	5.71	D
1,2,3,4,6,7,8-Cl7DF	1530		202		1811		60.6		108		192	
1,2,3,4,7,8,9-Cl7DF	45.4		5.56	D	18.9		0.89	ND	2.04	I,B	4.04	D
1,2,3,4,6,7,8,9-Cl8DF	227		47.8		175		4.80	D	9.86	D	19.4	
PCB-77												
PCB-81												
PCB-126												
PCB-169												
Cl4DD												
Cl5DD												
Cl6DD												
Cl7DD												
Cl4DF												
Cl5DF												
Cl6DF												
Cl7DF												
13C-2,3,7,8-Cl4DD %REC												
13C-1,2,3,7,8-Cl5DD %REC												
13C-1,2,3,4,7,8-Cl6DD %REC												
13C-1,2,3,6,7,8-Cl6DD %REC												
13C-1,2,3,4,6,7,8-Cl7DD %REC												
13C-1,2,3,4,6,7,8,9-Cl8DD %REC												
13C-2,3,7,8-Cl4DF %REC												
13C-1,2,3,7,8-Cl5DF %REC												
13C-2,3,4,7,8-Cl5DF %REC												
13C-1,2,3,4,7,8-Cl6DF %REC												
13C-1,2,3,6,7,8-Cl6DF %REC												
13C-1,2,3,7,8,9-Cl6DF %REC												
13C-2,3,4,6,7,8-Cl6DF %REC												
13C-1,2,3,4,6,7,8-Cl7DF %REC												
13C-1,2,3,4,7,8,9-Cl7DF %REC												
13C-PCB-77 %REC												
13C-PCB-126 %REC												
13C-PCB-169 %REC												
WHO-TEQ (2005) PCB-TEQ(4 PCBs)												

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL]=Interference B=Upper Limit

PATH