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Mills College 5000 MacArthur Blvd. Oakland, CA 94613 www.mills.edu



Ms. Barbara Jacob Alameda County Health Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

RE: Soil and Groundwater Investigation Mills College 5000 MacArthur Blvd. Oakland, California

Dear Ms. Jacob,

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,

Tick a. Zetyn

Linda A. Zitznor AVP Facilities, Auxiliaries, and Campus Planning Off: 510-430-2024 Fax: 510-430-2306 Izitzner@mills.edu December 19, 2012



Ms. Barbara Jacob Alameda County Health Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

RE: Soil and Groundwater Investigation Mills College 5000 MacArthur Boulevard Oakland, California December, 19, 2012 Project 411-01.01

Dear Ms. Jacob,

EquoLogic, on behalf of Mills College, has prepared the following soil and groundwater investigation report (Figure 1). The work is that presented in EquoLogic's work plan dated April 13, 2012.

BACKGROUND

Two underground fuel storage tanks (USTs) were formerly located at Mills College. In October 1988, a 1,000-gallon fuel UST was removed from the College maintenance yard (**Figure 2**). Strong gasoline odors were reported present in excavated soil. In order to define the vertical extent of contamination, the tank pit was extended to a depth of approximately 21 feet below grade. The soil at 21 feet still was reported to have a strong gasoline odor. Soil samples were collected from within the excavation to a depth of 21 feet below grade. Total petroleum hydrocarbons (TPH) ranged from 16,327 milligrams per kilogram (mg/kg) at 9 feet below grade to less than 10 mg/kg at 21 feet at the western end of the excavation.

Subsequently, three groundwater monitoring wells (MW-1 through MW-3, **Figure 2**) were installed adjacent to the former tank pit. TPH as gasoline (TPH-G) was reported in soil samples only from the boring for well MW-1. TPH-G was detected at concentrations ranging from 520 mg/kg at 11 feet to 15

Barry Lane, Monte Sereno, California 95030 www. EquoLogicGroup.com

mg/kg at 21 feet. Two additional borings (EB-1 and EB-2, **Figure 2**) were drilled adjacent to the former tank pit. TPH-G was reported only in the soil samples from boring EB-2. TPH-G was detected in the 16-foot sample from EB-2 at 1,200 mg/kg with benzene reported at 21.0 mg/kg. A soil analytical summary table by Kaldveer Associates is provided in **Attachment A**.

Wells MW-1 through MW-3 were last sampled in January 2000. TPH-G were only detected in the water sample from well MW-1 at 11.0 parts per million (ppm). Benzene was reported in the water samples from the three wells at 0.17, 0.7, and 0.0031 ppm, respectively.

In 1989, a small capacity, fuel oil UST was removed from the parking lot of the former Mills kitchen building. This area is now developed as an open lawn and landscaped area referred to as Toyon Meadow (currently Holmgren Meadows) (Figure 3). Soil samples from the base of the excavation (10 to 13 feet below grade) contained total petroleum hydrocarbons as diesel (TPH-D) at concentrations ranging from 260 mg/kg to 5,000 mg/kg. Soil samples were collected from eleven borings (B-1 through B-11, Figure 3) located west (downgradient) of the tank excavation. TPH-D was reported at a maximum concentration of 11,000 mg/kg at 14 feet below grade in boring B-8 (see table in Attachment A). Three groundwater monitoring wells were installed (MW-1 through MW-3, Figure 3). During the last monitoring event in 1995, wells contained a maximum concentration of 400 ppm TPH-D.

HYROGEOLOGIC CONDITIONS

Borings in the maintenance yard encountered approximately 5 feet of sandy clay and silty sand overlying weathered bedrock. Groundwater was first encountered in boring EB-2 at 25 feet below grade. Depth to groundwater in wells MW-1 through MW-3 in January 2000 was approximately 18 feet below top of casing. Groundwater flow was to the southwest.

Borings in Toyon Meadow encountered five to seven feet of fill material, underlain by clay to a depth of 10 to 13 feet below grade. Soil beneath the clay consisted of sand and gravel with lenses of clay to the maximum depth explored of 23.5 feet. Groundwater was encountered at a depth of 12 to 13 feet below grade and stabilized in monitoring wells at depths of 10 to 13 feet. Groundwater flow was to the west.

SCOPE OF WORK

The following section describes the work performed for this soil and groundwater investigation.

Maintenance Yard

Task 1 – A boring (EB-3, **Figure 2**) was drill adjacent to former boring EB-2 (**Figure 2**) in order to define the current vertical extent of petroleum hydrocarbons in soil. A drilling permit was obtained from Alameda County Public Works prior to commencing field work (**Attachment B**). An underground utility

survey was performed prior to field work in order to avoid damage to any subsurface lines during soil borings. Hollow-stem drilling equipment was used to collect soil samples at depths of 5, 10, 15, 20, and 25, below ground surface (bgs). Auger refusal was found at 26.6 feet bgs. Samples were collected using a California modified split spoon sampler equipped with clean 6-inch brass liners. After sample collection, the liners containing the soil were sealed with Teflon sheets and tight-fitting plastic caps and placed on ice for transport to the laboratory.

The soil boring was logged by a California licensed geologist. The boring log is contained in **Attachment C**. The boring encountered weathered, fractured, bedrock (siltstone). A slight petroleum hydrocarbon odor was first noted in soil at a depth of approximately 15 feet bgs. A strong odor was noted at 17 feet bgs diminishing to no odor at 25 feet bgs. Groundwater was encountered at a depth of approximately 26 feet bgs. After collection of the soil samples, the boring was backfilled with cement grout. Soil cuttings were placed in a sealed 55-gallon drum for off-site disposal.

Soil samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX), 1,2-dibromoethane, 1,2-dichloroethane, five fuel oxygenates including methyl tert-butyl ether (MTBE), naphthalene, and total petroleum hydrocarbons as gasoline (C6-10). Elevated petroleum hydrocarbons were detected in the soil sample from a depth of 20 feet bgs. Benzene was reported at 3,460 micrograms per kilogram (ug/kg)(parts per billion) along with naphthalene at 2,490 ug/kg. See a summary of soil analytical results on **Table 1**. Laboratory analytical reports are contained in **Attachment D**.

A groundwater sample could not be collected from boring EB-3 due to lack of water in the borehole.

Task 2 –A groundwater sample was collected from wells MW-1 through MW-3 located adjacent to the former UST excavation. The wells were purged of three casing volumes prior to sampling with a clean Teflon bailer. Water sampling field data sheets are contained in **Attachment E**. Depth to groundwater in wells ranged from 19.21 to 19.40 feet bgs. A flow direction to the west was calculated (see **Figure 4**). The water samples were decanted into 40 milliliter glass vials with chemical preservative. The groundwater samples were stored in an ice chest for shipment to a California certified laboratory.

Soil samples were analyzed BTEX, 1,2-Dibromoethane, 1,2-dichloroethane, five fuel oxygenates including MTBE, naphthalene, and total petroleum hydrocarbons as gasoline (C6-10). Petroleum hydrocarbons were detected only in well MW-1 at low concentrations (**Table 2**). TPH-G was reported at 0.036 milligrams per kilogram (mg/kg) (parts per million) and benzene at 1.7 ug/l. Naphthalene was reported at <0.50 ug/l. Laboratory analytical reports are contained in **Attachment D**.

Task 3 – ACEHSA has requested information regarding a water supply well supposedly located near the corporation yard. EquoLogic has contacted the California Department of Water Resources (DWR) and requested well information for Mills College. Results will be submitted in a separate report.

Toyon Meadow (Holgren Meadow)

Task 1 – Two soil borings (B-12 and B-13, **Figure 3**) were drilled to define the current vertical extent of petroleum hydrocarbons in soil and groundwater. Boring B-12 was drilled adjacent to the location of the former UST. Boring B-13 was drilled adjacent to former boring B-8 where the highest concentrations of petroleum hydrocarbons were previously detected in 1989. Borings were drilled to depths of approximately 29 feet and 22 feet, respectively, using direct push drilling equipment. Soil samples were collected at 5-foot depth intervals using a sampler equipped with 3-foot long acetate liners.

Borings encountered a mixture of clay, clayey sand, and clayey gravel. Boring logs are contained in Attachment C. Groundwater was encountered in boring B-12 at 17 feet and in boring B-13 at 11 feet bgs. Soil and groundwater was collected from both borings and analyzed for BTEX, 1,2-dibromoethane, 1,2-dichloroethane, five fuel oxygenates including MTBE, naphthalene, and total petroleum hydrocarbons as diesel (C10-28)(TPH-D). Elevated concentrations of naphthalene and TPH-D were reported for the 15-foot soil sample from boring B-13. Naphthalene was reported at 2,910 ug/kg and TPH-d at 1,400 mg/kg. Soil analytical data is summarized on **Table 1**. Laboratory analytical reports are contained in **Attachment D**. Benzene was below the method detection limit in groundwater samples from borings B-12 and B-13. Naphthalene was detected in the water sample from B-13 at 18 ug/l. TPH-D was detected at 9.46 ug/l in boring B-13.

Task 2 - A groundwater sample were collected from wells MW-1 through MW-3 located in the area of Toyon/Holmgren Meadow. The wells were purged of three casing volumes prior to sampling with a clean Teflon bailer. Field sampling data sheets are contained in **Attachment E**. Depth to groundwater in wells ranged from 10.83 to 13.75 feet bgs. A flow direction to the north was calculated (see **Figure 5**). The groundwater samples were stored in an ice chest for shipment to a California certified laboratory. Groundwater samples were analyzed for BTEX, 1,2-dibromoethane, 1,2-dichloroethane, five fuel oxygenates including MTBE, naphthalene, and total petroleum hydrocarbons as diesel (C10-28)(TPH-D).

Petroleum hydrocarbons were only detected in well MW-1. TPH-D was detected at the very low concentrations of 0.115 mg/kg. Groundwater analytical data is summarized on **Table 2**. Laboratory analytical reports are contained in **Attachment D**.

CONCLUSIONS AND RECOMMENDATIONS

EquoLogic presents the following conclusions and recommendations;

- Residual petroleum hydrocarbons remain near the top of the saturated zone in both study areas.
- Concentrations of residual soil petroleum hydrocarbons have significantly been reduced from previous historic highs.
- Residual petroleum hydrocarbons in soil are currently having a minimal impact on groundwater quality in the area of the maintenance yard and Holmgren Meadow. EquoLogic recommends an additional groundwater event in April when water levels are anticipated to be higher and interaction with residual petroleum hydrocarbons is possible.
- Impacts from any soil vapors in Toyon/Holmgren Meadow are deemed to be minimal due to the open landscaped area. Table 1 of the *Low Threat Underground Storage Tank Closure Policy* indicates that soil containing less than 8.2 mg/kg benzene and 45 mg/kg naphthalene in the 5-to 10-foot depth interval poses no significant threat to human health. The maximum benzene and naphthalene concentrations in the 5- to 10-foot depth interval of borings B-12 and B-13 were below the method reporting level.
- Borings EB-2 and EB-3 are located within approximately 15 feet of the maintenance yard building consisting of a warehouse and small office adjacent to the borings. The building is constructed of metal on concrete slab. In the warehouse, open construction, air circulation through doors and windows, mitigate any accumulation of soil vapors.
- Soil vapor risks are also considered be minimal in the small office due to depth to residual petroleum hydrocarbons (bioattenuation zone), small impact area, and generally fine grained soil (silt). The depth to soil impact zones was approximately 15 to 20 feet bgs. Benzene and naphthalene were below the method detection limit in the 5- and 10-foot samples. The maximum TPH-G concentration in the 0 to 10-foot depth interval was 7.8 mg/kg.
- Equologic recommends evaluation of low risk case closure pending the results of the April 2013 groundwater sampling event.

LIMITATIONS

The descriptions, conclusions, and recommendations contained in this report represent EquoLogic's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. For any reports cited that were not generated by

EquoLogic, the data from those reports is used "as is" and is assumed to be accurate. This report is based upon a specific scope of work requested by the client. The Contract between EquoLogic and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were conducted. This report is intended only for the use of EquoLogic's Client and anyone else specifically listed on this report. EquoLogic will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, EquoLogic makes no express or implied warranty as to the contents of this report.

You can contact me at (408) 656-2505 or by email at Idooley@equologicgroup.com.

EE DOOLEY NO. 0183 ERTIFIED

Sincerely,

Lee Dooley Senior Hydrogeologist CHG 183

Attachments

- Table 1 Summary of Soil Analytical Data
- Table 2 Summary of Groundwater Analytical Data
- Figure 1 Site Location Map
- Figure 2 Site Plan of Corporation Yard
- Figure 3 Site Plan of Toyon/Holmgren Meadow
- Figure 4 Groundwater Elevation Contours, Maintanence Yard
- Figure 5 Groundwater Elevation Contours, Toyon/Holmgren Meadow
- Attachment A Historic Soil Analytical Data
- Attachment B Drilling Permit
- Attachment C Boring Logs
- Attachment D Laboratory Analytical Reports
- Attachment E Water Sampling Field Data Sheets

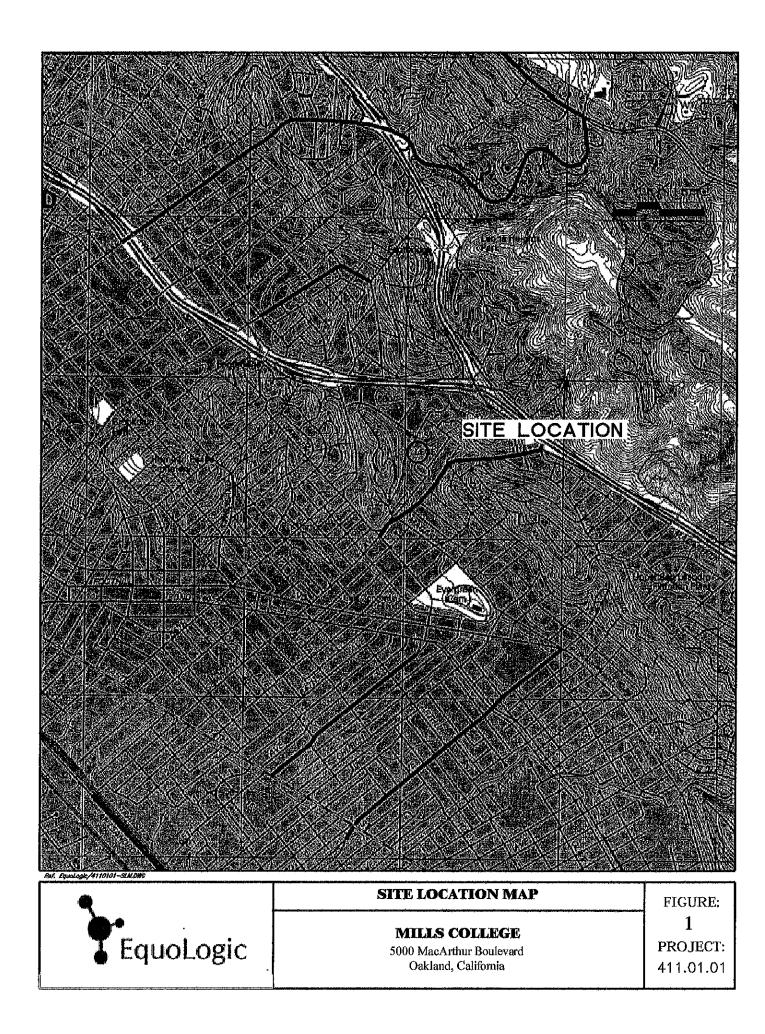
Cc: Linda Zitzner, Mills College, 5000 MacArthur Blvd., Oakland, CA 94613-1301

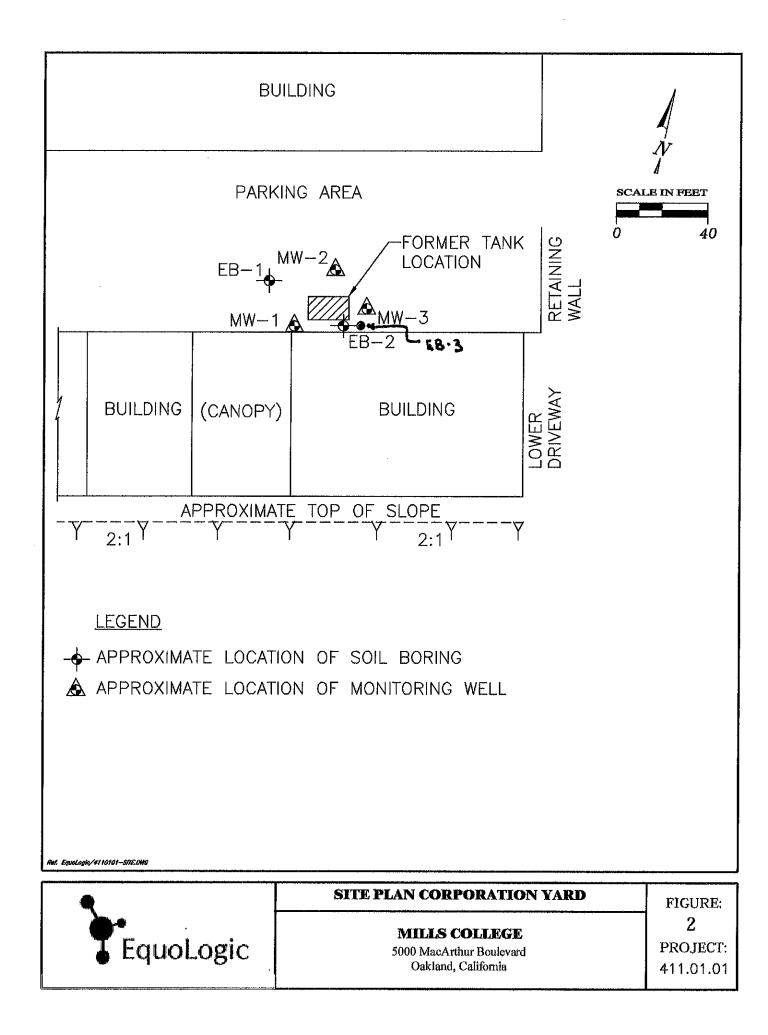
TABLE 1 - SUMMARY OF SOLL ANALYTICAL DATA MILLS COLLEGE

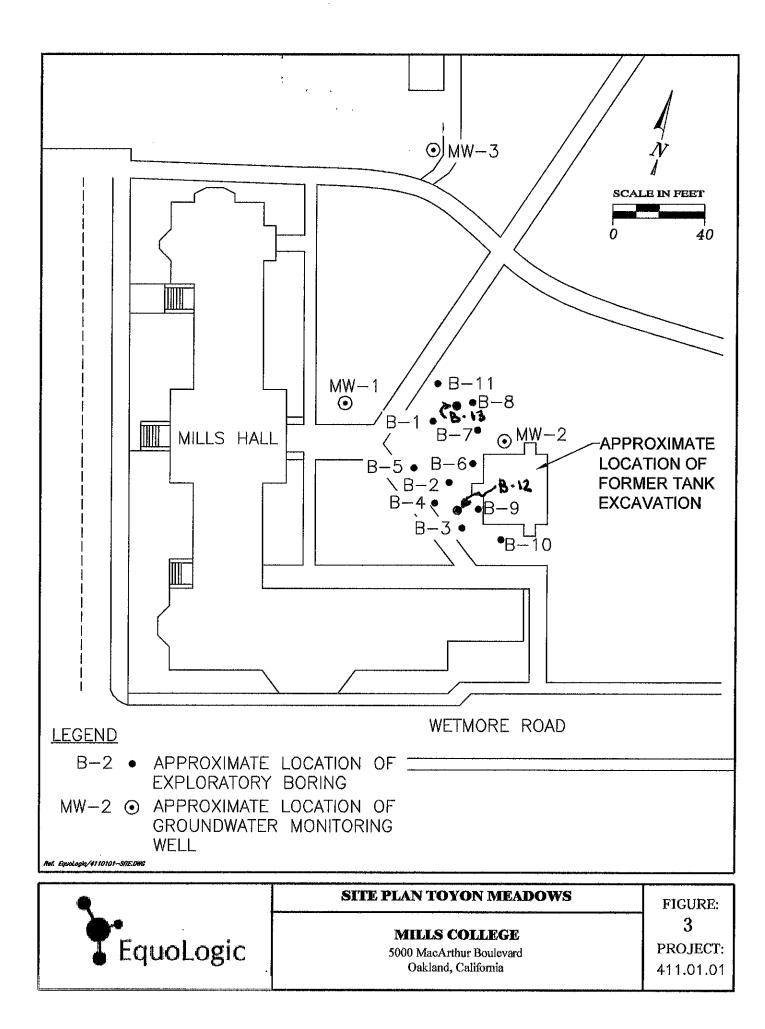
Boring	Depth	Date	В	Т	E	Х	1,2-Dibrm	1,2-Dichlorm	DIPE	ETBE	MTBE	Napth	TAME	ТВА	TPH (C10-28)
	Feet		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	mg/kg
TOYON ME	ADOWS		7												
B-12	5	11/8/2012	<0.49	1.5	<0.49	1.0	<0.49	<0.49	<0.49	<0.49	<0.98	<0.98	<0.49	<0.98	<2.5
B-12	10	11/8/2012	<0.49	0.62	<0.49	<0.98	<0.49	<0.49	<0.49	<0.49	<0.98	<0.98	< 0.49	<9.8	3.17
B-12	15	11/8/2012	<0.48	0.55	<0.48	<0.97	<0.48	<0.48	<0.48	<0.48	<0.97	<0.97	<0.48	<9.7	5.12
B-12	20	11/8/2012	<0.48	<0.48	<0.48	<0.96	<0.48	<0.48	<0.48	<0.48	<0.96	<0.96	<0.48	<9.6	3.6
8-12	25	11/8/2012	<0.48	<0.48	<0.48	< 0.97	<0.48	<0.48	<0.48	<0.48	<0.97	<0.97	<0.48	<9.7	9.3
B-12	29	11/8/2012	<0.48	1.5	<0.48	1.7	<0.48	<0.48	<0.48	<0.48	<0.96	<0.96	<0.48	<9.7	3.01
B-13	5	11/8/2012	<0.50	<0.50	<0.50	<0.99	<0.50	<0.50	<0.50	<0.50	<0.99	<0.99	<0.50	<9.5	4.02
B-13	10	11/8/2012	<0.49	1.5	<0.49	3.1	<0.49	<0.49	<0.49	<0.49	<0.97	<0.97	<0.49	<9.7	7.8
B-13	15	11/8/2012	<170	<170	<170	<340	<170	<170	<170	<170	<340	2910	<170	<3400	1400
B-13	20	11/8/2012	<0.48	<0.48	<0.48	<0.97	<0.48	<0.48	<0.48	<0.48	<0.97	<0.97	<0.48	<9.7	2.85
B-13	22	11/8/2012	<0.49	<0.49	<0.49	<0.98	<0.49	<0.49	<0.49	<0.49	<0.98	2.2	<0.49	<9.8	3.51
MAINTENAI	NCE YARD														TPH (C6-10)
EB-3	6	10/22/2012	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<10.0	<0.050
EB-3	10	10/22/2012	<0.48	<0.48	<0.48	<0.97	<0.48	<0.48	<0.48	<0.48	<0.97	<0.97	<0.48	<9.7	<0.048
EB-3	15	10/22/2012	10.3	<0.50	2.7	5.7	<0.50	<0.50	<0.50	<0.50	<1.0	28.8	<180	27.7	129
EB-3	20	10/22/2012	3460	837	5390	24,800	<180	<180	<180	<180	<350	2490	<180	<3500	352
EB-3	25	10/22/2012	193	27.1	182	659	<19	<19	<19	<19	<37	65.3	<19	<370	10
Notes															
B	Benzene					DIPE	Di-isoproph	/ ether		TPH (C10-2	8)	Total Petr	oleum Hydr	ocarbons	
т	Toluene					ETBE	Ethyl tert-B	utly Ether		•	•		····,-·		
E	Ethylbenz	ene				MTBE	Methyl Ter	: Butyl Ether			199 443 91	Elevated o	oncentratio	กร	
х	Xylene					Napth	Napthalene	-		ala o ber contraction (1923). A	K21				
1,2-Dibrm	1,2-Dibror	noethane				TAME	Tert-Amyl M	/lethyl Ether							
1,2-Dichlorr	n 1,2-Dichic	proethane				TBA	Tert Butyl A	lcohol							

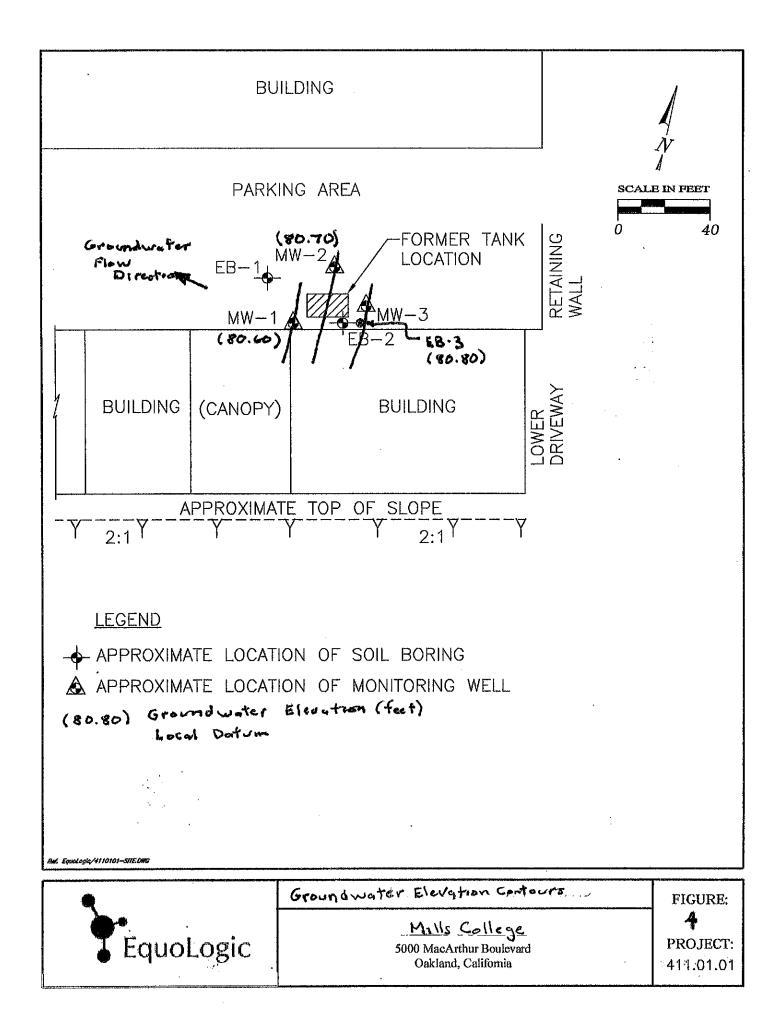
TABLE 2 - SUMMARY OF GROUNDWATER ANALYTICAL DATA MILLS COLLEGE

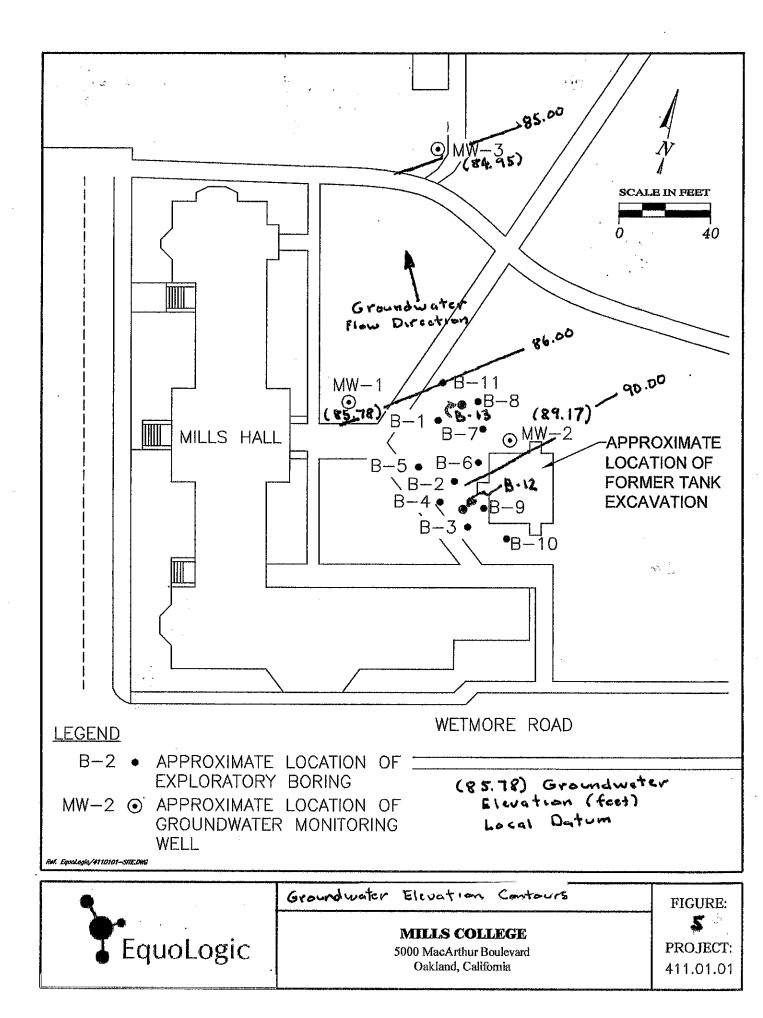
Boring	Date	В	Т	E	Х	1,2-Dibrm	1,2-Dichlorm	DIPE	ETBE	MTBE	Napth	TAME	TBA	TPH (C10-28)
	· ·	ug/l	ug/l	ug/l	ug/l	ug/l	ug/I	ug/l	ug/l	ug/l	ug/l	ug/l	ug/t	mg/l
TOYON MEAD	ows					· · · ·								-
MW-1 M	1 0/19/2 012	<0.20	<0.20	<0.20	<0.46	<0.20	<0.20	<0.22	<0.22	<0.20	<0.50	<0.40	<2.4	0.0333
MW-2 M	10/19/2012	<0.20	<0.20	<0.20	<0.46	<0.20	<0.20	<0.22	<0.22	<0.20	<0.50	<0.40	<2,4	0.115
MW-3 M	10/19/2012	<0.20	<0.20	<0.20	<0.46	<0.20	<0.20	<0.22	<0.22	<0.20	<0.50	<0.40	<2.4	0.0904
B-12	11/8/2012	<0.20	<0.20	<0.20	<0.46	<0.20	<0.20	<0.22	<0.22	<0.20	<0.50	<0.40	<2.4	0.0837
8-13	11/8/2012	<0.20	<0.20	<0.20	<0.46	<0.20	<0.20	<0.22	<0.22	<0.20	18	<0.40	<2.4	9.46
MAINTENANC	ce yard													TPH (C6-10)
MW-1	10/19/2012	1.7	<0.20	0.21	<0.46	<0.20	0.56	<0.22	<0.22	0.32	<0.50	<0.40	<2.4	0.036
MW-2	10/19/2012	<0.20	<0.20	<0.20	<0.46	<0.20	<0.20	<0.22	<0.22	<0.20	<0.50	<0.40	10.9	<0.025
MW-3	10/19/2012	<0.20	<0.20	<0.20	<0.46	<0.20	<0.20	<0.22	<0.22	0:20	<0.50	<0.40	<2.4	<0.025
Notes											<u>,</u>			
В	Benzene				DIPE	Di-isopropl	y ether	-	TPH (C10-28	ŀ	Total Petro	leum Hydro	carbons	
Ŧ	Toluene				ETBE	Ethyl tert-B	=		•	,		,		
E	Ethylbenzene				MTBE	Methyl Ter	t Butyl Ether							
х	Xyłene				Napth	Napthalene	•							
1,2-Dibrm	1,2-Dibromoe	thane			TAME	Tert-Amyl f	Methyl Ether							
1,2-Dichlorm	1,2-Dichloroe	thane			TBA	Tert Butyl A	-							











ATTACHMENT A

Historic Soil Analytical Data

Toyon Meadows

TABLE 1

<u>ANALYTICAL RESULTS - SOIL</u> (reported in parts per million, mg/kg)

Sample Location Number, and Collection Date Petroleum Hydrocarbons as Diesel

June 28, 1989 - Initial Excavation Limit Samples

SS-1, SS-2	480
SS-3, SS-4	1,900

July 17, 1989 - Soil Boring Samples

B1-10'	190
B1-14'	1,600
B2-10'	ND
B2-13.5'	1,800
B3-10'	ND
B3-14'	60
B4-14.5'	1,700
B5-13.5'	640
B6-14'	630
B7-10'	240
B7-14.5'	240
B8-14 '	11,000
B9-13'	250
B10-14.5'	2,700
B11-14 *	16

July 18, 19, 1989 - Additional Excavation Closure Samples

CS1-10'	ND
CS2-13'	5,000
CS3-10'	ND
CS4-12'	260
CS5-10'	ND
CS6-13'	570
CS7-10'	ND
CS8-12'	1,600

August 4 - 7, 1989 - City Sewer Trench Samples, South of Mills Hall

ss-1,	201	ND
SS-2,	20'	ND

June 4. 1991 - Soil Samples Collected During Installation of MHW-2 and MHW-3

MHW-2,	12.5	620
MHW-3,	11'	ND

Kaldveer Associates

Maintenence Vord

TABLE 2

ANALYTICAL RESULTS - SOIL (reported in parts per million, mg/kg)

Sample Location & Depth(ft)	TPH Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes
MW1-11	520.0	0.78	2.8	2.4	14.0
MW1-16	1.0	0.3	0.11	0.007	0.045
MW1-21	15.0	1.6	2.3	0.26	1.6
MW2-11	ND	0.002	0.002	ND	ND
MW2-16	ND	0.001	0.001	ND	ND
MW2-21	ND	ND	0.001	ND	ND
MW3-11	ND	0.015	0.001	ND	ND
MW3-16	ND	0.051	0.002	ND	0.005
MW3-21	ND	ND	ND	ND	ND
EB1-10.5	ND	0.005	0.002	ND	ND
EB1-15.5	ND	0.075	0.003	ND	ND
EB1-24	ND	0.003	0.002	ND	ND
E82-11	580.0	7.6	50.0	13.0	72.0
EB2-16	1200.0	21.0	74.0	23.0	190.0
EB2-21	240.0	0.3	5.6	3.1	18.0

Notes:

TPH = Total Petroleum Hydrocarbons ND = Not Detected; see laboratory reports for specific detection limits.

ATTACHMENT B

Drilling Permit

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved	t on: 10/11/2012 By vickyh1	Permit Numbers: W2012-0747 Permits Valid from 10/19/2012 to 10/19/2012				
Application Id:	1349804814764 5000 Magadabur Plud, Caldand, CA., Milla Callag	City of Project Site	Oakland			
Site Location: Project Start Date: Assigned Inspector:	5000 MacArthur Blvd, Oakland, CA - Mills Colleg 10/19/2012 Contact James Yoo at (510) 670-6633 or jamesy	Completion Date	e:10/19/2012			
Applicant:	EquoLogic - Lee Dooley	Phone	: 408-679-7166			
Property Owner:	15936 Barry Ln, Monte Sereno, CA 95030 Mills College Linda Zitzner 5000 MacArthur, Oakland, CA 94613	Phone	: 510-430-2024			
Client:	** same as Property Owner **					
	Receipt Number: WR2012-0341	Total Due: Total Amount Paid: Paid By: CHECK	\$265.00 \$265.00 PAID IN FULL			
Works Requesting Pe	rmits:	alla maja aki ya jaka a k a k a	<u>, , , , , , , , , , , , , , , , , , , </u>			
	gation-Geotechnical Study/CPT's - 3 Boreholes pration Geoservices c57-484288] - Lic #: 705927 -	Method:	Work Total: \$265.00			
Specifications Permit issued Dt	≅xpire Dt # Hole Diam Max Depth					

Permit	issued Dt	Expire Dt	#	Hole Diam	Max Dept
Number			Boreholes		
W2012-	10/11/2012	01/17/2013	3	8.00 in.	30.00 ft
0747					

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or

Alameda County Public Works Agency - Water Resources Well Permit

waterways or be allowed to move off the property where work is being completed.

6. Cuttings may also be left on site or spread out as long as the applicants has approval from the property owner and the cuttings will not violate the State and County Clean Water laws (NPDES).

7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

9. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

ATTACHMENT C

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Boring Logs

B-13

MILLS COL	LEGE, OAKLAND, CA							
Project Num		Drill F	lig	~~·	Di	rect push		······································
Geologist	Lee Dooley	Groun	d Elevati	on	Fe	eet		
Date Drilled	11/9/2012	Total I	Depth of	Boreh	ole 22	Feet		
Borehole Dia	ameter 2 Inches	Depth	to Water		11	Feet		
Graphic Log	Description		Depth	Sample	PID	TPH-D (mg/kg)	Benzene (ug/kg)	Completion
GC	Brown sandy clayey GRAVEL - angular up to 1/2", moist				1.2	4.02	<0.50	
GC	Gray-green clayey GRAVEL - wet at 11 feet, strong product odor		10 15 		7,5 57	7.08	<0.49	
GC	Brown clayey GRAVEL - no product odor; refusal at 22 feet		 - 20 			2.85 3.51	<0.48	
EQUOL	OGIC]	I	ŀ		I	L	Page 1

C.'Program Files (x86)/Porpoise Media/Well LoggerfLegends/Mills College.wl2

B-12

<u></u>	1001 411.01.01	Drill Ri	=			rect Push	1	
Geologist Date Drilled	Lee Dooley	Ground Total D				eet Feet		
Borehole Di		Depth t				Feet		
Graphic Log	Description		Depth	Sample	UIA	TPH-D (mg/kg)	Benzene (ug/kg)	Completio
CL.	Dark brown sandy CLAY (fill) - damp, brick a wood fragments Tan and gray mottled CLAY with roots - damp, product odor at approximately 15 feet					<2.5 3.17	<0.49	
1979 1979 1979 1979 1979 1979 1979 1979	Brown clayey medium to coarse SAND - moist wet, no product odor					5.12	<0.48	
SC	Brown clayey GRAVEL - rock fragements up t 1", angular , damp, no product odor; drilling		- 25		1.6 1.2	9.30 3.01	<0.48	
	refusal at 29 feet.		- 30 					

Project Numbe	3GE, OAKLAND, CA r 411.01.01	Drill R	io		н		n guper	····· ·		
Geologist	Lee Dooley	Drill Rig Hollow stem auger Ground Elevation Feet								
Date Drilled	10/22/2012		Depth of			6.5 Feet		· .		
Borehole Diam	eter 8 Inches		to Water			6 Feet		······································		
Graphic Log	Description		Depth	Sample	PID	TPH-D (mg/kg)	Benzene (ug/kg)	Completio		
Asph alt alt Siltst Siltst Siltst Siltst Siltst Siltst Siltst Siltst Siltst Siltst Siltst Siltst	Asphalt Light brown to tan weathered bedrock - siltstone/sandstone; trace product odor at 15 feet gray green color; strong product odor at 17 feet; motttled, product odor at 20 feet, very slow drilling; no odor at 25 feet; trace of water at 26 feet; auger refusal at 26.5 feet	it, 			0.0 1.9 185 170	<0.050 <0.048 0.129 352 10.3	<0.50 <0.48 10.3 3460 193			
EQUOLO			- 35							

ATTACHMENT D

Laboratory Analytical Reports

e-Hardcopy 2.0 **Automated Report**

11/01/12





Technical Report for

EquoLogic

Mills College - 5000 MacArthur Blvd., Oakland, CA

121019-CK1

Accutest Job Number: C24325

Sampling Date: 10/19/12

Report to:

EquoLogic 15936 Barry Lane Monte Sereno, CA 95030 Idooley@equologicgroup.com

ATTN: Lee Dooley

Total number of pages in report: 26



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

manda

Kesavalu M. Bagawandoss, Ph.D., J.D., Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

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Northern California • 2105 Lundy Ave. • San Jose, CA 95131 • tel: 408-588-0200 • fax: 408-588-0201 • http://www.accutest.com

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Sample Summary

EquoLogic

Job No: C24325

Mills College - 5000 MacArthur Blvd., Oakland, CA Project No: 121019-CK1

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
C24325-1	10/19/12	10:00 BTS	10/19/12	AQ	Ground Water	MW-1
C24325-2	10/19/12	09:40 BTS	10/19/12	AQ	Ground Water	MW-2
C24325-3	10/19/12	09:00 BTS	10/19/12	AQ	Ground Water	MW-3
C24325-4	10/19/12	10:55 BTS	10/19/12	AQ	Ground Water	MW-1M
C24325-5	10/19/12	12:05 BTS	10/19/12	AQ	Ground Water	MW-2M
C24325-6	10/19/12	11:25 BTS	10/19/12	AQ	Ground Water	MW-3M



Summary of Hits

Job Number:	C24325
Account:	EquoLogic
Project:	Mills College - 5000 MacArthur Blvd., Oakland, CA
Collected:	10/19/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C24325-1	MW-1	μασια το τ, το τ, που απο τη βασιηβείαας				
Benzene Ethylbenzene 1,2-Dichloroetha Methyl Tert Buty		1.7 0.21 J 0.56 J 0.32 J	1.0 1.0 1.0 1.0	0.20 0.20 0.20 0.20 0.20	ug/l ug/l ug/l ug/l	SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B
TPH-GRO (C6-C	C10) MW-2	36.0 J	50	25	ug/l	SW846 8260B
Tert-Butyl Alcoh		10.9	10	2.4	ug/l	SW846 8260B
C24325-3	MW-3					
Methyl Tert Buty	d Ether	0.20 J	1.0	0.20	ug/l	SW846 8260B
C24325-4	MW-1M					
ТРН (С10-С28)		0.0333 J	0.097	0.024	mg/l	SW846 8015B M
C24325-5	MW-2M					
ТРН (С10-С28)		0.115	0.095	0.024	mg/l	SW846 8015B M
C24325-6	MW-3M					
TPH (C10-C28)		0.0904 J	0.095	0.024	mg/l	SW846 8015B M





Section 3



Sample Results

Report of Analysis



					Page 1 of			
Client Sam Lab Sampl Matrix: Method: Project:		T T T T T)/19/12)/19/12 /a					
Run #1 Run #2	File ID W34767.D	DF 1	Analyzed 10/24/12	By KN	Prep L n/a	Date	Prep Batch n/a	Analytical Batch VW1209
Run #1 Run #2	Purge Volu 10.0 ml	me						
BTEX, Ox	ygenates				*********			,, and all g _i , _i , i, i, i, giβ _i , i,
CAS No.	Compound	đ	Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4	Benzene Toluene Ethylbenze	mo	1.7 ND 0.21	1.0 1.0 1.0	0.20 0.20 0.20	ug/l ug/l ug/l	J	
1330-20-7 106-93-4 107-06-2	Xylene (to 1,2-Dibror 1,2-Dichlo	tal) noethane	ND ND 0,56	2.0 1.0 1.0	0.46 0.20 0.20	ug/l ug/l	1	
108-20-3 637-92-3	Di-Isoprop Ethyl Tert	yl ether Butyl Ether	ND ND	2.0 2.0	0.22 0.22	ug/l ug/l ug/l	-	
1634-04-4 91-20-3 994-05-8	Naphthaler Tert-Amyl	Methyl Ether	0.32 ND ND	1.0 5.0 2.0	0.20 0.50 0.40	ug/l ug/l ug/l	J	,
75-65-0	Tert-Butyl TPH-GRO		ND 36.0	10 50	2.4 25	ug/l ug/l	J	
CAS No.	Surrogate	Recoveries	Run# 1	Run# 2	Lim	its		
1868-53-7 2037-26-5 460-00-4	Toluene-D	uoromethane 8 10robenzene	99% 93% 99%		60-1	30% 30% 30%		

ND == Not detected **MDL - Method Detection Limit**

RL = Reporting Limit

E = Indicates value exceeds calibration range

 $\begin{array}{l} J = \mbox{ Indicates an estimated value} \\ B = \mbox{ Indicates analyte found in associated method blank} \end{array}$

N = Indicates presumptive evidence of a compound



Report of Analysis										
Client Sam Lab Sampl Matrix: Method: Project:										
Run #1 Run #2	File ID W34768	.D	DF 1	Analyzed 10/24/12	By KN	Prep D n/a	ate	Prep Batch n/a	Analytical Batch VW1209	
Run #1 Run #2	Purge V 10.0 ml	olume)	, , , , , , , , , , , , , , , , ,		* *****				
BTEX, Ox	ygenates			**************************************						
CAS No.	Compo	und		Result	RL.	MDL	Units	Q		
71-43-2 108-88-3 100-41-4 1330-20-7 106-93-4 107-06-2 108-20-3 637-92-3 1634-04-4 91-20-3 994-05-8 75-65-0	Methyl Naphth	e enzene (total) promoe chloroe ropyl ert Bu Tert B alene nyl Mo utyl Ald	thane thane ether tyl Ether Sutyl Ether ethyl Ether cohol	ND ND ND ND ND ND ND ND ND 10.9 ND	1.0 1.0 2.0 1.0 1.0 2.0 2.0 1.0 5.0 2.0 10 50	0.20 0.20 0.46 0.20 0.20 0.22 0.22 0.22 0.22 0.20 0.50 0.40 2.4 25	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l			
CAS No.	-		coveries	Run# 1	Run# 2	Lim				
1868-53-7 2037-26-5 460-00-4	Toluenc	e-D8	omethane obenzene	99% 96% 98%		60-1	30% 30% 30%			

ND = Not detected **MDL - Method Detection Limit**

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



	Page 1 of 1							
Client Samp Lab Samp Matrix: Method: Project:	le ID:	MW-3 C24325-3 AQ - Ground Wa SW846 8260B Mills College - 5		Blvd., Oakl	and, CA	Date Perc	Received: 1	0/19/12 0/19/12 /a
Run #1 Run #2	File 1D W34769	DF .D 1	Analyzed 10/24/12	By KN	Prep D n/a	Pate	Prep Batch n/a	Analytical Batch VW1209
Run #1 Run #2	Purge V 10.0 ml	olume	· · · · · · · · · · · · · · · · · · ·					······
BTEX, Ox	ygenates			<u></u>		<u> </u>	·····	
CAS No.	Compo	und	Result	RL	MDL	Units	Q	
71-43-2	Benzen		ND	1.0	0.20	ug/l		
108-88-3	Toluene		ND	1.0	0.20	ug/l		
100-41-4	Ethylbe		ND	1.0	0.20	ug/l		
1330-20-7	Xylene		ND	2.0	0.46	ug/l		
106-93-4		romoethane	ND	1.0 1.0	0.20	ug/l		
107-06-2 108-20-3		hloroethane ropyl ether	ND ND	2.0	0.20 0.22	ug/l		
108-20-3 637-92-3		ert Butyl Ether	ND	2.0 2.0	0.22	ug/l		
1634-04-4		Tert Butyl Ether		2.0 1.0	0.22	ug/1	т	
1034-04-4 91-20-3	Naphtha		ND	1.0 5.0	0.20	ug/1	J	
994-05-8		nyl Methyl Ether		2.0	0.30	ug/l		
75-65-0		tyl Alcohol	ND	10	2.4	ug/l ug/l		
10-00-0		RO (C6-C10)	ND	50	25	ug/l		
CAS No.	Surroga	ate Recoveries	Run# 1	Run# 2	Lim	its		
1868-53-7		ofluoromethane	97 %			30%		
2037-26-5	Toluene		92%			.30%		
460-00-4			96%		60-1	30%		

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



	Page 1 of 1							
Client Sam Lab Sampl Matrix: Method: Project:	e ID: C24325 AQ - G SW846	-4 round Water 8260B	n D MacArthur	Blvd., Oakl	and, CA	Date Perc	Received: 1	0/19/12 0/19/12 /a
Run #1 Run #2	File ID W34770.D	DF 1	Analyzed 10/24/12	By KN	Prep D n/a	late	Prep Batch n/a	Analytical Batch VW1209
Run #1 Run #2	Purge Volume 10.0 ml							
BTEX, Ox	ygenates							
CAS No.	Compound		Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7 106-93-4 107-06-2 108-20-3 637-92-3 1634-04-4 91-20-3 994-05-8 75-65-0	Benzene Toluene Ethylbenzene Xylene (total) 1,2-Dibromoet 1,2-Dichloroet Di-Isopropyl et Ethyl Tert Buty Methyl Tert Buty Methyl Tert Buty Naphthalene Tert-Amyl Met Tert-Butyl Alco TPH-GRO (C6	hane her A Ether ityl Ether hyl Ether bhol	ND ND ND ND ND ND ND ND ND ND	1.0 1.0 2.0 1.0 1.0 2.0 2.0 1.0 5.0 2.0 10 50	0.20 0.20 0.46 0.20 0.20 0.22 0.22 0.22 0.22 0.20 0.50 0.40 2.4 25	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l		
CAS No. Surrogate Recoveries 1868-53-7 Dibromofluoromethane 2037-26-5 Toluene-D8			Run# 1 100% 95%	Run# 2		its .30% .30%		

ND = Not detected **MDL - Method Detection Limit**

RL = Reporting LimitE = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



630-01-3

Hexacosane

			Repo	rt of An	alysis			Page 1 of 1
Client San Lab Samp Matrix: Method: Project:	le ID: C2432 AQ - G SW846	5-4 Fround Wat 8015B M	er SW846 3510(00 MacArthur	_	and, CA	Date		1/19/12 1/19/12 a
Run #1 Run #2	File ID HH027299.D	DF 1	Analyzed 10/23/12	By JH	Prep D 10/23/1		Prep Batch OP6897	Analytical Batch GHH840
Run #1 Run #2	Initial Volume 1030 ml	Final Vo 1.0 ml	lume			<u> </u>		
TPH Extra	actable w/ Silica	Gel Clean	1 p					
CAS No.	Compound		Result	RL	MDL	Units	Q	
	ТРН (С10-С2	3)	0.0333	0.097	0.024	mg/l	j	
CAS No.	Surrogate Rec	overies	Run# 1	Run# 2	Lim	its		

45-140%

72%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



			Repor	Page 1 of				
Client Sam Lab Sampl Matrix: Method: Project:	e ID: C24325-5 AQ - Gro SW846 8/	und Water	Arthur E	Blvd., Oakla	und, CA	Date	Received: 1	.0/19/12 .0/19/12 ./a
Run #1 Run #2			lyzed 24/12	By KN	Prep Da n/a	ate	Prep Batch n/a	Analytical Batch VW1209
Run #1 Run #2	Purge Volume 10.0 ml							
BTEX, Ox	ygenates							
CAS No.	Compound	F	Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7 106-93-4 107-06-2 108-20-3 637-92-3 1634-04-4 91-20-3 994-05-8 75-65-0	Benzene Toluene Ethylbenzene Xylene (total) 1,2-Dibromoetha 1,2-Dichloroetha Di-Isopropyl ethe Ethyl Tert Butyl Methyl Tert Butyl Methyl Tert Butyl Naphthalene Tert-Amyl Methy Tert-Butyl Alcoh TPH-GRO (C6-C	ne N ne N er N Ether N 4 Ether N yl Ether N ol N		1.0 1.0 2.0 1.0 1.0 2.0 2.0 2.0 1.0 5.0 2.0 10 50	0.20 0.20 0.46 0.20 0.20 0.22 0.22 0.22 0.22 0.20 0.50 0.40 2.4 25	ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1		
CAS No.	CAS No. Surrogate Recoveries		Run# 1	Run# 2	Limi			
1868-53-7 2037-26-5 460-00-4	Dibromofluorom Toluene-D8 4-Bromofluorobe	9	00% 4% 01%		60-1) 60-1) 60-1)	30%		

MDL - Method Detection Limit ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



630-01-3

Hexacosane

Report of Analysis Page 1 of 1 Client Sample ID: MW-2M Date Sampled: 10/19/12 Lab Sample ID: C24325-5 Date Received: 10/19/12 AQ - Ground Water Matrix: SW846 8015B M SW846 3510C Percent Solids: n/a Method: Mills College - 5000 MacArthur Blvd., Oakland, CA Project: Analyzed Prep Date **Prep Batch Analytical Batch** DF By File ID OP6897 **GHH840** 10/23/12 JH 10/23/12 Run #1 HH027300.D 1 Run #2 Initial Volume **Final Volume** 1050 ml 1.0 ml Run #1 Run #2 TPH Extractable w/ Silica Gel Cleanup Q Result RL MDL Units CAS No. Compound **TPH (C10-C28)** 0.115 0.095 0.024 mg/l Run#2 Limits CAS No. Surrogate Recoveries Run#1

67%

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit E = Indicates value exceeds calibration range J = Indicates an estimated value

45-140%

- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



		Repo	rt of An		Page 1 of 1		
Client Sam Lab Sampl Matrix: Method: Project:			Blvd., Oakl	and, CA	Date)/19/12)/19/12 a
Run #1 Run #2	File ID DF W34772.D 1	Analyzed 10/24/12	By KN	Prep D n/a	ate	Prep Batch n/a	Analytical Batch VW1209
Run #1 Run #2	Purge Volume 10.0 ml						
BTEX, Ox	ygenates						
CAS No.	Compound	Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7 106-93-4 107-06-2 108-20-3 637-92-3 1634-04-4 91-20-3 994-05-8 75-65-0	Benzene Toluene Ethyłbenzene Xylene (total) 1,2-Dibromoethane 1,2-Dichloroethane Di-Isopropyl ether Ethyl Tert Butyl Ether Methyl Tert Butyl Ether Naphthalene Tert-Amyl Methyl Ether Tert-Butyl Alcohol TPH-GRO (C6-C10)	ND ND ND ND ND ND ND ND ND ND ND	1.0 1.0 2.0 1.0 1.0 2.0 2.0 1.0 5.0 2.0 10 50	0.20 0.20 0.46 0.20 0.20 0.22 0.22 0.22 0.22 0.20 0.50 0.40 2.4 25	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l		
CAS No. 1868-53-7 2037-26-5 460-00-4	Surrogate Recoveries Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	Run# 1 100% 92% 100%	Run# 2	Lim 60-1 60-1	-		

ND = Not detected **MDL - Method Detection Limit**

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



CAS No.

630-01-3

Report of Analysis Page 1 of 1 MW-3M Client Sample ID: Date Sampled: 10/19/12 C24325-6 Lab Sample ID: Date Received: 10/19/12 AQ - Ground Water Matrix: SW846 8015B M SW846 3510C Percent Solids: n/a Method: Mills College - 5000 MacArthur Blvd., Oakland, CA Project: Prep Batch **Analytical Batch** DF Analyzed **Prep Date** File ID By OP6897 GHH840 10/23/12 10/23/12 JH HH027301.D Run #1 1 Run #2 **Final Volume** Initial Volume 1.0 ml Run #1 1050 ml Run #2 TPH Extractable w/ Silica Gel Cleanup RL MDL Units Q Compound Result CAS No. 0.095 0.024 J **TPH (C10-C28)** 0.0904 mg/l

Run#2

Limits

45-140%

Run# 1

74%

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

Surrogate Recoveries

Hexacosane

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



Section 4



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



													4745"	1	Accutest C	9U-309	5 DHS#
			1005		OGER8 AVENL RNIA 95112-111			CON	DUCT	ANAL	<u>YSI8 1</u>	O DE	TECT	LAB ALL ANALYSES MUST	Accutest	CATIONS AND	DETECTION
BLA	NE	546	10se		X (408) 673-77									LIMITS SET BY CALIF	ORNIA DHS AND)	
TECH SER	VICES, ING				IE (408) 573-05		3							EPA		RWQCB REC	GION
Caral and a million	Manu		,			1			·								
CHAIN OF CUS	TODA	BTS #	12	1010	1-041	8	14430										·····
CLIENT	Equolog					EN I								SPECIAL INSTRUCTION	BNG		
SITE			<u>P</u>			CONTAINERS	ser ser	8						Invoice to:	Equologic G	noun	
one	Mills Co	llege				8		IPH-G/BTEX/MTBE								ioup	
{	5000 Ma	cArthu	r Blvd.			A.	13	S.						Attn:	Lee Dooley		
	Oakland,	CA				Ë	2	E		8	ല്പ			Report to:	Lee Dooley		
	C California		MATRIX	00	NTAINERS	1 Š	3	eg i	50	E E E E E E E E E E E E E E E E E E E							·,
			20			ğ		12	oXYs	ů.	픹				ł	I I	{
		TIME	S= SOIL W=H_D	TOTAL		C = COMPOSITE ALL	TPH-D w Succe	E	50	EDC & EDB	Napthalene			ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
SAMPLE I.D.	DATE			3	Haw UPAS	F	╎┶╴	$\mathbf{\nabla}$	$\overline{\mathbf{x}}$	$\overline{\nabla}$	Ŕ						-1
Mart	iolialic		<u>v</u>	3			+	K	✐	\ge	КÈ		╢───┨╌──╴			·····	- 2
MW-2		<u>0140</u>	W		Her JOAN		·	X	R	\geq	Þ		·				• 3
MW-3		0900	U.	3	Her NOND		<u> </u>	X	\geq	\geq	\geq				1		
MW-IM		(055	S	5	LLNY AMOUNT		>	\mathbb{X}	\geq	\times	\succ						- 4
			Ŵ	5	ILL NAS		∇	$\overline{\mathbf{X}}$	$\overline{\mathbf{N}}$	\mathbf{k}	\sim						- 5
MV-2M		1205			TUCH VIAI	T	✐	E	R	\triangleright	6						- 6
MW-3M		1125	w.	<u> </u>	IL NP ALASS	 	Þ	к М	\sim	\sim	$ \geq$						
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SAMPLING	DATE	TIME	SAMPL		<u> </u>		_	L	I	I	I			RESULTS NEEDED	<u></u>	.	
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RELEASED BY	<u> </u>		L., .,		<u>V</u>	DAT			TIME			REC	EIVED BY			DATE	TIME
' C	n /2						1191	12		00		<u> </u>		Elphan	<u></u>	DATE	12/1400
RELEASED BY						DAT	ſΕ		TIME			REC	EIVED BY	-		Inver.	1
			-,			1045		·	TIME				EIVED BY	·····		DATE	TIME
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SHIPPED VIA						(DA)	E SE	١T	TIME	SENT		000	LER#			· · · · · · · · · · · · · · · · · · ·	
OULL OUL						1						1	(1)	8.7-1.0	= 2.7°C	•	
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C24325: Chain of Custody Page 1 of 2



		Accutest Laborat	tories Sample Receip		
Accutest Job Number: C2432	25 Cil	ent: BLAINE TECH	Projec	t: EQUOLOGIC	
Date / Time Received: 10/19/	/2012	Delivery Method:	Client Airbi	li #'s:	
Cooler Temps (Initial/Adjusted		0			
1. Clustody Seals Present: □ 2. Custody Seals Intact: □	1. Smpl	<u>Y or N</u> DC Present: ☑ Dates/Time OK ☑	1. Sample labels present o	on bottles:	<u>or N</u>
Cooler Temperature 1. Temp criterla achleved: 2. Cooler temp verification: 3. Cooler media: 4. No. Coolers:	Y or N ⊮ □ IR Gun Ice (Bag) 1		Sample Integrity - Con 1. Sample recvd within HT 2. All containers accounted 3. Condition of sample:	t: ☑ d for: ☑	or N
Quality Control_Preservation 1. Trip Blank present / cooler. 2. Trip Blank listed on COC: 3. Samples preserved properly: 4. VOCs headspace free:	Y or N □ 12 □ 12 13 14 15 15 15 15 15 15 15 15 15 15		Sample Integrity - Inst 1. Analysis requested is o 2. Bottles received for un 3. Sufficient volume recvo 4. Compositing instruction 5. Filtering instructions cli	cléar: Image: Clear: specified tests Image: Clear: d for analysis: Image: Clear:	or N N/A
Comments					

Accutest Laboratories V:408.588.0200 2105 Lundy Avenue F: 408.588.0201 San Jose, CA 95131 www/accutest.com

C24325: Chain of Custody Page 2 of 2





GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1209-MB	W34758.D	1	10/24/12	KN	n/a	n/a	VW1209

C24325-1, C24325-2, C24325-3, C24325-4, C24325-5, C24325-6

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND	1.0	0.20	ug/1
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/Ì
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l
91-20-3	Naphthalene	ND	5.0	0.50	ug/l
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l
108-88-3	Toluene	ND	1.0	0.20	ug/l
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l
1000	TPH-GRO (C6-C10)	ND	50	25	ug/l
CAS No.	Surrogate Recoveries		Limi	ts	
1868-53-7	Dibromofluoromethane	95%	60-13	30%	
2037-26-5	Toluene-D8	97%	60-1	30%	
460-00-4	4-Bromofluorobenzene	97%	60-1	30%	



Blank Spike/Blank Spike Duplicate Summary

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1209-BS	W34755.D	1	10/24/12	KN	n/a	n/a	VW1209
VW1209-BSD	W34756.D	1	10/24/12	KN	n/a	n/a	VW1209

The QC reported here applies to the following samples: C24325-1, C24325-2, C24325-3, C24325-4, C24325-5, C24325-6

CAS No.	Compound	Spike ug/l	BSP ug/1	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2 106-93-4 107-06-2 108-20-3 100-41-4 637-92-3 1634-04-4 91-20-3 994-05-8 75-65-0 108-88-3 1330-20-7	Benzene 1,2-Dibromoethane 1,2-Dichloroethane Di-Isopropyl ether Ethylbenzene Ethyl Tert Butyl Ether Methyl Tert Butyl Ether Naphthalene Tert-Amyl Methyl Ether Tert-Butyl Alcohol Toluene Xylene (total)	20 20 20 20 20 20 20 20 20 20 20 20 60	21.4 20.3 20.2 20.6 20.2 22.3 21.4 21.3 21.0 102 19.9 61.3	107 102 101 103 101 112 107 107 105 102 100 102	21.3 20.4 19.7 21.1 19.3 22.4 21.4 21.7 21.2 103 19.5 59.2	107 102 99 106 97 112 107 109 106 103 98 99	0 0 3 2 5 0 0 2 1 1 2 3	60-130/30 60-130/30 60-130/30 60-130/30 60-130/30 60-130/30 60-130/30 60-130/30 60-130/30 60-130/30
CAS No. 1868-53-7 2037-26-5 460-00-4	Surrogate Recoveries Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	BSP 97% 94% 99%	94 92	SD 1% 2% 7%	Limit: 60-13 60-13 60-13	0% 0%		



Laboratory Control Sample Summary

Job Number: Account: Project:	C24325 EQUOCAMS I Mills College -	EquoLogi 5000 Ma	ic acArthur Blvd.,	Oakland,	СА	Na star and a star and	
Sample VW1209-LCS	File ID W34757.D	DF 1	Analyzed 10/24/12	By KN	Prep Date n/a	Prep Batch n/a	Analytical Batch VW1209
-	ted here applies					Method: SW84	6 8260B

C24325-1, C24325-2, C24325-3, C24325-4, C24325-5, C24325-6

CAS No.	Compound	Spike ug/l	LCS ug/l	LCS %	Limits
	TPH-GRO (C6-C10)	125	132	106	60-130
CAS No.	Surrogate Recoveries	BSP	Li	mits	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	93% 97% 98%	60	-130% -130% -130%	

* = Outside of Control Limits.

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Matrix Spike/Matrix Spike Duplicate Summary

Sample C24336-1MS C24336-1MSD C24336-1	File 1D W34776.D W34777.D W34761.D	DF 1 1 1	Analyzed 10/24/12 10/24/12 10/24/12	By KN KN KN	Prep Date n/a n/a n/a	Prep Batch n/a n/a n/a	Analytical Batch VW1209 VW1209 VW1209 VW1209
---	---	-------------------	--	----------------------	--------------------------------	---------------------------------	--

The QC reported here applies to the following samples:

C24325-1, C24325-2, C24325-3, C24325-4, C24325-5, C24325-6

CAS No.	Compound	C24336-1 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2 106-93-4 107-06-2 108-20-3 100-41-4 637-92-3 1634-04-4 91-20-3 994-05-8 75-65-0 108-88-3 1330-20-7	Benzene 1,2-Dibromoethane 1,2-Dichloroethane Di-Isopropyl ether Ethylbenzene Ethyl Tert Butyl Ether Methyl Tert Butyl Ether Naphthalene Tert-Amyl Methyl Ether Tert-Butyl Alcohol Toluene Xylene (total)	1.0 U 1.0 U 2.0 U 1.0 U 2.0 U 1.0 U 1.0 U 5.0 U 2.0 U 10 U 1.0 U 2.0 U	20 20 20 20 20 20 20 20 20 20 20 20 60	20.5 20.3 21.7 20.0 19.0 22.9 21.8 20.6 21.6 88.4 19.0 58.2	103 102 109 100 95 115 109 103 108 88 95 97	20.1 19.2 19.6 20.4 18.4 22.3 21.1 20.2 21.2 84.3 18.5 56.6	101 96 98 102 92 112 106 101 106 84 93 94	2 6 10 2 3 3 3 2 2 5 3 3 3	60-130/25 60-130/25 60-130/25 60-130/25 60-130/25 60-130/25 60-130/25 60-130/25 60-130/25 60-130/25 60-130/25
CAS No.	Surrogate Recoveries	MS	MSD	C	24336-1	Limit			
1868-53-7 2037-26-5 460-00-4		100% 92% 102%	98% 92% 99%	94)0% 1%)1%	60-13 60-13 60-13	0%		



* = Outside of Control Limits.

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GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Numbe Account: Project:	r: C24325 EQUOCAMS EquoLog Mills College - 5000 M		, Oaklan	d, CA			-
Sample OP6897-MI	File ID DF 3 HH027296.D1	Analyzed 10/23/12	By JH		p Date 23/12	Prep Batch OP6897	Analytical Batch GHH840
	ported here applies to the fi C24325-5, C24325-6	ollowing sampl	es:	ng 18, gi g g − 2, st	<u></u>	Method: SW84	6 8015B M
CAS No.	Compound TPH (C10-C28)	Result ND	RL 0.10	MDL 0.025	Units mg/l	Q	
CAS No.	Surrogate Recoveries		Limit	5			
630-01-3	Hexacosane	76%	45-14	0%			



Blank Spike/Blank Spike Duplicate Summary

Job Number Account: Project:	: C24325 EQUOCAMS EquoLog Mills College - 5000 M	ic	vd., Oal	dand, C	Ą			_
Sample OP6897-BS OP6897-BSE	File ID DF HIH027297.D1 HH027298.D1	Analy: 10/23/ 10/23/	12 J.	y H H	Prep Da 10/23/12 10/23/12	(Prep Bate DP6897 DP6897	ch Analytical Batch GHH840 GHH840
	orted here applies to the for 24325-5, C24325-6	ollowing sa	mples:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u></u>	Me	hod: SV	V846 8015B M
CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	ТРН (С10-С28)	1	0.660	66	0.693	69	5	45-140/30
CAS No.	Surrogate Recoveries	BSP	B	SD	Limits			
630-01-3	Hexacosane	81%	80	1%	45-1409	%		

* = Outside of Control Limits.



Matrix Spike/Matrix Spike Duplicate Summary

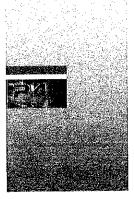
Job Numb Account: Project:	er: C24325 EQUOCAMS EquoLog Mills College - 5000 M		vd.,	Oakland	, CA					
Sample OP6897-M OP6897-M C24346-1		Analyz 10/24/3 10/24/3 10/23/3	12 12	By JH JH JH	10/2 10/2	p Date 23/12 23/12 23/12 23/12	Prep I OP689 OP689 OP689	17 17	Analyti GHH84 GHH84 GHH84	10
-	eported here applies to the for C24325-5, C24325-6	ollowing san	nple	s:	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		Method:	SW846	8015B N	,
CAS No.	Compound	C24346 mg/l	-1 Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	ТРН (С10-С28)	0.0285	J	2	1.56	77	1.52	75	3	45-140/25
CAS No.	Surrogate Recoveries	MS		MSD	C2	4346-1	Limits			
630-01-3	Hexacosane	93%		87%	844	%	45-1409	%		



e-Hardcopy 2.0 Automated Report

11/05/12







Technical Report for

EquoLogic

Mills College - 5000 MacArthur Blvd., Oakland, CA

411-01.01

Accutest Job Number: C24374

Sampling Date: 10/22/12

Report to:

EquoLogic 15936 Barry Lane Monte Sereno, CA 95030 Idooley@equologicgroup.com

ATTN: Lee Dooley

Total number of pages in report: 18



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Contractor 2

Kesavalu M. Bagawandoss, Ph.D., J.D., Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

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Sample Summary

EquoLogic

Job No: C24374

Mills College - 5000 MacArthur Blvd., Oakland, CA Project No: 411-01.01

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID	
C24374-1	10/22/12	12:15 LD	10/22/12	SO	Soil	EB-3@6'	- <u>1969</u> - 1999
C24374-2	10/22/12	12:35 LD	10/22/12	SO	Soil	EB-3@10'	
C24374-3	10/22/12	13:00 LD	10/22/12	so	Soil	EB-3@15'	
C24374-4	10/22/12	13:30 LD	10/22/12	SO	Soil	EB-3@20'	
C24374-5	10/22/12	14:15 LD	10/22/12	SO	Soil	EB-3@25'	

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Summary of Hits

Job Number:	C24374
Account:	EquoLogic
Project:	Mills College - 5000 MacArthur Blvd., Oakland, CA
Collected:	10/22/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C24374-1	EB-3@6'		<u>, , ,, , , , , , , , , , , , , , , , ,</u>	·		an a
No hits reported	in this sample.					
C24374-2	EB-3@10'					
No hits reported	in this sample.					
C24374-3	E B-3@15 '					
Benzene Ethylbenzene Xylene (total) Naphthalene Tert Butyl Alcoh TPH-GRO (C6-C C24374-4 Benzene Toluene Ethylbenzene Xylene (total)		10.3 2.7 J 5.7 J 28.8 27.7 J 129 3460 837 J 5390 24800	5.0 5.0 10 5.0 40 100 1800 1800 1800 3500	0.50 0.50 1.0 1.0 50 180 180 180 350	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	SW846 8260B SW846 8260B
Naphthalene TPH-GRO (C6-C	C10)	2490 352000	1800 35000	350 18000	ug/kg ug/kg	SW846 8260B SW846 8260B
C24374-5	EB-3@25'					
Benzene Toluene Ethylbenzene Xylene (total) Naphthalene TPH-GRO (C6-C	210)	193 27.1 J 182 J 659 65.3 J 10300	190 190 190 370 190 3700	19 19 19 37 37 1900	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B





Sample Results

Report of Analysis



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				Repo	ort of A	nalysis	8		Page 1 of 1
Client San Lab Samp Matrix: Method: Project:		10/22/12 10/22/12 n/a ^a							
Run #1 Run #2	File ID L20479		DF 1	Analyzed 10/24/12	By XB	Prep 1 n/a	Date	Prep Batch n/a	Analytical Batch VL647
Run #1 Run #2	Initial V 5.02 g	Weight			······································		*****	,	9
BTEX, Ox	ygenates		,		- 1				*, *,
CAS No.	Compo	und		Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7 106-93-4 107-06-2 108-20-3 37-92-3 634-04-4 91-20-3 194-05-8 5-65-0	1,2-Dic Di-Isopu Ethyl te Methyl Naphtha Tert-An Tert But	e nzene (total) romoeth hloroeth hloroeth ropyl eth rt-Butyl Tert Butyl	ane ler Ether yl Ether ył Ether iol	ND ND ND ND ND ND ND ND ND ND ND	$5.0 \\ 5.0 \\ 5.0 \\ 10 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 40 \\ 100$	$\begin{array}{c} 0.50\\ 0.50\\ 1.0\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 1.0\\ 1.0\\ 1.0\\ 1.0\\ 10\\ 50\\ \end{array}$	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg		
AS No.	Surroga	te Recor	veries	Run# 1	Run# 2	Limi	its		
868-53-7 037-26-5 60-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene		102% 101% 100%		60-13 60-13 60-13	30%			

(a) All results reported on a wet weight basis.

ND = Not detectedMDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



			Repo	ort of Ar	alysis	5		Page 1 of
Client San Lab Samp Matrix: Method: Project:	SO - S SW846	4-2 oil 5 8260B	100 MacArthur	Blvd., Oak	land, CA	Date Perc	e Sampled: e Received: cent Solids:	10/22/12 10/22/12 n/a ª
Run #1 Run #2	File ID L20478.D	DF 1	Analyzed 10/24/12	By XB	Prep I n/a	Date	Prep Batch n/a	n Analytical Batch VL647
Run #1 Run #2	Initial Weight 5.17 g					ی پر با دی کر دی کر مراجع کر دی کر د	innen efter en fres en freste en en seguer en	
BTEX, Ox	ygenates		**************************************		<u></u>	·····		
CAS No.	Compound		Result	RL	MDL	Units	Q	
71-43-2	Benzene		ND	4.8	0.48	ug/kg		
108-88-3	Toluene		ND	4.8	0.48	ug/kg		
100-41-4	Ethylbenzene		ND	4.8	0.48	ug/kg		
1330-20-7	Xylene (total)		ND	9.7	0.97	ug/kg		
106-93-4	1,2-Dibromoet		ND	4.8	0.48	ug/kg		
107-06-2	1,2-Dichloroet		ND	4.8	0.48	ug/kg		
108-20-3	Di-Isopropyl et		ND	4.8	0.48	ug/kg		
637-92-3	Ethyl tert-Butyl		ND	4.8	0.48	ug/kg		
1634-04-4	Methyl Tert Bu	ityl Ether	ND	4.8	0.97	ug/kg		
91-20-3	Naphthalene		ND	4.8	0.97	ug/kg		
994-05-8	Tert-Amyl Met		ND	4.8	0.48	ug/kg		
75-65-0	Tert Butyl Alco TPH-GRO (C6		ND ND	39 97	9.7 48	ug/kg ug/kg		
CAS No.	Surrogate Rec	overies	Run# 1	Run# 2	Lim	its		
868-53-7	Dibromofluoro	methane	103%		60-1	30%		
2037-26-5	Toluene-D8		101%		60-1			
60-00-4	4-Bromofluorol	benzene	99%		60-1			

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



a substantial second

			Report of Analysis						
Client San Lab Samp Matrix: Method: Project:	le ID:	EB-3@15' C24374-3 SO - Soil SW846 8260B Mills College - 5	000 MacArthur	Blvd., Oak	land, CA	Date Perc	Received: 1	0/22/12 0/22/12 /a ^a	
Run #1 Run #2	File ID L20480.	DF D 1	Analyzed 10/24/12	By XB	Prep I n/a	Date	Prep Batch n/a	Analytical Batch VL647	
Run #1 Run #2	Initial V 5.02 g	Veight							
BTEX, Ox	ygenates		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				·····	
CAS No.	Compo	und	Result	RL	MDL	Units	Q		
71-43-2 108-88-3 100-41-4 1330-20-7 106-93-4 107-06-2 108-20-3 637-92-3 1634-04-4 91-20-3 994-05-8 75-65-0	1,2-Dic Di-Isop Ethyl te Methyl Naphtha Tert-An Tert Bu	e nzene (total) romoethane hloroethane ropyl ether rt-Butyl Ether Tert Butyl Ether alene nyl Methyl Ether tyl Alcohol	10.3 ND 2.7 5.7 ND ND ND 28.8 ND 27.7	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	0.50 0.50 1.0 0.50 0.50 0.50 0.50 1.0 1.0 1.0 0.50 10	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	1 1 1		
CAS No.		RO (C6-C10) ate Recoveries	129 Run# 1	100 Run# 2	50 Lim	ug/kg its			
1868~53-7 2037-26-5 160-00~4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene		100% 105% 103%		60-1	30% 30% 30%			

(a) All results reported on a wet weight basis.

ND = Not detected **MDL - Method Detection Limit**

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



				F	Repo	rt of A	Analysis		Page 1 of
Client Sa Lab Sam Matrix: Method: Project:		EB-3@2 C24374- SO - Soi SW846 t Mills Co	4 1 8260B	100 Mac/	Arthur :	Blvd., O	akland, CA	Date Sampled: Date Received: Percent Solids:	
Run #1 Run #2	File ID L.20486	D	DF 1	Analy 10/24		By XB	Prep Date n/a	Prep Batc n/a	h Analytical Batch VL647
Run #1 Run #2	Initial V 7.12 g	Veight	Final Vo 5.0 ml	olume	Metha 10.0 u	anol Alio I	lnot		

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3460	1800	180	ug/kg	
108-88-3	Toluene	837	1800	180	ug/kg	J
100-41-4	Ethylbenzene	5390	1800	180	ug/kg	-
1330-20-7	Xylene (total)	24800	3500	350	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1800	180	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1800	180	ug/kg	
108-20-3	Di-Isopropyl ether	ND	1800	180	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	1800	180	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1800	350	ug/kg	
91-20-3	Naphthalene	2490	1800	350	ug/kg	
994- 05-8	Tert-Amyl Methyl Ether	ND	1800	180	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	14000	3500	ug/kg	
	TPH-GRO (C6-C10)	352000	35000	18000	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	100%		60-1	30%	
2037-26-5	Toluene-D8	106%		60-1	30%	
460-00-4	4-Bromofluorobenzene	102%		60-1	30%	

(a) All results reported on a wet weight basis.

ND = Not detected**MDL - Method Detection Limit**

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank

 $N \Rightarrow$ Indicates presumptive evidence of a compound

`			Repo	ort of A1	nalysis			Page 1 of
Client San Lab Samp Matrix: Method: Project:	le ID: C2437 SO - S SW84	74-5 Soil 6 8260B	00 MacArthur	Blvd., Oak	land, CA	Date Perc	e Received: 1	0/22/12 0/22/12 /a ^a
Run #1 Run #2	File ID L20487.D	DF 1	Analyzed 10/24/12	By XB	Prep I n/a	Date	Prep Batch n/a	Analytical Batch VL647
Run #1 Run #2	Initial Weight 6.74 g	Final Vol 5.0 ml	lume Meth 100 t	anol Aliqu I	ot			
BTEX, Ox	ygenates	"····	******	<u></u>	<u></u>		 	May 6 an
CAS No.	Compound		Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7 106-93-4 107-06-2 108-20-3 137-92-3 1634-04-4 91-20-3 994-05-8 75-65-0	Benzene Toluene Ethylbenzene Xylene (total) 1,2-Dibromoet 1,2-Dichloroet Di-Isopropyl e Ethyl tert-Buty Methyl Tert Buty Methyl Tert Butyl Alco Tert Butyl Alco	thane ther d Ether utyl Ether thyl Ether ohol	193 27.1 182 659 ND ND ND ND 65.3 ND ND	190 190 190 370 190 190 190 190 190 190 190	19 19 37 19 19 19 19 19 37 37 37 19 370	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	1 1	
CAS No. 868-53-7	TPH-GRO (Co Surrogate Rec Dibromofluoro	overies	10300 Run# 1 98%	3700 Run# 2	1900 Lim 60-1			
037-26-5 60-00-4	Toluene-D8 4-Bromofluoro	benzene	102% 99%		60-1 60-1	30%		

.

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound





Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



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C24374: Chain of Custody Page 1 of 2





Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C243	374	Client	EQUOLO	GIC		Project: MILLS COLLE	GE		
Date / Time Received: 10/2	2/2012	······································	Delivery	Method:	Client	Airbill #'s:			
Cooler Temps (Initial/Adjuste	d): <u>#1:</u>	<u>(5.4/5.4); 0</u>							
Cooler Security Y	or N			Y or N	Sample Integrit	ty - Documentation	<u>Y</u>	or N	
1. Custody Seals Present:		3. COC F			1. Sample labels	present on bottles:	V		
2. Custody Seals Intact:		4. Smpł Date	95/ Hmə QK		2. Container labe	ling complete:	\checkmark		
Cooler Temperature	<u>Y o</u>	<u>r. N.</u>			3. Sample contai	ner label / COC agree:			
1. Temp criteria achieved:	V				Sample Integri	ity - Condition	<u>Y</u>	or N	
2. Cooler temp verification:		Gun	-		1. Şample reçvd		\mathbf{V}		
3. Cooler media:	lce	(Bag)			2. All containers	accounted for:			
4. No. Coolers:		1			3. Condition of sa	ample:		ntact	
Quality Control Preservation	<u> Y </u>	or N N/A	ł		Sample Integri	ty - Instructions	Υ	or N	N/A
1. Trip Blank present / cooler:					1. Analysis requ				
2. Trip Blank listed on COC:						ed for unspecified tests			
3. Samples preserved properly:	\checkmark				3. Sufficient volu	ime record for analysis:			
 VOCs headspace free: 					4. Compositing in	nstructions clear:			\checkmark
					5. Filtering instru	ctions clear:			\checkmark

Acculest Laboratories V:408.5688.0200 2105 Lundy Avenue F: 408.588.0201 San Jose, CA 95131 www/accutest.com

C24374: Chain of Custody Page 2 of 2





GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number: Account: Project:	C24374 EQUOCAMS Mills College -	+ +	ic acArthur Blvd.,	Oakland,	CA		Ŭ
Sample VL:647-MB	File ID L20470.D	DF 1	Analyzed 10/24/12	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VL647
The QC report	ted here applies	to the fo	llowing sample	s:		Method: SW84	5 8260B

- - - - - -

C24374-1, C24374-2, C24374-3, C24374-4, C24374-5

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg
108-20-3	Di-Isopropyl ether	ND.	5.0	0.50	ug/kg
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg
108-88-3	Toluene	ND	5.0	0.50	ug/kg
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg
	TPH-GRO (C6-C10)	ND	100	50	ug/kg
CAS No.	Surrogate Recoveries		Limit	8	
1868-53-7	Dibromofluoromethane	101%	60-13	0%	
2037-26-5	Toluene-D8	1 07%	60-13	0%	
460-00-4	4-Bromofluorobenzene	99%	60-13	0%	



Blank Spike/Blank Spike Duplicate Summary

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL647-BS	L20467.D	1	10/24/12	XB	n/a	n/a	VL647
VL647-BSD	L20468.D	1	10/24/12	XB	n/a	n/a	VL647

The QC reported here applies to the following samples:

Method: SW846 8260B

C24374-1, C24374-2, C24374-3, C24374-4, C24374-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	40.5	101	38.9	97	4	60-130/30
106-93-4	1,2-Dibromoethane	40	40.1	100	39.5	99	2	60-130/30
107-06-2	1,2-Dichloroethane	40	37.5	94	37.0	93	1	60-130/30
108-20-3	Di-Isopropyl ether	40	45.2	113	45.0	113	0	60-130/30
100-41-4	Ethylbenzene	40	40.0	100	38.3	96	4	60-130/30
637-92-3	Ethyl tert-Butyl Ether	40	41.0	103	41.2	103	0	60-130/30
1634-04-4	Methyl Tert Butyl Ether	40	39.3	98	39.4	99	0	60-130/30
91-20-3	Naphthalene	40	39.9	100	39.5	99	1	60-130/30
994-05-8	Tert-Amyl Methyl Ether	40	40.2	101	40.3	101	0	60-130/30
75-65-0	Tert Butyl Alcohol	200	204	102	209	105	2	60-130/30
108-88-3	Toluene	40	39.6	99	38.7	97	2	60-130/30
1330-20-7	Xylene (total)	120	122	102	116	97	5	60-130/30
CAS No.	Surrogate Recoveries	BSP	BSI)	Limits			
1868-53-7	Dibromofluoromethane	101%	102		60-1309	6		
2037-26-5	Toluene-D8	103%	102	%	60-130 %	6		
460-00-4	4-Bromofluorobenzene	98%	99%	6	60-1309	6		

* = Outside of Control Limits.

Laboratory Control Sample Summary

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Bate
VL647-LCS	L20469.D	1	10/24/12	XB	n/a	n/a	VL647
		-			AAF GA	12 U	V LOTI

C24374-1, C24374-2, C24374-3, C24374-4, C24374-5

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
	TPH-GRO (C6-C10)	250	293	117	60-130
CAS No.	Surrogate Recoveries	BSP	Lin	nits	
1868-53-7	Dibromofluoromethane	97%	60 -3	130%	
2037-26-5	Toluene-D8	105%	60-3	130%	
460-00-4	4-Bromofluorobenzene	98%	60- 1	130%	

Page 1 of 1

* - Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary Job Number: C24374

Project:	Mills College	5000 Ma	acArthur Blvd.,	Oakland,	CA		
Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C24331-5MS	L20481.D	1	10/24/12	XB	n/a	n/a	VL647
C24331-5MSD	L20482.D	1	10/24/12	XB	n/a	n/a	VL647
C24331-5	L20475.D	1	10/24/12	XB	n/a	n/a	VL647

The QC reported here applies to the following samples:

C24374-1, C24374-2, C24374-3, C24374-4, C24374-5

CAS No.	Compound	C24331 ug/kg	-5 Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		40	37.6	94	40.9	103	8	60-130/30
106-93-4	1,2-Dibromoethane	ND		40	40.6	102	45.6	115	12	60-130/30
107-06-2	1,2-Dichloroethane	ND		40	38.1	95	41.0	104	7	60-130/30
108-20-3	Di-Isopropyl ether	ND		40	43.1	108	45.7	116	6	60-130/30
100-41-4	Ethylbenzene	ND		40	35.5	89	38.5	97	8	60-130/30
637-92-3	Ethyl tert-Butyl Ether	ND		40	45.6	114	47.8	121	5	60-130/30
1634-04-4	Methyl Tert Butyl Ether	3.8	J	40	46.8	108	48.8	114	4	60-130/30
91-20-3	Naphthalene	ND	•	40	44.1	110	46.9	119	6	60-130/30
994-05-8	Tert-Amyl Methyl Ether	ND		40	43.8	110	46.6	118	6	60-130/30
75-65-0	Tert Butyl Alcohol	ND		200	246	123	274	139* a	11	60-130/30
108-88-3	Toluene	ND		40	36.5	91	39.8	101	9	60-130/30
1330-20-7	Xylene (total)	ND		120	108	90	117	99	8	60-130/30
CAS No.	Surrogate Recoveries	MS		MSD	C24	4331-5	Limits			
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	102% 102% 101%		103% 102% 100%	102 102 101	%	60-1309 60-1309 60-1309	6		

(a) Outside laboratory control limits.



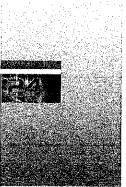
 $* \Rightarrow$ Outside of Control Limits.

Method: SW846 8260B

e-Hardcopy 2.0 **Automated Report**

11/30/12









Technical Report for

EquoLogic

Mills College - 5000 MacArthur Blvd., Oakland, CA

411.01.01

Accutest Job Number: C24713

Sampling Date: 11/08/12

Report to:

EquoLogic 15936 Barry Lane Monte Sereno, CA 95030 ldooley@equologicgroup.com

ATTN: Lee Dooley

Total number of pages in report: 60



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

man

Kesavalu M. Bagawandoss, Ph.D., J.D., Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025;2005 (L2242)

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Sample Summary

EquoLogic

Job No: C24713

Mills College - 5000 MacArthur Blvd., Oakland, CA Project No: 411.01.01

Sample Number	Collected Date	Time	Ву	Received	Matr Code		Client Sample ID
C24713-1	11/08/12	00:00	LD	11/09/12	SO	Soil	B-12, 5'
C24713-2	1 1/08/12	00:00 (LD	11/09/12	SO	Soil	B-12, 10'
C24713-3	11/08/12	00:00	LD	11/09/12	SÓ	Soil	B-12, 15'
C24713-4	11/08/12	00:00	LD	11/09/12	SO	Soil	B-12, 20'
C24713-5	11/08/12	00:00 1	LD	11/09/12	SO	Soil	B-12, 25'
C24713-6	11/08/12	00:00 1	LD	11/09/12	SO	Soil	B-13, 5'
C24713-7	11/08/12	00:00 I	LD	11/09/12	SO	Soil	B-13, 10'
C24713-8	11/08/12	00:00 I	LD	11/09/12	SO	Soil	B-13, 15'
C24713-9	11/08/12	00:00 I	LD	11/09/12	SO	Soil	B-13, 20'
C24713-10	11/08/12	00:00 I	"D	11/09/12	SO	Soil	B-13, 22'
C24713-11	11/08/12	DO:00 L	.D 1	1/09/12	AQ (Ground Water	B-12
C24713-12	11/08/12	DO:00 L	.D 1	1/09/12	AQ	Ground Water	B-13
C24713-13	11/08/12 ()0:00 L	.D 1	1/09/12	so s	Soil	B-12, 29'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Summary of Hits

Job Number:	C24713
Account:	EquoLogic
Project: Collected:	Mills College - 5000 MacArthur Blvd., Oakland, CA 11/08/12

Lab Sample II Analyte	O Client Samp	e ID Result/ Qual	RL	MDL	Units	Method
C24713-1	B-12, 5'	**************************************				anda ka ay ang ng mga ng mg
Toluene Xylene (total)		1.5 J 1.0 J	4.9 9.8	0,49 0.98	ug/kg ug/kg	SW846 8260B SW846 8260B
C24713-2	B-12, 10'					
Toluene TPH (C10-C28))	0.62 J 3.17 J	4.9 9.8	0.49 2.4	ug/kg mg/kg	SW846 8260B SW846 8015B M
C24713-3	B-12, 15'					
Toluene TPH (C10-C28)	,	0.55 J 5.12 J	4.8 10	0.48 2.5	ug/kg mg/kg	SW846 8260B SW846 8015B M
C24713-4	B-12, 20'					
TPH (C10-C28)		3.60 J	9.5	2.4	mg/kg	SW846 8015B M
C24713-5	B-12, 25'					
ТРН (С10-С28)		9.30 J	9.9	2.5	mg/kg	SW846 8015B M
C24713-6	B-13, 5'					
FPH (C10-C28)		4.02 J	10	2.5	mg/kg	SW846 8015B M
024713-7	B-13, 10'					
Foluene Kylene (total) FPH (C10-C28)		1.5 J 3.1 J 7.08 J	4.9 9.7 9.9	0.49 0.97 2.5	ug/kg ug/kg mg/kg	SW846 8260B SW846 8260B SW846 8015B M
C24713-8	B-13, 15'					
Naphthalene ^a FPH (C10-C28)		2910 1400	1700 99	340 25	ug/kg mg/kg	SW846 8260B SW846 8015B M
24713-9	B-13, 20'					
РН (С10-С28)		2.85 J	9.9	2.5	mg/kg	SW846 8015B M
24713-10	B-13, 22'					
laphthalene		2.2 J	4.9	0.98	ug/kg	SW846 8260B



Page 1 of 2

Summary of Hits Job Number: C24713

 Job Number:
 C24713

 Account:
 EquoLogic

 Project:
 Mills College - 5000 MacArthur Blvd., Oakland, CA

 Collected:
 11/08/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
ТРН (С10-С28)	,	3.51 J	9.9	2.5	mg/kg	SW846 8015B M
C24713-11	B-12					
ТРН (С10-С28)		0.0837 J	0.15	0.038	mg/l	SW846 8015B M
C24713-12	B-13					
Naphthalene ^b TPH (C10-C28)		18.0 9.46	5.0 1.0	0.50 0.25	ug/l mg/l	SW846 8260B SW846 8015B M
C24713-13	B-12, 29'					
Foluene Xylene (total) FPH (C10-C28)		1.5 J 1.7 J 3.01 J	4.8 9.6 9.9	0.48 0.96 2.5	ug/kg ug/kg mg/kg	SW846 8260B SW846 8260B SW846 8015B M

(a) Dilution required due to high concentration of non-target hydrocarbons.

(b) Sample vial contained more than 0.5cm of sediment.

Page 2 of 2



Section 3



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Sample Results

Report of Analysis



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Client Sar Lab Samp Matrix: Method: Project:		00 MacArthur	Blvd., Oal	dand, CA	Dat Per	e Received:	11/08/12 11/09/12 n/a ^a
Run #1 Run #2	File ID DF M36433.D 1	Analyzed 11/13/12	By XB	Prep] n/a	Date	Prep Batch n/a	Analytical Batch VM1120
Run #1 Run #2	Initial Weight 5.09 g		an de constantin de la con				
BTEX, Ox	ygenates			<u>,</u>		**********	
CAS No.	Compound	Result	RL	MDL	Units	Q	
1-43-2	Benzene	ND	4.9	0.49	na/ha		
08-88-3	Toluene	1.5	4.9	0.49	ug/kg ug/kg	r	
00-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	J	
330-20-7	Xylene (total)	1.0	9.8	0.98	ug/kg	т	
06-93-4	1,2-Dibromoethane	ND	4.9	0.49	ug/kg	J	
07-06-2	1,2-Dichloroethane	ND	4.9	0.49	ug/kg		
08-20-3	Di-Isopropyl ether	ND	4.9	0.49	ug/kg		
37-92-3	Ethyl tert-Butyl Ether	ND	4.9	0.49	ug/kg		
634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg		
1-20-3	Naphthalene	ND	4.9	0.98	ug/kg		
94-05-8	Tert-Amyl Methyl Ether	ND	4,9	0.49	ug/kg		
5-65-0	Tert Butyl Alcohol	ND	39	9.8	ug/kg ug/kg		
AS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its		
68-53-7	Dibromofluoromethane	103%		60-1	2A02		
)37-26-5	Toluene-D8	98%		60-1 60-1			
60-00-4	4-Bromofluorobenzene	97%		60-1			

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



Conception of the

				Repo	rt of Ar	nalysi	S		Page 1 of
Client Sar Lab Samj Matrix: Method: Project:	ple ID: C24 SO SW			SW846 3545/ 000 MacArthur		land, C.	Date Perc	-	1/08/12 1/09/12 /a ^a
Run #1 Run #2	File ID HH027971.I	DI) 1	7	Analyzed 11/12/12	By LB	Prep 11/12		Prep Batch OP7020	Analytical Batch GHH856
Run #1 Run #2	Initial Weig 10.1 g		nal Vo) ml	blume	de entering and a second s		1997 - San		
FPH Extr	actable	<u>, , , , , , , , , , , , , , , , , , , </u>		·······	********	<u> </u>	- <u> </u>		
CAS No.	Compound			Result	RL	MDL	Units	Q	
	ТРН (С10-С	228)		ND	9.9	2.5	mg/kg		
CAS No.	Surrogate H	ecoveri	es	Run# 1	Run# 2	Lir	nits		
30-01-3	Hexacosane			82%		45-	140%		

(a) All results reported on a wet weight basis.

ND = Not detected **MDL - Method Detection Limit** RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blankN = Indicates presumptive evidence of a compound



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	Page 1 of 1						
Client San Lab Samp Matrix: Method: Project:	le ID: C24713-2 SO - Soil SW846 82	60B ege - 5000 MacArthu	ır Blvd., Oal	dand, CA	Date Perc	e Sampled: e Received: cent Solids:	11/08/12 11/09/12 n/a ^a
File ID Run #1 M36434.D Run #2		DF Analyzed 11/13/12	By XB	Prep 1 n/a	Date	Prep Batcl n/a	h Analytical Batcl VM1120
Run #1 Run #2	Initial Weight 5.08 g		¹		┉┙╫╕╍╍╼╼╺╌╌╞╸ ┯╾╶╝╍╶╶╸	andren and a second	denne Arthur - Inne Angelen and Angele
BTEX, Ox	ygenates	να τ _α τ ^α τη					
CAS No.	Compound	Result	RL	MDL	Units	Q	
71-43-2	Benzene	ND	4.9	0.49	and then		
108-88-3	Toluene	0.62	4.9	0.49	ug/kg ug/kg	J	
100-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	J	
330-20-7	Xylene (total)	ND	9.8	0.98	ug/kg		
06-93-4	1,2-Dibromoethan		4.9	0.49	ug/kg		
07-06-2	1,2-Dichloroethane		4.9	0.49	ug/kg		
.08-20-3	Di-Isopropyl ether	ND	4.9	0.49	ug/kg		
37-92-3	Ethyl tert-Butyl Eth		4.9	0.49	ug/kg		
634-04-4	Methyl Tert Butyl	Ether ND	4.9	0.98	ug/kg		
1-20-3	Naphthalene	ND	4.9	0.98	ug/kg		
94-05-8	Tert-Amyl Methyl		4.9	0.49	ug/kg		
5-65-0	Tert Butyl Alcohol	ND	39	9.8	ug/kg		
AS No.	Surrogate Recover	ries Run#1	Run# 2	Lim	its		
868-53-7	Dibromofluorometh	ane 104%		60-1	30%		
037-26-5	Toluene-D8	96%		60-1			
60-00-4	4-Bromofluorobenz	ene 96%		60-1			

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound





			Repo	ort of A1	nalysis	,		Page 1 of 1
Client Sa Lab Samj Matrix: Method: Project:	ple ID: C2 SO SW	2, 10' 4713-2 ~ Soif /846 8015B ls College	M SW846 3545 - 5000 MacArthur		land, CA	Date	e Received: 1	1/08/12 1/09/12 /a ^a
Run #1 Run #2	File ID HH027972.1	DF D 1	Analyzed 11/12/12	By LB	Prep I 11/12/		Prep Batch OP7020	Analytical Batch GHH856
Run #1 Run #2	Initial Weig 10.2 g	ht Final 1.0 n	Volume nl	9 - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 2		**************************************	**************************************	αν τη δελαγοριατική το ματρογραφική το που τη το πολογιατική το πολογιατική το πολογιατική το πολογιατική το π αν τη θ ^α τα πολογιατική το ματρογραφική το πολογιατική το πολογιατική το πολογιατική το πολογιατική το ματρογραφική το πολογιατική το πολογια το πολογια το πολογιατική το πολογιατική το πολογιατική το πολογιατική το πολογια το πολογια το πολογια το πολογια το πολογια το πολογιατική το πολογιατική το πολογια
TPH Extr	actable	*			41			<u> </u>
CAS No.	Compound		Result	RL	MDL	Units	Q	
	ТРН (С10-0	C28)	3.17	9.8	2.4	mg/kg	J	
CAS No.	Surrogate 1	Recoveries	Run# 1	Run# 2	Lim	its		
630-01-3	Hexacosane		66%		45-1	40%		
a) A 11	The second of t							

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

- E = Indicates value exceeds calibration range
- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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		Repo	ort of A	nalysis	5		Page 1 of
Client Sar Lab Samp Matrix: Method: Project:	ole ID: C24713-3 SO - Soil SW846 8260)B e - 5000 MacArthur	· Blvd., Oal	dand, CA	Dat Pero	e Sampled: e Received: cent Solids:	11/08/12 11/09/12 n/a ^a
Run #1 Run #2	File ID DF M36435.D 1	Analyzed 11/13/12	By XB	Prep 1 n/a	Date	Prep Batch n/a	Analytical Batch VM1120
Run #1 Run #2	Initial Weight 5.18 g			₩₩,			nen an
BTEX, Ox	ygenates	ang ₁ 999 - Indonesia Salah na ang ing ing ing ing ing ing ing ing ing i				·····	
CAS No.	Compound	Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7 106-93-4 107-06-2 108-20-3 137-92-3	Benzene Toluene Ethylbenzene Xylene (total) 1,2-Dibromoethane 1,2-Dichloroethane Di-Isopropyl ether Ethyl tert-Butyl Ether	ND 0.55 ND ND ND ND ND	4.8 4.8 9.7 4.8 4.8 4.8 4.8 4.8	0.48 0.48 0.48 0.97 0.48 0.48 0.48 0.48	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	J	
634-04-4 1-20-3 94-05-8 5-65-0	Methyl Tert Butyl Et Naphthalene Tert-Amyl Methyl Et Tert Butyl Alcohol	ND	4.8 4.8 4.8 39	0.97 0.97 0.48 9.7	ug/kg ug/kg ug/kg ug/kg		
AS No.	Surrogate Recoverie	s Run#1	Run# 2	Lim	its		
868-53-7 037-26-5 60-00-4	Dibromofluoromethar Toluene-D8 4-Bromofluorobenzen	96%		60-1 60-1 60-1	30%		

(a) All results reported on a wet weight basis.

ND = Not detected **MDL - Method Detection Limit**

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



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.			Repo	ort of Ar	alysis			Page 1 of 1
Client San Lab Samj Matrix: Method: Project:	ple ID: C2471 SO - S SW840	3-3 oil 5 8015B M	SW846 3545 00 MacArthur		land, CA	Date Perc	e Received: 1	1/08/12 1/09/12 /a ^a
Run #1 Run #2	File 1D HH027974.D	DF 1	Analyzed 11/12/12	By LB	Prep I 11/12/		Prep Batch OP7020	Analytical Batch GHH856
Run #1 Run #2	Initial Weight 10.0 g	Final Vo 1.0 ml	lume	W Strangender Alexandra (* 1994) 1997 - Carlon Strangender (* 1996) 1997 - Carlon Strangender (* 1996)	*****		(1997), fait de la construcción de	
TPH Extr	actable							
CAS No.	Compound		Result	RL	MDL	Units	Q	
	TPH (C10-C28	3)	5.12	10	2.5	mg/kg	J	
CAS No.	Surrogate Rec	overies	Run# 1	Run# 2	Lim	its		
330-01-3	Hexacosane		56%		45-1	40%		
	_							

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



-	,		Repo	ort of A	nalysis	6		Page 1 of 1
Client San Lab Samp Matrix: Method: Project:	le ID:	B-12, 20' C24713-4 SO - Soil SW846 8260B Mills College - 5	000 MacArthur	Blvd., Oak	land, CA	Dat Per	e Sampled: e Received: cent Solids:	11/08/12 11/09/12 n/a ^a
Run #1 Run #2	File ID M36436	DF .D 1	Analyzed 11/13/12	By XB	Prep 1 n/a	Date	Prep Batcl n/a	Analytical Batch VM1120
Run #1 Run #2	Initial W 5.22 g	/eight	7: 4:					na de la ferma de la desta de la construir de la de la desta d La construir de la desta de
BTEX, Ox	ygenates			44-47- <u>6</u>				**************************************
CAS No.	Compo	und	Result	RL	MDL	Units	Q	
71-43-2	Benzene		ND	4.8	0.48	ug/kg		
108-88-3	Toluene		ND	4.8	0.48	ug/kg		
100-41-4	Ethylber		ND	4.8	0.48	ug/kg		
1330-20-7	Xylene t		ND	9.6	0.96	ug/kg		
106-93-4		romoethane	ND	4.8	0.48	ug/kg		
107-06-2 108-20-3		loroethane	ND	4.8	0.48	ug/kg		
637-92-3		opyl ether	ND	4.8	0.48	ug/kg		
1634-04-4		rt-Butyl Ether	ND	4.8	0.48	ug/kg		
91-20-3	Naphtha	Fert Butyl Ether	ND	4.8	0.96	ug/kg		
994-05-8		iene yl Methyl Ether	ND	4.8	0.96	ug/kg		
75-65-0		yl Alcohol	ND ND	4.8 38	0,48 9.6	ug/kg ug/kg		
CAS No.	Surroga	te Recoveries	Run# 1	Run# 2	Lim	its		
868-53-7		fluoromethane	107%		60-1	30%		
2037-26-5	Toluene-	1 T	98%		60-1			
60-00-4	4-Bromo	fluorobenzene	97%			30%		

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = **Reporting Limit**

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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Client San Lab Samp Matrix: Method: Project:	ole ID; (S S		-4 61 8015B M	SW846 3545. 00 MacArthur		and, CA	Date	Received: 11	!/08/12 !/09/12 a ^a
Run #1 Run #2	File ID HH02797	5.D	DF 1	Analyzed 11/12/12	By LB	Prep I 11/12/2		Prep Batch OP7020	Analytical Batch GHH856
Run #1 Run #2	Initial Wo 10.5 g	eight	Final Vol 1.0 ml	ume					
TPH Extra	actable		<u></u>					<u>,, , , , , , , , , , , , , , , , , , ,</u>	المراجعة من المراجعة (1999 من من من المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع ال
CAS No.	Compou	nd		Result	RL	MDL	Units	Q	
	ТРН (С1	0-C28))	3.60	9.5	2.4	mg/kg	J	
AS No.	Surrogat	e Reco	veries	Run# 1	Run# 2	Lim	its		
30-01-3	Hexacosa	ne		72%		45-1	40%		

(a) All results reported on a wet weight basis.

ND = Not detected **MDL** - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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-			Repo	ort of A	nalysi	5		Page 1 of
Client Sar Lab Samp Matrix: Method: Project:	mple ID: B-12, 25' ple ID: C24713-5 SO - Soil SW846 8260B Mills College - 5		00 MacArthur	Blvd., Oal	kland, CA	Dat	e Sampled: e Received: cent Solids:	11/08/12 11/09/12
Run #1 Run #2	File ID M36438,D	DF 1	Analyzed 11/13/12	By XB	Prep 1 n/a	Date	Prep Batch n/a	Analytical Batch VM1120
Run #1 Run #2	Initial Weight 5.16 g						849-94-949-949-949-949-949-949-949-949-9	an an an an an an an an an an an an an a
BTEX, Ox	ygenates	· · · · · · · · · · · · · · · · · · ·						
CAS No.	Compound		Result	RL	MDL	Units	Q	
/1-43-2	Benzene		ND	4.8	0.48	ug/kg		
08-88-3	Toluene		ND	4.8	0.48	ug/kg		
.00-41-4	Ethylbenzene		ND	4.8	0.48	ug/kg ug/kg		
330-20-7	Xylene (total)		ND	9.7	0.97	ug/kg		
06-93-4	1,2-Dibromoet		ND	4.8	0.48	ug/kg		
07-06-2	1,2-Dichloroet	hane	ND	4.8	0.48	ug/kg		
08-20-3	Di-Isopropyl ei	ther	ND	4.8	0.48	ug/kg		
37-92-3	Ethyl tert-Buty	1 Ether	ND	4.8	0.48	ug/kg		
634-04-4	Methyl Tert Bu	utyl Ether	ND	4.8	0.97	ug/kg		
1-20-3	Naphthalene	-	ND	4.8	0.97	ug/kg		
94-05-8	Tert-Amyl Met		ND	4.8	0.48	ug/kg		
5-65-0	Tert Butyl Alco	ohol	ND	39	9.7	ug/kg		
AS No.	Surrogate Reco	overies	Run# 1	Run# 2	Limi	ts		
368-53-7	Dibromofluoro	methane	104%		60.11	300/		
)37-26-5	Toluene-D8		97%		60-1			
60-00-4	4-Bromofluorob	oenzene	96%		60-13 60-13			

(a) All results reported on a wet weight basis.

ND = Not detected **MDL - Method Detection Limit**

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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)	······································			Repo	rt of Ar	nalysis			Page 1 of
Client Sau Lab Samp Matrix: Method: Project:	ple ID:	C2471: SO - So SW846	B-12, 25' C24713-5 Date Sampled: SO - Soil Date Received: SW846 8015B M SW846 3545A Percent Solids: Mills College - 5000 MacArthur Blvd., Oakland, CA						1/08/12 1/09/12 /a ^a
Run #1 Run #2	File ID HH0279	976.D	DF 1	Analyzed 11/12/12	By LB	Ргер I 11/12/		Prep Batch OP7020	Analytical Batch GHH856
Run #1 Run #2	Initial V 10.1 g	Veight	Final Vo 1.0 ml	olume				4-1-1-1-1	الله والمراجع المراجع br>المراجع المراجع
IPH Extra	actable								, , , , , , , , , , , , , , , , , , ,
CAS No.	Compo	und		Result	RL	MDL	Units	Q	
	ТРН (С	10-C28)	9.30	9.9	2.5	mg/kg	J	
CAS No.	Surrogate Recoveries		Run# 1	Run# 2	Lim	its			
30-01-3	Hexacosane		65%		45-1	40%			
-) A 17	14								

(a) All results reported on a wet weight basis.

ND = Not detected **MDL** - Method Detection Limit **RL** = Reporting Limit

- E = Indicates value exceeds calibration range
- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



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······		Repo	ort of A	nalysis	5		Page 1 of
Client Sar Lab Samp Matrix: Method: Project:)00 MacArthur	Blvd., Oal	dand, CA	Dat Perc	e Received:	11/08/12 11/09/12 n/a ^a
Run #1 Run #2	File ID DF M36439.D 1	Analyzed 11/13/12	By XB	Prep 1 n/a	Date	Prep Batch n/a	Analytical Batch VM1120
Run #1 Run #2	Initial Weight 5.05 g	<u>а топо до стало на стало до стало на стало на стало на стало на стало на стало на стало на стало на стало на</u>					44
STEX, Ox	ygenates	ور پر پر ان در ان پر ان کر /del>	·····				
CAS No.	Compound	Result	RL.	MDL	Units	Q	
1-43-2	Benzene	ND	5.0	0.50	na/ka		
08-88-3	Toluene	ND	5.0	0.50	ug/kg ug/kg		
00-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg		
330-20-7	Xylene (total)	ND	9.9	0.99	ug/kg		
06-93-4	1,2-Dibromoethane	ND	5.0	0,50	ug/kg		
07-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg		
08-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg		
37-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg		
634-04-4	Methyl Tert Butyl Ether	ND	5.0	0.99	ug/kg		
1-20-3	Naphthalene	ND	5.0	0.99	ug/kg		
94-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg		
5-65-0	Tert Butyl Alcohol	ND	40	9.9	ug/kg		
AS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its		
	Dibromofluoromethane 108% co. taced						
368-53-7	Dibromofluoromethane	108%		CO 4	2007		
368-53-7)37-26-5	Dibromofluoromethane Toluene-D8	108% 99%		60-1 60-1			

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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			Repo	ort of A	nalysis	5		Page 1 of	
Client San Lab Samj Matrix: Method: Project:	ple ID: C24 SO - SW8	713-6 Soil 46 8015B M	SW846 3545 000 MacArthur	A Blvd., Oak	dand, CA	Date	Date Sampled: 11/08/12 Date Received: 11/09/12 Percent Solids: n/a ^a		
Run #1 Run #2	File ID HH028019.D	DF 1	Analyzed 11/13/12	By JH	Prep Date 11/13/12		Prep Batch OP7027	Analytical Batch GHH857	
Run #1 Run #2	Initial Weigh 10.0 g	t Final Vo 1.0 ml	olume			<u></u>		an de comença de popular de la comencia de la comencia de la comencia de la comencia de la comencia de la come La comencia de la come	
TPH Extra	actable	****				······	**************************************		
CAS No.	Compound		Result	RL	MDL	Units	Q		
	ТРН (С10-С	28)	4.02	10	2.5	mg/kg	J		
CAS No.	Surrogate Recoveries Run# 1		Run# 1	Run# 2	Lim	its			
30-01-3	Hexacosane	61%		45-1	40%				
3 A 11									

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



		Page 1 of 1					
Client San Lab Samp Matrix: Method: Project:	le ID: C24713-7 SO - Soil SW846 8260)B ie - 5000 MacArthur	Blvd., Oal	land, CA	Dat Pero	e Received:	11/08/12 11/09/12 n/a ^a
Run #1 Run #2	File ID DF M36443.D 1	Analyzed 11/13/12	By XB	Prep 1 n/a	Date	Prep Batch n/a	Analytical Batch VM1120
Run #1 Run #2	Initial Weight 5.14 g				*******	1994 - 1991 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 -	
BTEX, Ox	ygenates			*****			
CAS No.	Compound	Result	RL	MDL	Units	Q	
/1-43-2	Benzene	ND	4.9	0.49	ug/kg		
08-88-3	Toluene	1.5	4.9	0.49	ug/kg	J	
00-41-4	Ethylbenzene	ND	4.9	0.49	ug/kg	J	
330-20-7	Xylene (total)	3.1	9.7	0.97	ug/kg	J	
06-93-4	1,2-Dibromoethane	ND	4.9	0.49	ug/kg	J	
07-06-2	1,2-Dichloroethane	ND	4.9	0.49	ug/kg		
08-20-3	Di-Isopropyl ether	ND	4.9	0.49	ug/kg		
37-92-3	Ethyl tert-Butyl Ethe	r ND	4.9	0.49	ug/kg		
634-04-4	Methyl Tert Butyl Et	her ND	4.9	0.97	ug/kg		
1-20-3	Naphthalene	ND	4.9	0.97	ug/kg		
94-05-8	Tert-Amyl Methyl E	ther ND	4.9	0.49	ug/kg		
5-65-0	Tert Butyl Alcohol	ND	39	9.7	ug/kg		
AS No.	Surrogate Recoverie	s Run#1	Run# 2	Lim	its		
868-53-7	Dibromofluorometha	ne 109%		60-1	30%		
037-26-5	Toluene-D8	96%		60-1			
50-00-4	4-Bromofluorobenzer	ie 98%		60-1			

(a) All results reported on a wet weight basis.

ND = Not detected**MDL - Method Detection Limit**

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



10:00

			Repo	rt of An	alysis			Page 1 of
Client Sar Lab Sam Matrix: Method: Project:	ple ID: C2471 SO - S SW846	3-7 oil 5 8015B M	I SW846 3545/ 000 MacArthur		land, CA	Date Perc	Received: 11	L/08/12 L/09/12 a ^a
Run #1 Run #2	File ID HH028020.D	DF 1	Analyzed 11/14/12	By JH	Prep D 11/13/1		Prep Batch OP7027	Analytical Batch GHH857
Run #1 Run #2	Initial Weight 10.2 g	Final V 1.0 ml	⁷ olume					
TPH Extr	actable							
CAS No.	Compound		Result	RL	MDL	Units	Q	
	ТРН (С10-С2	8)	7.08	9.9	2.5	mg/kg	J	
CAS No.	Surrogate Re	coveries	Run# 1	Run# 2	Lim	its		
630-01-3	Hexacosane		47%		45-1	40%		
	a a							

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

 $\mathbf{E} = \mathbf{Indicates value exceeds calibration range}$

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



			Repo	rt of A1	nalysis			Page 1 of 1
Client San Lab Samp Matrix: Method: Project:	le ID: C2471 SO - S SW846	3-8 oil 5 8260B	00 MacArthur	Received: 11	11/08/12 11/09/12 n/a ^a			
Run #1 ^b Run #2	File ID M36450.D	DF 1	Analyzed 11/13/12	By XB	Prep Da n/a	ate	Prep Batch n/a	Analytical Batch VM1120
Run #1 Run #2	Initial Weight 7.45 g	Final Vo 5.0 ml	blume Metha 10.0 u	anol Aliqu I	ot			
BTEX, Ox	ygenates							
CAS No.	Compound		Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4	Benzene Toluene Ethylbenzene		ND ND ND	1700 1700 1700	170 170 170	ug/kg ug/kg ug/kg		

					0 0
100-41-4	Ethylbenzene	ND	1700	170	ug/kg
1330-20-7	Xylene (total)	ND	3400	340	ug/kg
106-93-4	1,2-Dibromoethane	ND	1700	170	ug/kg
107-06-2	1,2-Dichloroethane	ND	1700	170	ug/kg
108-20-3	Di-Isopropyl ether	ND	1700	170	ug/kg
637-92-3	Ethyl tert-Butyl Ether	ND	1700	170	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	1700	340	ug/kg
91-20-3	Naphthalene	2910	1700	340	ug/kg
994-05-8	Tert-Amyl Methyl Ether	ND	1700	170	ug/kg
75-65-0	Tert Butyl Alcohol	ND	13000	3400	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lin	nits
1868-53-7	Dibromofluoromethane	92%		60- 1	130%
2037-26-5	Toluene-D8	96%		60 -1	130%
460-00-4	4-Bromofluorobenzene	100%		60- 1	130%

(a) All results reported on a wet weight basis.

(b) Dilution required due to high concentration of non-target hydrocarbons.

ND = Not detected **MDL - Method Detection Limit**

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



			Repo	ort of An	alysis			Page 1 of 1
Client San Lab Sam Matrix: Method: Project:	ple ID: C24713 SO - So SW846	3-8 5il 8015B M	SW846 3545. 000 MacArthur		and, CA	Date Perc	Received: 1	1/08/12 1/09/12 /a ^a
Run #1 Run #2			Analyzed 11/14/12	By JH			Prep Batch OP7027	Analytical Batch GHH858
Run #1 Run #2	Initial Weight 10.2 g	Final Vo 1.0 ml	olume			·····	an an an an an an an an an an an an an a	
TPH Extr	actable						 	*******
CAS No.	Compound		Result	RL	MDL	Units	Q	
	TPH (C10-C28)	1400	99	25	mg/kg		
CAS No.	Surrogate Rec	Run# 1	Run# 2	Lim	its			
630-01-3	Hexacosane	59%		45-1	40%			

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound

C24713 C2 of 60

	Report of Analysis											
Client Sar Lab Samp Matrix: Method: Project:	nple ID; ble ID;	C24713 SO - So SW846	1-9 51] 8260B	000 MacArthur	Blvd., Oal	kland, CA	Date	e Sampled: e Received: cent Solids:	11/08/12 11/09/12 n/a ^a			
Run #1 Run #2	File ID DF L20879.D 1			Analyzed 11/13/12	By XB	Prep I n/a	Date	Prep Batcl n/a	h Analytical Batch VL661			
Run #1 Run #2	Initial V 5.18 g	Weight					· · · · · · · · · · · · · · · · · · ·		ter alle av de de la de la de la de la de la de la de la de la de la de la de la de la de la de la de la de la Anna de la			
BTEX, Ox	ygenates			₩		·····						
CAS No.	Compo	ound		Result	RL	MDL	Units	Q				
71-43-2 108-88-3 100-41-4 1330-20-7	Benzen Toluen Ethylbe Xylene	e enzene (total)		ND ND ND ND	4.8 4.8 4.8 9.7	0.48 0.48 0.48 0.97	ug/kg ug/kg ug/kg ug/kg					
106-93-4 107-06-2 108-20-3 537-92-3	1,2-Dic Di-Isop Ethyl te	promoeth hloroeth ropyl eth ert-Butyl	ane Ier Ether	ND ND ND ND	4.8 4.8 4.8 4.8	0.48 0.48 0.48 0.48	ug/kg ug/kg ug/kg ug/kg					
1634-04-4 91-20-3 994-05-8 75-65-0	Methyl Naphtha Tert-An	Tert But	yl Ether yl Ether	ND ND ND	4.8 4.8 4.8	0.97 0.97 0.48	ug/kg ug/kg ug/kg					
CAS No.		ate Recov		ND Run# 1	39 Run# 2	9.7 Limi	ug/kg its					
868-53-7 037-26-5 60-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene			98% 91% 97%		60-13 60-13 60-13	30%					

(a) All results reported on a wet weight basis.

ND = Not detected **MDL** - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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			Repo	ort of Ar	nalysis			Page 1 of
Client Sa Lab Sam Matrix: Method: Project:	- SO - S SW84(3-9 oil 5 8 015B M	SW846 3545 00 MacArthur		e Received: 1	d: 11/09/12		
Run #1 Run #2	File ID GG39087.D	DF 1	Analyzed 11/15/12	By LB			Prep Batch OP7027	Analytical Batch GGG1036
Run #1 Run #2	Initial Weight 10.1 g	Final Vo 1.0 ml	lume	برین بر باده برین به این این این با این این این این این این این این این ای			**************************************	nder i film og første ander og forste som en som et som et som et som et som et som et som et som et som et so
TPH Extr	actable		*****	"!! `~ `````````````````````````````````	÷			
CAS No.	Compound		Result	RL	MDL	Units	Q	
	TPH (C10-C28)	2.85	9.9	2.5	mg/kg	J	
CAS No.	Surrogate Rec	Surrogate Recoveries		Run# 2	Lim	its		
630-01-3	Hexacosane		90%		45-1	40%		
-) A 11 .	allan anna aite X							

(a) All results reported on a wet weight basis.

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

- E = Indicates value exceeds calibration range
- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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		Report of Analysis								
Client San Lab Samp Matrix: Method: Project:		B-13, 22' C24713-10 SO - Soil SW846 8260B Mills College - 50	00 MacArthur	Blvd., Oakl	and, CA	Date Perc	e Sampled: e Received: cent Solids:	11/08/12 11/09/12 n/a ^a		
Run #1 Run #2	File ID L20884		Analyzed 11/13/12	By XB	Prep E n/a	Date	Prep Bate n/a	h Analytical Batch VL661		
Run #1 Run #2	Initial 5.09 g	Weight						<u></u>		
BTEX, Ox	ygenates									
CAS No.	Comp	ound	Result	RL	MDL	Units	Q			
71-43-2 108-88-3	Benzer Toluer	==	ND ND	4.9 4.9	0.49 0.49	ug/kg ug/kg				
100-41-4 1330-20-7		enzene e (total)	ND ND	4.9 9.8	0.49 0.98	ug/kg ug/kg				
106-93-4 107-06-2	1,2-Di	bromoethane chloroethane	ND ND	4.9 4.9	0.49 0.49	ug/kg ug/kg				
108-20-3 637-92-3	Ethyl t	propyl ether ert-Butyl Ether	ND ND	4.9 4.9	0.49 0.49	ug/kg ug/kg				
1634-04-4 91-20-3	Napht		ND 2.2	4.9 4.9	0,98 0.98	ug/kg ug/kg	J			
994-05-8 75-65-0		myl Methyl Ether utyl Alcohol	ND ND	4.9 39	0.49 9.8	ug/kg ug/kg				
CAS No.	Surrog	ate Recoveries	Run# 1	Run# 2	Lim	its				
1868-53-7	Dibron	ofluoromethane	98%		60-1	30%				

89%

98%

A

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(a) All results reported on a wet weight basis.

4-Bromofluorobenzene

Toluene-D8

2037-26-5

460-00-4

ND = Not detected **MDL - Method Detection Limit RL** = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

60-130%

60-130%

- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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Report of Analysis Page 1 of 1 Client Sample ID: B-13, 22' Lab Sample ID: C24713-10 Date Sampled: 11/08/12 Matrix: SO - Soil Date Received: 11/09/12 SW846 8015B M SW846 3545A Method: Percent Solids: n/a a Project: Mills College - 5000 MacArthur Blvd., Oakland, CA File ID DF Analyzed Ву **Prep Date Prep Batch Analytical Batch** HH028023.D Run #1 1 11/14/12 JH 11/13/12 **OP7027 GHH857** Run #2 **Initial Weight Final Volume** Run #1 10.1 g 1.0 ml Run #2 **TPH Extractable** CAS No. Compound Result RL MDL Units Q **TPH (C10-C28)** 3.51 9.9 2.5 mg/kg J CAS No. Surrogate Recoveries Run#1 Run# 2 Limits

66%

(a) All results reported on a wet weight basis.

Hexacosane

630-01-3

ND = Not detected MDL - Method Detection Limit RL \approx Reporting Limit E = Indicates value exceeds calibration range

J = Indicates an estimated value

45-140%

- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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				Repo	ort of A	nalysis			Page 1 of		
Client San Lab Samp Matrix: Method: Project:							Date Sampled: 11/08/12 Date Received: 11/09/12 Percent Solids: n/a				
Run #1 ^a Run #2	File ID Q11709	.D	DF 1	Analyzed 11/14/12	By TN	Prep E n/a	Date	Prep Batch n/a	Analytical Batch VQ458		
Run #1 Run #2	Purge V 10.0 ml		e		9999	, γ. (α), α _τ ,	<u></u>	n – ka – Ka – Ka – ka – ka – ka – ka – ka	анан — — — — — — — — — — — — — — — — — —		
BTEX, Oz	vgenates		· · · · · · · · · · · · · · · · · · ·				······································	**** *********************************			
CAS No.	Compo	bund		Result	RL	MDL.	Units	Q			
71-43-2 108-88-3	Benzen Toluen			ND ND	1.0 1.0	0.20 0.20	ug/l				
100-41-4 1330-20-7	Ethylbe Xylene	nzene		ND ND	1.0 1.0 2.0	0.20 0.20 0.46	ug/l ug/l ug/l				
106-93-4 107-06-2	1,2-Dib 1,2-Dic	romo	ethane	ND ND	1.0 1.0	0.20	ug/l ug/l				
108-20-3	Di-Isop			ND	2.0	0.22	ug/l				

CAS No.	Compound	Result	RL	MDL	Units	1
71-43-2	Benzene	ND	1.0	0.20	ug/I	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/1	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/1	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	its	
1868-53-7	Dibromofluoromethane	105%		60-1	30%	
2037-26-5	Toluene-D8	97%		60-1		
460-00-4	4-Bromofluorobenzene	99%		60-1		

(a) Sample vial contained more than 0.5cm of sediment.

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit E = Indicates value exceeds calibration range

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 $\mathbf{J} = \mathbf{Indicates}$ an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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			Repo	rt of An	alysis			Page 1 of 1
Client San Lab Samp Matrix: Method: Project:	ole ID: C247 AQ - SW84	Ground Wat l6 8015B M	er SW846 3510 00 MacArthur		and, CA	Date Per c	-	1/08/12 1/09/12 a
Run #1 Run #2	File ID HH028015.D	DF 1	Analyzed 11/13/12	By JH	Prep D 11/12/1		Prep Batch OP7024	Analytical Batch GHH857
Ran #1 Ran #2	Initial Volum 660 ml	e Final Vo 1.0 ml	lume		i iii			
TPH Extra	actable							
CAS No.	Compound		Result	RL	MDL	Units	Q	
	ТРН (С10-С	28)	0.0837	0.15	0.038	mg/l	J	
CAS No.	Surrogate R	ecoveries	Run# 1	Run# 2	Lim	its		
630-01-3	Hexacosane		86%		45-1	40%		

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



		Repo	ort of An	alysis			Page 1 of 1
Client Sam Lab Samp Matrix: Method: Project:			Blvd., Oakl	and, CA	Date Perc	· · · · ·	1/08/12 1/09/12 /a
Run #1 ^a Run #2	File ID DF Q11710.D 1	Analyzed 11/14/12	By TN	Prep I n/a	Date	Prep Batch n/a	Analytical Batch VQ458
Run #1 Run #2	Purge Volume 10.0 ml						
BTEX, Ox	ygenates						
CAS No.	Compound	Result	RL	MDL	Units	Q	
71-43-2	Benzene	ND	1.0	0.20	ug/l		
108-88-3	Toluene	ND	1.0	0.20	ug/l		
100-41-4	Ethylbenzene Yedere (tetel)	ND	1.0	0.20	ug/l		
1330-20-7 106-93-4	Xylene (total) 1,2-Dibromoethane	ND	2.0	0.46	ug/1		
108-93-4 107-06-2	1,2-Dichloroethane	ND ND	1.0 1.0	0.20	ug/l		
107-00-2	Di-Isopropyl ether	NĎ	2.0	0.20 0.22	ug/1		
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l		
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l ug/l		
91-20-3	Naphthalene	18.0	5.0	0.50	ug/l		
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l		
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its		

(a) Sample vial contained more than 0.5cm of sediment.

106%

93%

101%

Dibromofluoromethane

4-Bromofluorobenzene

Toluene-D8

MDL - Method Detection Limit ND = Not detected

RL = Reporting Limit

1868-53-7

2037-26-5

460-00-4

E = Indicates value exceeds calibration range

J = Indicates an estimated value

60-130%

60-130%

60-130%

- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



630-01-3

Hexacosane

Report of Analysis

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Client San Lab Samp Matrix: Method: Project:	ole ID: C24713 AQ - G SW846	round Wate 8015B M	er SW846 35100 D0 MacArthur		and, CA	Date	_	/08/12 /09/12 a
Run #1 Run #2	File ID HH028072.D	DF 10	Analyzed 11/14/12	By JH	Prep D 11/12/1		Prep Batch OP7024	Analytical Batch GHH858
Run #1 Run #2	Initial Volume 1000 mi	Final Vo 1.0 ml	lume					
TPH Extra	actable							
CAS No.	Compound		Result	RL	MDL	Units	Q	
	ТРН (С10-С24	8)	9.46	1.0	0.25	mg/l		
CAS No.	Surrogate Rec	overies	Run# 1	Run# 2	Lim	its		

45-140%

65%

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit E = Indicates value exceeds calibration range J = Indicates an estimated value

 $\mathbf{B} = \mathbf{Indicates}$ analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Page 1 of 1

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		Rep	ort of An	alysis			Page 1 of 1
Client San Lab Samp Matrix: Method: Project:	le ID: C24713-13 SO - Soil SW846 826		ır Blvd., Oakl	and, CA	Date Perc	• Sampled: • Received: • ent Solids:	11/08/12 11/09/12 n/a ^a
Run #1 Run #2	File ID D M36411.D 1	•	By XB	Prep D n/a	Date	Prep Batc n/a	h Analytical Batch VM1119
Run #1 Run #2	Initial Weight 5.22 g						
BTEX, Ox	ygenates			<u> </u>	<u>+</u>	**************************************	······································
CAS No.	Compound	Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7 106-93-4 107-06-2 108-20-3 637-92-3	Benzene Toluene Ethylbenzene Xylene (total) 1,2-Dibromoethane 1,2-Dichloroethane Di-Isopropyl ether Ethyl tert-Butyl Ethyl tert	e ND ND	4.8 4.8 9.6 4.8 4.8 4.8 4.8 4.8 4.8	0.48 0.48 0.48 0.96 0.48 0.48 0.48 0.48	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg] J	
1634-04-4 91-20-3 994-05-8 75-65-0 CAS No.	Methyl Tert Butyl Naphthalene Tert-Amyl Methyl Tert Butyl Alcohol Surrogate Recover	ND Ether ND I ND	4.8 4.8 4.8 38 Run# 2	0.96 0.96 0.48 9.6 Lim	ug/kg ug/kg ug/kg ug/kg its		
1868-53-7 2037-26-5	Dibromofluoromet Toluene-D8			60-1	.30% .30%		

(a) All results reported on a wet weight basis.

4-Bromofluorobenzene

95%

460-00-4

ND = Not detected **MDL** - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

60-130%

- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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			Repo	rt of An	alysis			Page 1 of 1
Client Sar Lab Samp Matrix: Method: Project:	ole ID: C247 SO - 5 SW84	13-13 Soil 16 8015B M	SW846 3545. 00 MacArthur		and, CA	Date Perc	Received: 1	1/08/12 1/09/12 'a ^a
Run #1 Run #2	File ID HH028024.D	DF 1	Analyzed 11/14/12	By JH	Prep D 11/13/		Prep Batch OP7027	Analytical Batch GHH857
Run #1 Run #2	Initial Weight 10.1 g	Final Vo 1.0 ml	lume				******	
TPH Extra	actable							
CAS No.	Compound		Result	RL	MDL	Units	Q	
	трн (С10-С	28)	3.01	9.9	2.5	mg/kg	l	
CAS No.	Surrogate Ro	ecoveries	Run# 1	Run# 2	Lim	its		
630-01-3	Hexacosane		60%		45-1	40%		

(a) All results reported on a wet weight basis.

ND = Not detected **MDL - Method Detection Limit** RL = Reporting Limit E = Indicates value exceeds calibration range

- $J \neq$ Indicates an estimated value
- B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Section 4



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

· Chain of Custody



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C24713: Chain of Custody Page 1 of 3



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C24713: Chain of Custody Page 2 of 3





Accutest Laboratories Sample Receipt Summary

Accutest Job Number:	24713		Client;	EQUOLOGIC		Project: MILLS COLLE	GE	
Date / Time Received: 1	1/9/2012	2		Delivery Method:	Client	Airbill #'s:		·····
Cooler Temps (Initial/AdJu	sted):	#1: (5.7/5	. <u>7); 0</u>	·		- <u></u>	4	·····
1. Custody Seals Present:		2 3	. COC Pre		1. Sample labels	<u>v Documentation</u> present on bottles;	Yor N M]
Cooler Temperature	Y	or N			2. Container label 3. Sample contain	ing complete: ter label / COC agree;		-
Temp criteria achieved: Cooler temp verification: Cooler media: No. Coolers:			·····		Sample Integrit 1, Sample recvd w 2. All containers a	ty - Condition vithin HT: occounted for:	<u>Yor</u> N ☑ □	ī
Quality Control Preservati	on Y	or N	N/A		Condition of sar	•	intact	·
1. Trip Blank present / cooler:					Sample Integrit		<u>Y or N</u>	<u>N/A</u>
2. Trip Blank listed on COC:					1. Analysis reque			
3. Samples preserved property	y: 🗹					d for unspecified tests		
4. VOCs headspace free:		-5			Sumicient volun 4. Compositing in 5. Filtering instruct			Z
Comments Sampling Time N B12-29' added to	OT listed the COC	on the CO for aniaysi	C. Is aş per Le	96 Dooley, 11/09/12>>				
Accutest Laboratorias V:408.588.0200		•#• • • ••••	··· · ·· <u>-</u> ···	2105	Lundy Avenue			San Jose, CA 95131

F: 408.588.0201

San Jose, CA 95131 www/accutest.com

C24713: Chain of Custody Page 3 of 3

Section 5



GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

1634-04-4

91-20-3

994-05-8

75-65-0

108-88-3

CAS No.

1868-53-7

2037-26-5

460-00-4

1330-20-7

Methyl Tert Butyl Ether

Tert-Amyl Methyl Ether

Tert Butyl Alcohol

Surrogate Recoveries

Dibromofluoromethane

4-Bromofluorobenzene

Naphthalene

Xylene (total)

Toluene-D8

Toluene

 $\mathbf{N}\mathbf{D}$

ND

ND

ND

ND

ND

94%

99%

94%

Job Numbe Account: Project:	Blank Summary er: C24713 EQUOCAMS EquoL Mills College - 5000		., Oaklar	nd, CA			Page 1 of 1
Sample VM1119-M	File ID DF B M36396.D 1	Analyzed 11/12/12	l B y XB	Pr n/a	ep Date a	Prep Batch n/a	Analytical Batch VM1119
The QC rep C24713-13	ported here applies to the	following samp	les:		-0-1	Method: SW84	6 8260B
CAS No.	Compound	Result	RL	MDL	Units	Q	
	Benzene	ND	5.0	0.50	ug/kg		
	1,2-Dibromoethane	ND	5.0	0.50	ug/kg		
	1,2-Dichloroethane	ND	5.0	0.50	ug/kg		
	Di-Isopropyl ether	ND	5.0	0.50	ug/kg		
	Ethylbenzene	ND	5.0	0.50	ug/kg		
	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg		
634-04-4	Methyl Tert Rutyl Ethor	ND	50	1.0	СлФ		

5.0

5.0

5.0

40

5.0

10

Limits

60-130%

60-130%

60-130%

1.0

1.0

0.50

0.50

1.0

10

ug/kg ug/kg

ug/kg

ug/kg

ug/kg

ug/kg



Method Blank Summary Job Number: C24713

Account: Project:	EQUOCAMS Mills College		ic acArthur Blvd.,	Oakland,	CA		
Sample VL661-MB	Fi le ID L20876.D	DF 1	Analyzed 11/13/12	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VL661

The QC reported here applies to the following samples:

Method: SW846 8260B

C24713-9, C24713-10

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
91-20-3	Naphthalene	ND	5,0	1.0	ug/kg
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ng/kg
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg
1 08-88- 3	Toluene	ND	5.0	0.50	ug/kg
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg
CAS No.	Surrogate Recoveries		Limit	8	
1868-53-7	Dibromofluoromethane	93%	60-13	0%	
2037-26-5	Toluene-D8	92%	60-13		
460-00-4	4-Bromofluorobenzene	97%	60-13		



Page 1 of 1

5.1.2 5

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1120-MB	M36432.D	1	11/13/12	ХВ	n/a	n/a	VM1120

C24713-1, C24713-2, C24713-3, C24713-4, C24713-5, C24713-6, C24713-7, C24713-8

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND	5.0	0.50	ug/kg
106-93-4	1,2-Dibromoethane	ND	5.0	0.50	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	ug/kg
108-20-3	Di-Isopropyl ether	ND	5.0	0.50	ug/kg
100-41-4	Ethylbenzene	ND	5.0	0.50	ug/kg
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	0.50	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
91-20-3	Naphthalene	ND	5.0	1.0	ug/kg
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/kg
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg
108-88-3	Toluene	ND	5.0	0.50	ug/kg
1330-20-7	Xylene (total)	ND	10	1.0	ug/kg
CAS No.	Surrogate Recoveries		Limit	8	
1868-53-7	Dibromofluoromethane	100%	60-13	0%	
2037-26-5	Taluene-D8	97%	60-13	0%	
460-00-4	4-Bromofluorobenzene	96%	60-13	0%	



Method Blank Summary Job Number: C24713

Account: Project:	EQUOCAMS Mills College		ic acArthur Blvd.,	Oakland,	CA		
Sample VQ458-MB	File ID Q11704.D	DF 1	Analyzed 11/14/12	By TN	Prep Date n/a	Prep Batch n/a	Analytical Batch VQ458

The QC reported here applies to the following samples:

Method: SW846 8260B

C24713-11, C24713-12

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND	1.0	0.20	ug/l
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l
100-41-4	Ethylbenzene	NĎ	1.0	0.20	ug/l
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l
91-20-3	Naphthalene	ND	5.0	0.50	ug/l
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/I
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l
108-88-3	Toluene	ND	1.0	0.20	ug/l
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l
CAS No.	Surrogate Recoveries		Limit	s	
1868-53-7	Dibromofluoromethane	98 %	60-13	0%	
2037-26-5	Toluene-D8	97%	60-13		
460-00-4	4-Bromofluorobenzene	92%	60-13		



Blank Spike/Blank Spike Duplicate Summary Job Number: C24713

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
VM1119-BS	M36393.D	1	11/12/12	XB	n/a	n/a	VM1119
VM1119-BSD	M36394.D	1	11/12/12	XB	n/a	n/a	VM1119

The QC reported here applies to the following samples:

Method: SW846 8260B

C24713-13

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	39.0	98	38.2	96	2	60-130/30
106-93-4	1,2-Dibromoethane	40	36.9	92	36.1	90	2	60-130/30
107-06-2	1,2-Dichloroethane	40	34.7	87	33.3	83	4	60-130/30
108-20-3	Di-Isopropyl ether	40	41.3	103	41.1	103	0	60-130/30
100-41-4	Ethylbenzene	40	36.2	91	35.7	89	1	60-130/30
637-92-3	Ethyl tert-Butyl Ether	40	39.3	98	38.3	96	3	60-130/30
1634-04-4	Methyl Tert Butyl Ether	40	39.8	100	38.9	97	2	60-130/30
91-20-3	Naphthalene	40	38.4	96	38,1	95	1	60-130/30
994-05-8	Tert-Amyl Methyl Ether	40	40.2	101	39.7	99	1	60-130/30
75-65-0	Tert Butyl Alcohol	200	195	98	199	100	2	60-130/30
108-88-3	Toluene	40	36.5	91	36,1	90	1	60-130/30
1330-20-7	Xylene (total)	120	109	91	108	90	1	60-130/30
CAS No.	Surrogate Recoveries	BSP	BSI	D	Limits			
1868-53-7	Dibromofluoromethane	97%	98%	6	60-130%	6		
2037-26-5	Toluene-D8	93%	93%	6	60-130%	6		
460-00-4	4-Bromofluorobenzene	96%	97%	6	60~1309	6		



Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL661-BS	L20873.D	1	11/13/12	XB	n/a	n/a	VL661
VL661-BSD	L20874.D	1	11/13/12	XB	n/a	n/a	VL661

The QC reported here applies to the following samples:

Method: SW846 8260B

C24713-9, C24713-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	37.8	95	40.1	100	6	60-130/30
106-93-4	1,2-Dibromoethane	40	37.5	94	38,2	96	2	60-130/30
107-06-2	1,2-Dichloroethane	40	39.8	100	42.4	106	6	60-130/30
108-20-3	Di-Isopropyl ether	40	35.4	89	35.7	89	ĩ	60-130/30
100-41-4	Ethylbenzene	40	39.4	99	39.1	98	1	60-130/30
637-92-3	Ethyl tert-Butyl Ether	40	37.2	93	37.4	94	1	60-130/30
1634-04-4	Methyl Tert Butyl Ether	40	38.0	95	38.6	97	2	60-130/30
91-20-3	Naphthalene	40	40.0	100	40.9	102	$\tilde{2}$	60-130/30
994-05-8	Tert-Amyl Methyl Ether	40	36.6	92	37.3	93	2	60-130/30
75-65-0	Tert Butyl Alcohol	200	180	90	197	99	9	60-130/30
108-88-3	Toluene	40	38.7	97	38.4	96	1	60-130/30
1330-20-7	Xylene (total)	120	121	101	118	98	3	60-130/30
CAS No.	Surrogate Recoveries	BSP	BSI)	Limits			
1868-53-7	Dibromofluoromethane	97%	98%	5	60-1309	6		
2037-26-5	Toluene-D8	91%	90%		60-1309	-		
460-00-4	4-Bromofluorobenzene	98%	95%		60-1309			



* = Outside of Control Limits.

						····	
Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1120-BS	M36429.D	1	11/13/12	XB	n/a	n/a	VM1120
VM1120-BSD	M36430.D	1	11/13/12	XB	n/a	n/a	VM1120

The QC reported here applies to the following samples:

Method: SW846 8260B

C24713-1, C24713-2, C24713-3, C24713-4, C24713-5, C24713-6, C24713-7, C24713-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	44.0	110	43.5	109	1	60-130/30
106-93-4	1,2-Dibromoethane	40	40.6	102	41.4	104	2	60-130/30
107-06-2	1,2-Dichloroethane	40	41.1	103	40.3	101	2	60-130/30
108-20-3	Di-Isopropyl ether	40	44.5	111	44.6	112	ō	60-130/30
100-41-4	Ethylbenzene	40	40.8	102	39.4	99	3 3	60-130/30
637-92-3	Ethyl tert-Butyl Ether	40	43.2	108	42.8	107	1	60-130/30
1634-04-4	Methyl Tert Butyl Ether	40	42.9	107	43.2	108	ĩ	60-130/30
91-20-3	Naphthalene	40	41.0	103	41.2	103	Ô	60~130/30
994-058	Tert-Amyl Methyl Ether	40	43.7	109	43.7	109	Õ	60-130/30
75-65-0	Tert Butyl Alcohol	200	235	118	237	119	1	60-130/30
108-88-3	Toluene	40	40.4	101	39.8	100	1	60-130/30
1330-20-7	Xylene (total)	120	123	103	120	100	2	60-130/30
CAS No.	Surrogate Recoveries	BSP	BSI)	Limits			
1868-53-7	Dibromofluoromethane	100%	102	0Z	60 1200	,		
2037-26-5	Toluene-D8	92%	93%		60-130%			
460-00-4	4-Bromofluorobenzene	99%	93% 97%		60-130%			
		0070	3170	j.	60-130%	0		



* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary Job Number: C24713

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VQ458-BS	Q11700.D	1	11/14/12	TŇ	n/a	n/a	VQ458
VQ458-BSD	Q11701.D	1	11/14/12	TN	n/a	n/a	VO458

The QC reported here applies to the following samples:

Method: SW846 8260B

Page 1 of 1

C24713-11, C24713-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/1	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	17.7	89	17.4	87	2	60-130/30
106-93-4	1,2-Dibromoethane	20	21.0	105	19.1	96	9	60-130/30
107-06-2	1,2-Dichloroethane	20	18.7	94	17.4	87	7	60-130/30
108-20-3	Di-Isopropyl ether	20	14.7	74	15.6	78	6	60-130/30
100-41-4	Ethylbenzene	20	17.8	89	17.5	88	2	60-130/30
637-92-3	Ethyl Tert Butyl Ether	20	17.5	88	18.3	92	4	60-130/30
1634-04-4	Methyl Tert Butyl Ether	20	18.2	91	19.1	96	5	60-130/30
91-20-3	Naphthalene	20	21.3	107	20.6	103	3	60-130/30
994-05-8	Tert-Amyl Methyl Ether	20	17.2	86	19.0	95	10	60-130/30
75-65-0	Tert-Butyl Alcohol	100	116	116	115	115	1	60-130/30
108-88-3	Toluene	20	17.4	87	16.9	85	3 .	60-130/30
1330-20-7	Xylene (total)	60	55.3	92	54.3	91	2	60~130/30
CAS No.	Surrogate Recoveries	BSP	BS	D	Limits			
1868-53-7	Dibromofluoromethane	99 %	103	%	60-1309	%		
2037-26-5	Toluene-D8	93%	939		60-1309			
460-00-4	4-Bromofluorobenzene	99%	879		60-1309			

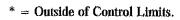


Laboratory Control Sample Summary

Job Numbe Account: Project:	er: C24713 EQUOCAMS EquoLog Mills College - 5000 N		lvd., Oak	land, C.	4		
Sample VM1119-L(File ID DF CS M36395.D 1	Analy 11/12/			Prep Date n/a	Prep Batch n/a	Analytical Batch VM1119
The QC rej C24713-13	ported here applies to the f	ollowing sa	mples:	<u>.</u> ,		Method: SW84	6 8260B
CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits		
CAS No.	Surrogate Recoveries	BSP	Lir	nits			
1868-53-7 2037-26-5	Dibromofluoromethane Toluene-D8	95% 98%		130% 130%			

60-130%

95%



460-00-4

4-Bromofluorobenzene



Laboratory Control Sample Summary Job Number: C24713

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1120-LCS	M36431.D	1	11/13/12	XB	n/a	n/a	VM1120
			llowing sample] , C24713-7, C247	Method: SW84	6 8260B

CAS No.	Compound	ug/kg	LCS ug/kg	LCS %	Limits
CAS No.	Surrogate Recoveries	BSP	Lin	nits	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	96% 97% 96%	60-	130% 130% 130%	



Page 1 of 1

Account: Project:	EQUOCAMS EquoLogic Mills College - 5000 MacArthur Blvd., Oakland, CA										
Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch				
C24726-1MS	M36402.D	1	11/12/12	ХВ	n/a	n/a	VM1119				
C24726-1MSD	M36403.D	1	11/12/12	XB	n/a	n/a	VM1119				
C24726-1	M36397.D	1	11/12/12	XB	n/a	n/a	VM1119				

The QC reported here applies to the following samples:

Method: SW846 8260B

Page 1 of 1

C24713-13

CAS No.	Compound	C24726-1 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	40	39.5	99	38.7	97	2	60-130/30
106-93-4	1,2-Dibromoethane	ND	40	40.8	102	40.8	102	0	60-130/30
107-06-2	1,2-Dichloroethane	ND	40	39.2	98	36.7	92	7	60-130/30
108-20-3	Di-Isopropyl ether	ND	40	39.4	99	39.2	98	1	60-130/30
100-41-4	Ethylbenzene	ND	40	35.8	90	35.3	89	1	60-130/30
637-92-3	Ethyl tert-Butyl Ether	ND	40	38.5	96	37.7	95	2	60-130/30
1634-04-4	Methyl Tert Butyl Ether	ND	40	40.0	100	39.1	98	2	60-130/30
91-20-3	Naphthalene	ND	40	39.4	99	37.7	95	4	60-130/30
994-05-8	Tert-Amyl Methyl Ether	ND	40	40.5	101	39.8	100	2	60-130/30
75-65-0	Tert Butyl Alcohol	ND	200	253	127	243	122	4	60-130/30
108-88-3	Toluene	ND	40	35.9	90	36.3	91	1	60-130/30
1330-20-7	Xylene (total)	ND	120	107	89	108	90	1	60-130/30
CAS No.	Surrogate Recoveries	MS	MSD	C24	4726-1	Limits			
1868-53-7	Dibromofluoromethane	100%	99%	100	%	60-1309	6		
2037-26-5	Toluene-D8	92%	93%	96%	6	60-1309			
460-00-4	4-Bromofluorobenzene	100%	98%	95%	6	60-1309			

Account: Project:	EQUOCAMS EquoLogic Mills College - 5000 MacArthur Blvd., Oakland, CA										
Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch				
C24713-1MS	M36448.D	1	11/13/12	ХB	n/a	n/a	VM1120				
C24713-1MSD	M36449.D	1	11/13/12	XB	n/a	n/a	VM1120				
C24713-1	M36433.D	1	11/13/12	XB	n/a	n/a	VM1120				

The QC reported here applies to the following samples:

Method: SW846 8260B

Page 1 of 1

C24713-1, C24713-2, C24713-3, C24713-4, C24713-5, C24713-6, C24713-7, C24713-8

CAS No.	Compound	C24713 ug/kg	i-1 Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		40	35.8	90	36.6	92	2	60-130/30
106-93-4	1,2-Dibromoethane	ND		40	35.1	88	34.2	86	3	60-130/30
107-06-2	1,2-Dichloroethane	ND		40	29.7	74	29.4	74	1	60-130/30
108-20-3	Di-Isopropyl ether	ND		40	34.7	87	34.3	86	1	60-130/30
100-41-4	Ethylbenzene	ND		40	31.8	80	32.1	81	1	60-130/30
637-92-3	Ethyl tert-Butyl Ether	ND		40	31.8	80	30.9	78	3	60-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		40	33.1	83	32.1	81	3	60-130/30
91-20-3	Naphthalene	ND		40	30.3	76	30.6	77	1	60-130/30
994-05-8	Tert-Amyl Methyl Ether	ND		40	33.9	85	33.0	83	3	60-130/30
75-65-0	Tert Butyl Alcohol	ND		200	220	110	206	103	7	60-130/30
108-88-3	Toluene	1.5	J	40	35.4	85	35.0	84	1	60-130/30
1330-20-7	Xylene (total)	1.0	J	120	99.1	82	99.1	82	0	60-130/30
CAS No.	Surrogate Recoveries	MS		MSD	C24	4713-1	Limits			
1868-53-7	Dibromofluoromethane	99%		98%	103	%	60-1309	6		
2037-26-5	Toluene-D8	91%		92%	98%	6	60-1309			
460-00-4	4-Bromofluorobenzene	97%		96%	97%		60-1309			



Account: Project:	EQUOCAMS EquoLogic Mills College - 5000 MacArthur Blvd., Oakland, CA								
Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch		
C24708-15MS	Q11718.D	10	11/14/12	TN	n/a	n/a	VQ458		
C24708-15MSD	Q11719.D	10	11/14/12	TN	n/a	n/a	VQ458		
C24708-15	Q11706.D	10	11/14/12	TN	n/a	n/a	VO458		

The QC reported here applies to the following samples:

Method: SW846 8260B

C24713-11, C24713-12

CAS No.	Compound	C24708-15 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	200	196	<u>9</u> 8	209	105	6	60-130/25
106-93-4	1,2-Dibromoethane	NÐ	200	213	107	224	112	5	60-130/25
107-06-2	1,2-Dichloroethane	ND	200	201	101	210	105	4	60-130/25
108-20-3	Di-Isopropyl ether	ND	200	162	81	177	89	9	60-130/25
100-41-4	Ethylbenzene	NÐ	200	192	96	208	104	8	60-130/25
637-92-3	Ethyl Tert Butyl Ether	ND	200	1 89	95	204	102	8	60-130/25
1634-04-4	Methyl Tert Butyl Ether	553	200	683	65	743	95	8	60-130/25
91-20-3	Naphthalene	ND	200	208	104	217	109	4	60-130/25
994-05-8	Tert-Amyl Methyl Ether	NĎ	200	197	99	212	106	7	60-130/25
75-65-0	Tert-Butyl Alcohol	56.0	1000	1110	105	1120	106	1	60-130/25
108-88-3	Toluene	ND	200	190	95	208	104	9	60-130/25
1330-20-7	Xylene (total)	ND	600	565	94	615	103	8	60-130/25
CAS No.	Surrogate Recoveries	MS	MSD	C2/	4708-15	Limits			
1868-53-7	Dibromofluoromethane	104%	103%	107	%	60-130%	, ,		
2037-26-5	Toluene-D8	93%	94%	949		60-130%			
460-00-4	4-Bromofluorobenzene	99%	99%	87 9		60-130%			

Account: Project:	EQUOCAMS EquoLogic Mills College - 5000 MacArthur Blvd., Oakland, CA									
Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch			
C24713-9MS	L20918.D	1	11/14/12	XB	n/a	n/a	VL661			
C24713-9MSD	L20919.D	1	11/14/12	XB	n/a	n/a	VL661			
C24713-9	L20879.D	1	11/13/12	XŚ	n/a	n/a	VL661			

The QC reported here applies to the following samples:

Method: SW846 8260B

Page 1 of 1

C24713-9, C24713-10

CAS No.	Compound	C24713-9 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	39.2	33.2	85	33.3	83	0	60-130/30
106-93-4	1,2-Dibromoethane	ND	39.2	34.5	88	34.8	87	1	60-130/30
107-06-2	1,2-Dichloroethane	ND	39.2	37.7	96	38.0	95	1	60-130/30
108-20-3	Di-Isopropyl ether	ND	39.2	31.0	79	32.3	81	4	60-130/30
100-41-4	Ethylbenzene	ND	39.2	31.5	80	31.5	79	Ô	60-130/30
637-92-3	Ethyl tert-Butyl Ether	ND	39.2	34.3	87	35.4	89	3	60-130/30
1634-04-4	Methyl Tert Butyl Ether	ND	39.2	35.7	91	37.4	94	5	60-130/30
91-20-3	Naphthalene	ND	39.2	37.1	95	34.9	87	6	60-130/30
994-05-8	Tert-Amyl Methyl Ether	ND	39.2	34.8	89	36.0	90	3	60-130/30
75-65-0	Tert Butyl Alcohol	ND	196	206	105	224	112	8	60-130/30
1 08-88 -3	Toluene	ND	39.2	32.3	82	32.5	81	1	60-130/30
1330-20-7	Xylene (total)	ND	118	96.4	82	96.9	81	1	60-130/30
CAS No.	Surrogate Recoveries	MS	MSD	C24	713 -9	Limits			
1868-53-7	Dibromofluoromethane	95%	99%	98%	, D	60-130%	6		
2037-26-5	Toluene-D8	87%	89%	91%		60-130%			
460-00-4	4-Bromofluorobenzene	96%	95%	97%		60-130%			



Section 6



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Job Number	Blank Summary C24713						Page 1 of 1
Account: Project:	EQUOCAMS EquoLo Mills College - 5000 N		. Oaklar	nd. CA			
Sample OP7020-MB	File ID DF	Analyzed 11/12/12		Pre	op Date 12/12	Prep Batch OP7020	Analytical Batch GHH856
The QC rep	orted here applies to the f	following sampl	es:			Method: SW846	3 8015B M
C24713-1, C	24713-2, C24713-3, C247	13-4, C24713-5					
CAS No.	Compound	Result	RL	MDL	Units (Q	
	ГРН (С10-С28)	ND	10	2.5	mg/kg		

CAS No.	Surrogate Recoveries		Limits
630-01-3	Hexacosane	74%	45-140%



Job Numb Account: Project:	er: C24713 EQUOCAMS EquoLog Mills College - 5000 M		, Oaklan	id, CA			-6
Sample OP7024-M	File ID DF B HH027983.D1	Analyzed 11/13/12	By JH		p Date 12/12	Prep Batch OP7024	Analytical Batch GHH857
	ported here applies to the fi , C24713-12	ollowing sampl	es:			Method: SW84	6 8015B M
CAS No.	Compound TPH (C10-C28)	Result ND	RL 0.10	MDL 0.025	Units mg/l	Q	
CAS No.	Surrogate Recoveries		Limits	8			
630-01-3	Hexacosane	81%	45-14()%			



	Blank Summary						Page 1 of 1
Job Number Account: Project:	: C24713 EQUOCAMS EquoLo Mills College - 5000 N	gic AacArthur Blvd.	, Oaktan	d, CA			
Sample OP7027-MB	File ID DF HH027989.D1	Analyzed 11/13/12	By JH		p Date 13/12	Prep Batch OP7027	Analytical Batch GHH857
	orted here applies to the f					Method: SW846	6 8015B M
U24713-0, U	24713-7, C24713-8, C247	13-9, C24713-10), C2471	3-13			
CAS No. (Compound	Result	RL	MDL	Units (2	
]	FPH (C10-C28)	ND	10	2.5	mg/kg		

CAS No.	Surrogate Recoveries		Limits
630-01-3	Hexacosane	79%	45-140%

.



Sample	File ID DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch	
OP7020-BS	HH027953.D1	11/12/12	LB	11/12/12	OP7020	GHH856	
OP7020-BSD	HH027954.D1	11/12/12	LB	11/12/12	OP7020	GHH856	
	ted here applies to the 713-2, C24713-3, C24]	Method: SW846 8015B M				

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	ТРН (С10-С28)	100	72.0	72	78.6	79	9	4 5-140/30
CAS No.	Surrogate Recoveries	BSP	BSI	>	Limits			
630 -01-3	Hexacosane	7 9%	86%	, D	45-140%	б		

* = Outside of Control Limits.



Job Number: C24713 Account: EQUOCAMS EquoLogic Project: Mills College - 5000 MacArthur Blvd., Oakland, CA										
Sample OP7024-BS OP7024-BSI	File ID DF HH027984.D1 D HH027985.D1	HH027984.D1 11/13/12 JH		Prep Date 11/12/12 11/12/12		Prep Bat OP7024 OP7024	ch Analytical Batch GHH857 GHH857			
The QC rep C24713-11,	oorted here applies to the f C24713-12	ollowing sa	mples:	99112- ₁₂ 0		Me	thod: SV	V846 8015B M		
CAS No.	Compound	Spike mg/1	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD		
	ТРН (С10-С28)	1	0.838	84	0.859	86	2	45-140/30		
CAS No.	Surrogate Recoveries	BSP	B	SD	Limits					
630-01-3	Hexacosane	92%	92	%	45-1409	%				

* = Outside of Control Limits.



Prep Batch	Analytical Batch
OP7027	GHH857
OP7027	GHH857

C24713-6, C24713-7, C24713-8, C24713-9, C24713-10, C24713-13

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	ТРН (С10-С28)	100	81.6	82	82.1	82	1	45-140/30
CAS No.	Surrogate Recoveries	BSP	BSI)	Limits			
630-01-3	Hexacosane	85%	85%	ó .	45-140%	6		

* = Outside of Control Limits.



Sample	File ID DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7020-MS	HH027977.D1	11/12/12	LB	11/12/12	OP7020	GHH856
OP7020-MSD	HH027978.D1	11/12/12		11/12/12	OP7020	GHH856
C24712-1	HH027956.D1	11/12/12	LB	11/12/12	OP7020	GHH856
The QC report	ed here applies to the fo	llowing sample	s:	·····	Method: SW846	6 8015B M
C24713-1. C24	713-2, C24713-3, C24713	₹ <i>A</i> €24712.5				

CAS No.	Compound	C24712-1 mg/kg Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD	
	ТРН (С10-С28)	10.4	99,1	83.9	74	79.0	69	6	45-140/30	
CAS No.	Surrogate Recoveries	MS	MSD	C24	4712-1	Limits				
630-01-3	Hexacosane	79%	76%	749	6	45-140%	6			

* = Outside of Control Limits.



Matrix Spike/Matrix Spike Duplicate Summary

Job Numb Account: Project:	ber: C24713 EQUOCAMS EquoLo Mills College - 5000 M		lvd.,	Oakland	, CA					0
Sample OP7024-M OP7024-M C24728-1		Analy: 11/15/ 11/15/ 11/13/	12 12	By JH JH JH	11/ 11/	p Date 12/12 12/12 12/12 12/12	Prep 1 OP702 OP702 OP702	24 24	Analyt GHH8 GHH8 GHH8	59
	eported here applies to the f	ollowing sau	nple	os:	<u> </u>	······································	Method:	SW846	8015B M	 M1
CAS No.	Compound	C24728 mg/1	-1 Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	ТРН (С10-С28)	0.0331	J	1.89	1.68	87	1.66	86	1	45-140/25
CAS No.	Surrogate Recoveries	MS		MSD	C2	4728-1	Limits			
630-01-3	Hexacosane	93%		94%	879	%	45-1409	6		



Page 1 of 1



ATTACHMENT E

n 1 N

Water Sampling Field Data Sheets

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WELL GAUGING DATA

Project # 121019-CKI Date 10/19/12 Client EQUOLOG	inc GROUP
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Site 5000 MACARTHUR BLUD, 0440 LAND

			<u> </u>			Thickness	1			Survey	**************************************
			Well		Depth to	of	Immiscibles	1		Point:	
	Well ID	Time	Size	Sheen /	Immiscible	Immiscible		Depth to water		TOB or	
	- wento	Time	(in.)	Odor	Liquid (tt.)	Liquid (ft.)	(ml)	(ft.)	., bottom (ft.)	<u>1</u> 09	Notes
	MW-1	09.46	2				and the second second second second	(9.40	32.82		
	MU. 2	09.15	2				- -	19.20	34.09		
	MW-3	0837	2-		e , ,	• 10° 140 - 1 - 11 - 11 - 11 - 11 - 11 - 11 - 1	******	(9,21	32.62		
									11111111111111111111111111111111111111		
/ 114	mw-lm	1040	2				- -	13.75	20.08		
	MW.2M	445	r		Territori de de presenta de la composición de			10.83	19.57		
	MW -3M	1105	2	· ·	****			13.06	17.10	V	
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WELLHEAD INSPECTION CHECKLIST

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Client <u> Z 6</u> .	JOLOGIC G	rpour	a Martin Martin (19, 18, 18, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19	**************************************	Date	lolia	1.2	
Site Address								
Job Number	•					Ck		
Well (D	Well Inspected - No Corrective Action Required	Water Balled From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
Mw-l	×	CURIST	r Bui		LOCE			• **** •** •** *** ***
nw-2	×	f.	CHRIST	1 Rox	Nº Locter			
mw-3	4	CHENST			LOCAL PUSTED		9999 300 Marca Marca Alina (Marca), 4 ang ang ang ang ang ang ang ang ang ang	2400-1200 - 20000 - 2000 - 2000 - 2000 - 2000 - 2000 - 200
mw-lm	<u> </u>			RANCH DADALANDALAND AND AND AND AND AND AND AND AND AND	LVCF RUSTED			
MW-2-M					gent d'a criss	×		
nr-3M	and the second second second second second second second second second second second second second second second		**	Madalan yang mengenakan me				·····
		÷	3175-3174/servemeenayaaanaa	NUM 1		<u> </u>	Y THE CONTRACT A MANAGEMENT OF LEVEL 1	
enteren antik kana menantikan - Bakara yan Baron menantikara digera ana berkana kana ka			*****					
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ντΥν — πο του στατατατα θηλαλαβορια (Δου ζουλουματομού το χωρογια το ποριου το πολογια				•		M Miller and State State State		
NOTES: "M	<u>w-3m No</u>	CAS .	C AN NG	- Rent	r 10.4.1	In Artemal	where we don't	
-MW-2M. 3								
	versio e		20496	*************************************		and the second second second second second second second second second second second second second second second		
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BLAINE TECH SERVICES, IN	ic. san	JOSE SACI	RAMENTO	LOS ANGELES	SAN DIEGO	SEATTLE		ublainetachicom

VALL MONITORING DATA SHAT

Project #:	121019	<u>- 6441</u>		Client: EQUOLOGIC GROUP				
Sampler:	C. Ku	MAT RI		Date: 10/19/12				
Well I.D.:	Mw-1			Well Diame	ter: 2 3 4	6 8		
Total Well	Depth (TE): ?	32-82	Depth to Wa	uter (DTW): 10	1.40		
Depth to Fr	ee Product	h		Thickness of	Free Product (fe	et):		
Referenced	to:	evc)	Grade	D.O. Meter ((if req'd):	YSI HACH		
DTW with	80% Rech	arge [(H	leight of Water	Column x 0.2	20) + DTW]:	22.08		
Purge Method: Disposable Bailer Waterra Sampling Method: Bailer Disposable Bailer Peristaltic Disposable Bailer Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Electric Submersible Other Dedicated Tubing								
	t i i i i i i i i i i i i i i i i i i i	3		Well Dian 1"	0.04 4"	Diameter Multiplier 0.65		
1 Case Volume	Gals.) X Speci	.> fied Volun	$\frac{-6.3}{\text{Calculated Vo}}$	_Gals. 2" Jume 3"	0.16 6* 0.37 Othe	1.47 r radius ² * 0.163		
Time 1	Temp (°F or ? C) 1 <i>8.</i> 7	рН 6.67	Cond. (mS or μS) 710	Turbidity (NTUs) 574	Gals. Removed	Observations		
0954	13.6	6.69	104	360	4.2-	······································		
1957	(8.5	6.70	-715	518	6.3			
¥- Did well dev			-6, втех, р. Ng	-	s, εσε, εθe	6.3		
Sampling Da	-		Sampling Time		Depth to Wate			
Sample I.D.:				Laboratory:	Kiff CalScience			
Analyzed for	r: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	etter see	Coc		
EB I.D. (if a	EB I.D. (if applicable): [@] Duplicate I.D. (if applicable):							
Analyzed for	Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:							
D.O. (if req'a	1): Pro	e-purge:		^{mg} /L	Post-purge:	^{mg} /L		
O.R.P. (if red	q'd): Pro	⊳purge:	n de la constant de la constant de la constant de la constant de la constant de la constant de la constant de l	mV	Post-purge:	mV		

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VAL MONITORING DATA SHAT

Project #:	121019	•	Client	: Eau	POLOGIC	G	Rowp		
Sampler:	C. Ku	CK_	Date: 10/19/12					7	
Well I.D.:	Mw-2			Well]	Diameter	:: ② 3	4	6 8	
Total Well	Depth (TE); Zı	1.09	Depth	to Wate	r (DTW):	19	.28	
Depth to Fr	ee Product			Thick	ness of F	ree Produ	ct (fe	et):	1
Referenced	to:	RVC)) Grade	D.O. 1	Meter (if	req'd):		YSI HACH	-
DTW with	80% Rech	arge [(F	leight of Water	Colum	n x 0.20)) + DTW]:	er.	2.24]
Purge Method: Baile Waterra Sampling Method: Bailer Disposable Bailer Peristaltic Disposable Bailer Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Electric Submersible Other Other;									
·····					Well Diamete	<u>r Multiplier</u> 0.04	Well] 4"	Diameter Multiplier 0.65	
2.4 ((1 Case Volume	Gals.) X Speci	3 fied Volum	$= \frac{7.2}{\text{Calculated Vc}}$	_ Gals.	2 ⁿ 3 ^u	.0.16 0.37	6" Other	1.47	
Time	Temp (°F or 🏷	pН	Cond. (mS or as)	1	bidity TUs)	Gals. Rem	loved	Observations	
0922	19.8	<u>6.68</u>	-761		00	2.4			
6925	19.6	6.90	-739	6	E 4	Ч, В			
6928	19.5	6.91	non for the south	~ 1	000	7.2		<u>Nor @ 2011.</u>	
⊀ Did well dev	3 HCL VØ vater?		. <u>с. в</u> тер, л. Ng			د مربق v evacuate			
Sampling Da	ate: 10/19	1,2	Sampling Time	e: 09.	40	Depth to V	Water	: 2.2.15 (SHOPTON	4.07
Sample I.D.:	Aw.	Z.	, ,	Labora			cience		
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	ether? s	EE	Coc	
EB I.D. (if a	pplicable):	, ,	@ Time	Duplic	ate I.D. (if applicab	and a straight of the form	9-449-449	
Analyzed for	r: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other:	(julia-da) (jakin jeng pilon pe		
D.O. (if req'o	i): Pro	e-purge:	an an an an an an an an an an an an an a	^{mg} /L	Po	ost-purge:	Ī	^{mg} /L	
O.R.P. (if red	q'd): Pro	-purge:		mV	Po	>st-purge:		mV	

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VILL MONITORING DATA SHOT

Project #:	121019	CK1	an an an an an an an an an an an an an a	Client:	Eau	vologic G	ROUP	
Sampler:	C. KIL	TATRI	CK.	Date: 10/19/12				
Well I.D.:	MW-3	*****		Well D	Jiameter	: 2 3 4	68	
Total Well	Depth (TD): 3	2.42	Depth	to Wate	r (DTW): (9.21	
Depth to Fr	ee Product	•		Thickn	ess of F	ree Product (fe	et):	
Referenced	to:	EVC) Grade	D.O. M	leter (if	req'd):	YSI HACH	
DTW with	80% Rech	arge [(F	leight of Water	Column	1 x 0.20)) + DTW]: 7	11.89	
Purge Method:	Kaile Disposable B Positive Air I Electric Subr	Displacem		Waterra Peristaltic tion Pump		Sampling Method	Dedicated Tubing	
2. (1 Case Volume	Gals.) X Speci	3 fied Volur	nes Calculated Vo	_Gals.	Well Diamete 1" 2" 3"	er Multiplier Well 0.04 4" 0.16 6" 0.37 Othe	Diameter Multiplier 0.65 1.47 r radius ² * 0.163	
Time 0946	Temp (°F or 🕜	pH 6-18	Cond. (mS or US) 560	1	oidity Us)	Gals. Removed	Observations	
obua	(9.0	6.25	531	ЧВ		И, ч		
0852-	18.9	6.28	517	34		6. 3		
¥ Did well dev	3 Her von water?		<u>1-6, втех, м</u> . Пр			EDC, EDB / N y evacuated:	APTHALENE 6.3	
Sampling Da	ate: 10/19	112-	Sampling Time	:: 0901	2	Depth to Wate	r. 21.75	
Sample I.D.:	: MW-	3		Laborat	ory:	Kiff CalScience	Other ACCUTEST	
Analyzed for	r: TPH-G	BTEX		Oxygena	tes (5)	etter see	Coc	
	EB I.D. (if applicable): [@] Duplicate I.D. (if applicable):							
Analyzed for		BTEX	MTBE TPH-D	Oxygenat	tes (5)	Other:	a faraf yan baran ya kata da ana a sa	
D.O. (if req'o		-purge:	a bayan an an inn at tai bai an an an an in i an a	^{mg} /L	Po	>st-purge:	^{mg} /L	
O.R.P. (if red	q'd): Pro	-purge:	Nenne die die Laak keeling die plachte kan in die speciese van der gewenning geveraalige op gewone.	mV	Po	ost-purge:	mV	

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VALL MONITORING DATA SHAT

Project #:	121019	- CK1	n 2014 kul kul ka ku ang mang kang kang kang kang kang kang kang k	Client:	Eau	POLOGIC	GR	0.30
					Date: 10/19/12			
Well I.D.:	Aw - (1					r: ② 3	4	68
Total Well]	Depth (TD): 7	0.08	Depth	to Wate	r (DTW):	(Ĵ:	75
Depth to Fr	ee Product		n therefore a set of the	Thickr	less of F	Free Produ	********	، « الله المركبة الم
Referenced	to:	KVC)	Grade	D.O. N	1eter (if	`req'd):	Ş	(SI HACH
DTW with a	80% Rech	arge [(H	leight of Water	Colum	1 x 0.20) + DTW]:	: 15	. 0 2-
Purge Method: (Bailer Disposable B Positive Air I Electric Subn	Displaceme		Waterra Peristaltic tion Pump		Sampling M	Other:	Bailer Qisposable Bailer Extraction Port Dedicated Tubing
1.0 ((Gals.) X	3	- 7.0	Gals.	Well Diamet 1" 2"	er Multiplier 0.04 0.16	<u>Well Dia</u> 4" 6"	meter <u>Multiplier</u> 0.65 1.47
1 Case Volume	Speci	fied Volum	مريدي ويسترجد الذا الشطاط ليشتب والمنظ الجزاري		3"	0.37	Other	radius ² * 0.163
Time	Temp (°F or ©	pH	Cond. (mS or (LS)	1	oidity (Us)	Gals. Ren	noved	Observations
1046	17.5	6.60	1607	74	18	1.0		
1048	7.3	6.78	1670	33	38	2.0		
1050	17.3	6.17	1674	34	0	3.0		
			- to an and the second s					
*	3 HEL VO	as a	2 IL AMBER	MP			4 1921 (1-1	·. ·
Did well dev	water?	Yes (R)	Gallons	actuall	y evacuate	: 🧃	
Sampling Da	ate: 10/19	112-	Sampling Time	: 1055	94.000	Depth to ?	Water:	14.10
Sample I.D.:	Mv-	IM		Laborat	ory:	Kiff CalS	cience	OTHER ACCUTEST
Analyzed for	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	tes (5)	ether? s	EE	Coc.
EB I.D. (if aj	pplicable):		@ Time	Duplica	te I.D. ((if applicat	ole):	
Analyzed for	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	tes (5)	Other:		
D.O. (if req'a	i): Pro	e-purge:		^{mg} /L	P	ost-purge:		mg/L
O.R.P. (if red	q'd): Pro	>-purge:		mV	P	ost-purge:		mV

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VILL MONITORING DATA SH

Project #:	121019	- 94		Client: EQU	ocostic G	Rowl		
Sampler:	C. Ku	PATRI	CX-	Date: 10/19/12				
Well I.D.:	AV-1	LM		Well Diameter	: 2 3 4	68		
Total Well	Depth (TE)): [(9.57	Depth to Wate	r (DTW): 10-	83		
Depth to Fr	ee Product	•		Thickness of F	ree Product (fe	et):		
Referenced	to:	erc)) Grade	D.O. Meter (if	req'd):	YSI HACH		
DTW with	80% Rech	arge [(F	leight of Water	Column x 0.20))+DTW]: 1	2.58		
Purge Method: Bailer Waterra Sampling Method: Bailer Disposable Bailer Peristaltic Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Electric Submersible Other Dedicated Tubing Other:								
1. 4 ((1 Case Volume	Gals.) X Speci	3 fied Volum	$\frac{-4.2}{\text{nes}}$	Gals. 3"	0.04 4" 0.16 6" 0.37 Othe	0.65 1.47 r radius ² * 0.163		
Time	Temp (°F or 🕐	pH	Cond. (mS or (S)	Turbidity (NTUs)	Gals. Removed	Observations		
1153	17.7	6.97	1701	374	(.4			
1155	17.6	6.95	1563	573	2.8			
11.57	17-6	6.94	1528	<u> <u> </u></u>	4.2			
Tid well dev	3 uce ve vater?		21L NP AN	n&ees Gallons actually	v evacuated: «			
Sampling Da			Sampling Time		Depth to Wate	***************************************		
Sample I.D.:	· nw-	-2-M		***	Kiff CalScience			
Analyzed for	r: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	etter see	COC		
EB I.D. (if a	EB I.D. (if applicable): [@] Time Duplicate I.D. (if applicable):							
Analyzed for	r: TPH-G	BTEX	۳۰۰۰،۲۰۱۰ (۱۹۷۹) - ۲۰۱۹ (۱۹۹۹) - ۲۰۱۹ (۱۹۹۹) - ۲۰۱۹ (۱۹۹۹) - ۲۰۱۹ (۱۹۹۹) - ۲۰۱۹ (۱۹۹۹) - ۲۰۱۹ (۱۹۹۹)	Oxygenates (5)	Other:			
D.O. (if req'o	1): Pr	e-purge:		^{mg} /L Po	ost-purge:	mg/L		
O.R.P. (if red	q'd): Pr	e-purge:		mV Po	ost-purge:	mV		

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VALL MONITORING DATA SHAT

Project #:	121019			Client: EQU	DEDGATE G	ROUP					
Sampler:	C. Ku	MATRI	<u>enc</u>	Date: 10/19/12							
Well I.D.:	MV-	3 m		Well Diameter	r: ② 3 4	6 8					
Total Well	Depth (TE): <u>\</u> -	1.10	Depth to Wate	r (DTW): 🐧	3.07					
Depth to Fr	ee Product			Thickness of F	Free Product (fe	eet):					
Referenced	to:	<u>k</u> vc)	Grade	D.O. Meter (if	'req'd):	YSI HACH					
DTW with	DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: \3.88										
Purge Method: Bailer Waterra Sampling Method: Bailer Disposable Bailer CASING METHOD Disposable Bailer Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Electric Submersible Other Dedicated Tubing Well Diameter Multiplier Well Diameter											
0.6 (0 1 Case Volume	Gals.) X Speci	3 fied Volun	= 1. B nes Calculated Vo	1" 2" 3"	0.16 4 ⁿ 0.16 6 ⁿ 0.37 Othe	0.65 1.47					
Time	Temp (°F or 🏠	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations					
112	17.4	10-120	2099	121	0.6						
1(14	17.4	6.74	2422-	12-1	(.2						
<u>titlo</u>	17.4	6.11	2409	58	1.8						
1119	17.4	6-11	2393	64	2.4	· / .					
*	2 wer vo	43	2 IL NT AM	3eks							
Did well dev	water?	Yes (No)	Gallons actuall	y evacuated: 2	M Charles					
Sampling Da	ate: 19/19	Ire.	Sampling Time	: 1125	Depth to Wate	r: 14.13.54					
Sample I.D.:	An w -	3 M	1 ·	Laboratory:	Kiff CalScience	other A CLUTEST					
Analyzed for	r: ŤPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	enter see	e coc					
EB I.D. (if a	B I.D. (if applicable): @ Duplicate I.D. (if applicable):										
Analyzed for	Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:										
D.O. (if req'a	1): Pro	e-purge:	·	^{mg} /L Pe	ost-purge:	mg/L					
O.R.P. (if red	q'd): Pro	-purge:		mV Pe	ost-purge:	mV					

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