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# UNDERGROUND STORAGE TANK REMOVAL AND SOIL SAMPLING REPORT

Former Chevron Service Station 9-0121 3026 Lakeshore Avenue Oakland, California

Prepared for: Mr. Kieth L. Matthews Hazardous Material Inspector II City of Oakland - Fire Prevention Bureau 250 Frank H. Ogawa Plaza, Suite 3341 Oakland, CA 94612

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# UNDERGROUND STORAGE TANK REMOVAL AND SOIL SAMPLING REPORT

Former Chevron Service Station 9-0121 3026 Lakeshore Avenue Oakland, California

ant

**David Grunat** 



nathan Lee

Nathan Lee, PG 8486

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## 1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) is submitting this Underground Storage on behalf of Tank Removal and Soil Sampling Report Chevron Products Company (Chevron) for the former Chevron Service Station located at 3026 Lakeshore Avenue in Oakland, California (Figure 1). On August 10, 2010, CRA observed the removal of four 10,000-gallon single-walled fiberglass gasoline underground storage tanks (USTs) and associated piping. CRA collected compliance soil and groundwater samples under the direction of the Oakland Fire Prevention Bureau (OFPB). Site background information, a description of sampling activities, and analytical results are discussed below.

## 1.1 <u>SITE DESCRIPTION</u>

A retail service station was operated on the site by Chevron from 1933 to 2009. The site is located on the southern corner of the intersection of Lakeshore Avenue and MacArthur Boulevard in Oakland, California (Figure 1). Surrounding property use includes residential, commercial, and recreational. The site is currently a vacant lot awaiting development.

The site has been an open environmental case since 1990 under Alameda County Environmental Health (ACEH) jurisdiction with RO number 0284 and Geotracker Global ID T0600100328. To date, 12 monitoring wells have been installed (four of which have been destroyed) and 9 soil borings advanced. A summary of previous investigation and remediation is included as Appendix A.

## 1.2 SITE GEOLOGY AND HYDROGEOLOGY

## Site Geology

The site is situated at the western edge of the Piedmont Hills and is approximately 7 feet above mean sea level (ft-amsl) with relatively flat topography. Sediments in the vicinity consist of Holocene age estuarine deposits comprised of organic clay and silty clay (Bay Mud); overlying Holocene age alluvial sand and silt; and Pleistocene age interbedded clay, silt, sand, and gravel.<sup>1</sup> Sediments encountered at the site consist of clays interbedded with silt, silty sand, fine sand and gravel layers to the total depth explored of 35 feet below grade (fbg).

<sup>&</sup>lt;sup>1</sup> *California's Groundwater Bulletin 118;* The State of California Department of Water Resources Agency February 27, 2004.

## Hydrogeology

The site is located in the Santa Clara Valley Groundwater Basin, East Bay Plain Sub Basin. Groundwater in this region has been designated for potential beneficial agricultural, municipal, and industrial uses.<sup>2</sup> The average historical groundwater elevation has ranged from approximately 2 to 14 fbg and flows predominantly to the southwest. The nearest surface water body is Lake Merritt, approximately 900 feet to the southwest.

## 2.0 UNDERGROUND STORAGE TANK REMOVAL AND COMPLIANCE SAMPLING

On August 10, 2010, CRA observed and documented the removal of the USTs and associated piping. A total of 20 soil samples from beneath the USTs and piping and 3 composite stockpile samples were collected. A site plan illustrating the soil sampling locations are presented on Figure 2.

## Personnel

Musco Excavators, Inc. of Santa Rosa, California completed fuel system preparation and removal activities. CRA personnel Jeff Schrupp and Cortland Toczylowski, under the supervision of California Professional Geologist Nathan Lee, PG 8486, observed the UST removal and performed compliance soil sampling. OFPB representative Kieth L. Matthews observed the UST removal and directed compliance soil sampling. Adams Services, Inc. and Hoyt Transportation transported the inert fuel system components, including the USTs and piping, for proper disposal.

## UST Removal

The USTs were rendered inert using 250 pounds of dry ice per UST and removed under OFPB permit P10-0119 (Appendix B). During shoring installation, tank T1 was compromised, creating a hole; however, the tanks were previously drained and cleaned. The damage was shown to the OFPB inspector prior to removal. No visual holes, cracks, or staining was noted on any of the tanks, with the exception of the shoring damage on tank T1.

<sup>&</sup>lt;sup>2</sup> Table 2-2 Existing and Potential Beneficial Uses in Groundwater in Identified Basins; Water Quality Control Plan (Basin Plan) for the San Francisco Bay Basin; California Regional Water Quality Control Board - San Francisco Bay Region, January 18, 2007.

## Compliance Sampling

CRA collected soil samples EX-1 through EX-6 from native soil beneath the USTs at 9.5 fbg and samples P-1 through P-14 from native soils beneath the product piping between 4 and 6 fbg. The samples were collected by driving stainless steel tubes into native soil in the excavator bucket. Three soil samples, labeled SS-1 through SS-3, were collected by driving stainless steel tubes into the stockpiles. All samples were capped with Teflon® sheets and plastic caps per OFPB regulations.

One groundwater sample was collected from within the UST pit and labeled GW-1. The groundwater sample was collected utilizing a disposable bailer, decanted into clean laboratory-approved containers, properly sealed, and labeled. All samples were logged on a chain-of-custody, preserved on ice, and delivered to McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California for analysis. CRA's *Standard Field Procedures for Compliance Sampling* is included as Appendix C.

## Chemical Analysis

All samples were analyzed for the following constituents:

- Total petroleum hydrocarbons as diesel (TPHd) and total petroleum hydrocarbons as gasoline (TPHg) by Environmental Protection Agency (EPA) method 8015B
- Benzene, toluene, ethylbenzene, xylenes (BETX), methyl tertiary butyl ether (MTBE) tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB) and ethanol by EPA Method 8260B
- CAM 17 metals by EPA method 6020 (Stockpile Only)

## Waste Disposal

All fuel system components (dispensers, piping, tanks and rinsate) were shipped under manifest to a Chevron-approved disposal facility. The USTs and piping was disposed of at Siemens Water Technologies Corporation in Los Angeles, California. Copies of the waste data forms, disposal manifests, certificates of destruction, tank closure certifications, and tank certification reports are included in Appendix D.

Soils and pea gravel removed from the UST pit and piping trenches were temporarily stockpiled onsite. After the USTs were removed the soils and pea gravel were placed back into the UST pit and piping trenches with OFPB approval.

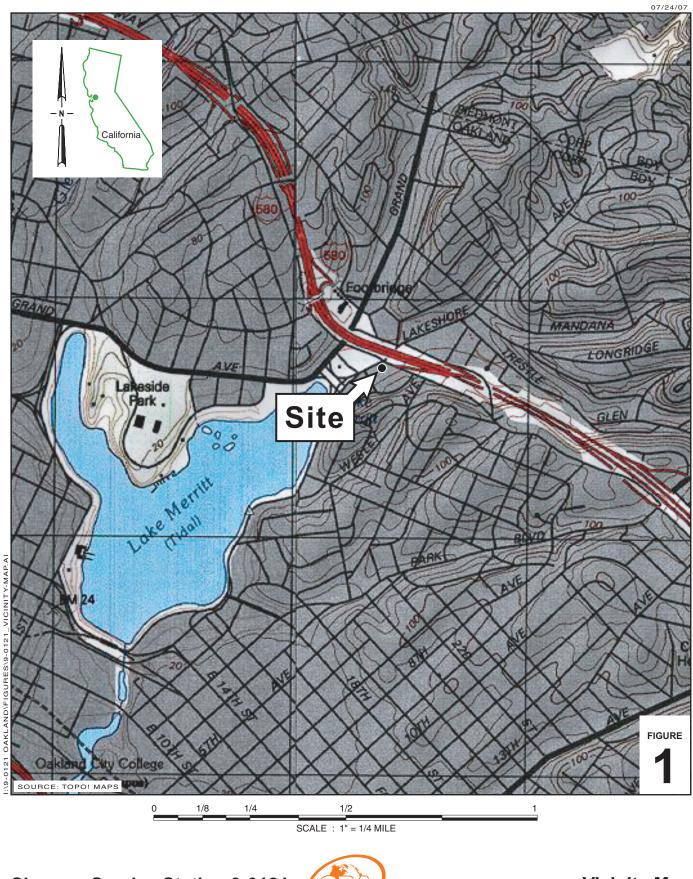
## 3.0 SOIL ANALYTICAL RESULTS

Hydrocarbon concentrations in soil detected during this investigation are consistent with previous investigations. The highest concentrations detected are 1,100 milligrams per kilogram (mg/kg) TPHd (P-12), 980 mg/kg TPHg (P-4), 1.4 mg/kg benzene (P-4) and 0.77 mg/kg MTBE (EX-3). Current and historic soil analytical results are presented in Table 1 and Table 2. The soil laboratory analytical reports are included in Appendix E.

## 4.0 <u>GROUNDWATER ANALYTICAL RESULTS</u>

Hydrocarbon concentrations in the grab-groundwater sample collected from within the UST pit are consistent with concentrations detected during groundwater monitoring events. The hydrocarbon concentrations detected were 2,500 micrograms per liter ( $\mu$ g/L) TPHd, 360  $\mu$ g/L TPHg, and 20  $\mu$ g/L MTBE. Current and historical grab-groundwater analytical results are presented in Table 3. The groundwater laboratory analytical report is included in Appendix E.

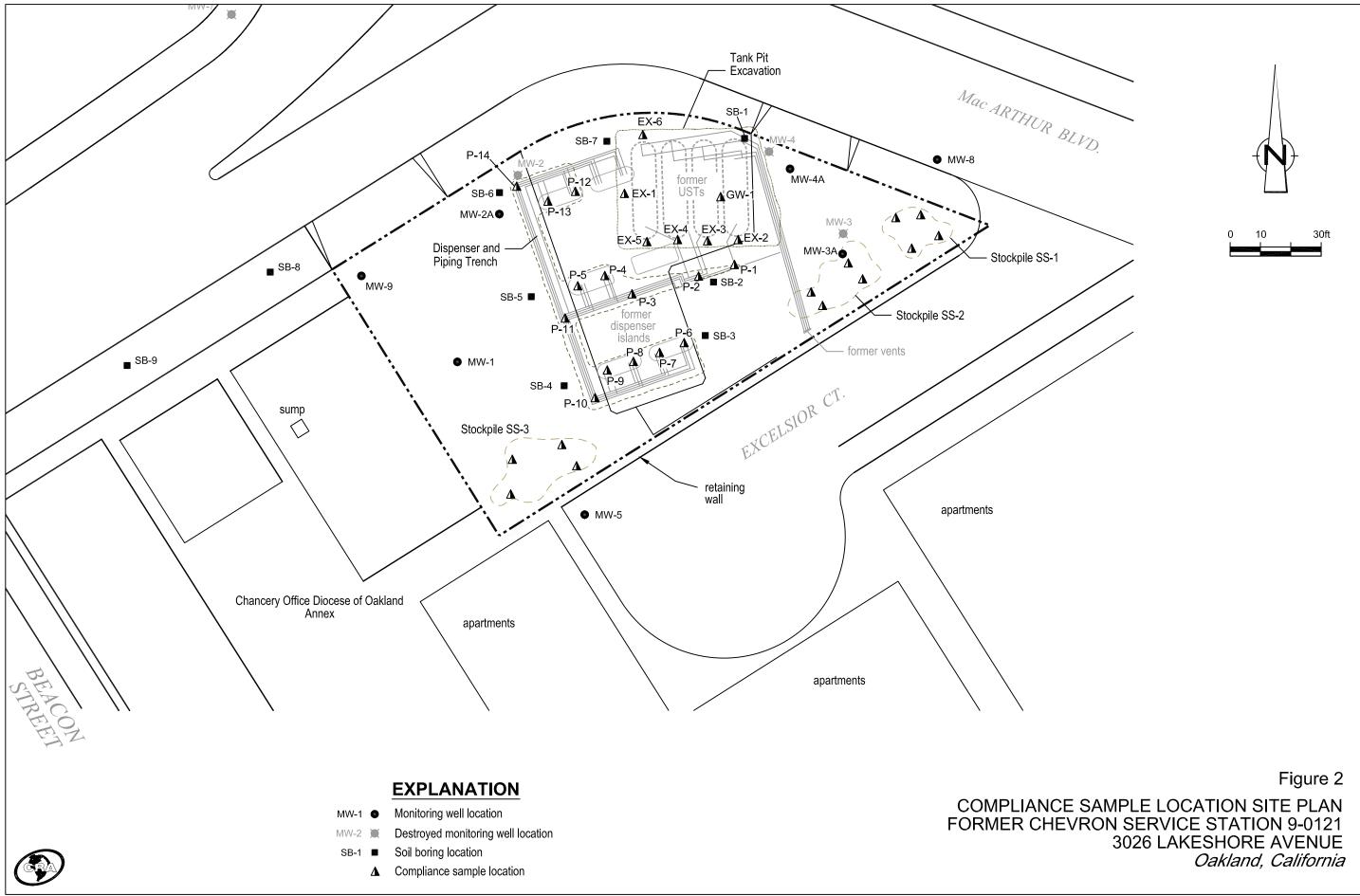
FIGURES



## **Chevron Service Station 9-0121**

3026 Lakeshore Avenue Oakland, California

nue CONESTOGA-ROVERS & ASSOCIATES Vicinity Map



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### SOIL ANALYTICAL RESULTS - HYDROCARBONS AND LEAD FORMER CHEVRON SERVICE STATION 9-0121 3026 LAKESHORE AVENUE OAKLAND,CALIFORNIA

		Sample	Total TPH	TPHmo (TOG)	TPHd	TPHg	Renzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	TAME	TBA	ETBE	1,2-DCA	EDB	Ethanol	Pb
Sample	ID Date	Depth (fbg)	( <i>mg/kg</i> )	(100) (mg/kg)	( <i>mg/kg</i> )	( <i>mg/kg</i> )	(mg/kg)	( <i>mg/kg</i> )	(mg/kg)	(mg/kg)	( <i>mg/kg</i> )	(mg/kg)	( <i>mg/kg</i> )	(mg/kg)	( <i>mg/kg</i> )	( <i>mg/kg</i> )	(mg/kg)	(mg/kg)	(mg/kg)
	- Shallow Soil	y 0.	NE	83	83	83	0.044	2.9	2.3	2.3	0.023	NE	NE	0.075	NE	0.0045	0.00033	NE	200
ESLs <sup>1</sup> -	- Deep Soil (Re	sidential)	NE	83	83	83	0.044	2.9	3.3	2.3	0.023	NE	NE	0.075	NE	0.0045	0.00033	NE	750
EX-1	08/10/	10 9.5			2.3	2.5	< 0.005	< 0.005	< 0.005	< 0.005	0.18	< 0.005	< 0.005	0.16	< 0.005	< 0.004	< 0.004	< 0.5	
EX-2	08/10/	10 9.5			7.0	7.9	< 0.005	< 0.005	< 0.005	< 0.005	0.041	< 0.005	< 0.005	< 0.05	< 0.005	< 0.004	< 0.004	< 0.5	
EX-3	08/10/	10 9.5			<1.0	1.1	< 0.020	< 0.020	< 0.020	< 0.020	0.77	< 0.020	< 0.020	0.35	< 0.020	< 0.016	< 0.016	<2.0	
EX-4	08/10/	10 9.5			27	20	< 0.010	< 0.010	< 0.010	< 0.010	0.22	< 0.010	< 0.010	0.23	< 0.010	< 0.0080	< 0.0080	<1.0	
EX-5	08/10/	10 9.5			<1.0	0.78	< 0.005	< 0.005	< 0.005	< 0.005	0.087	< 0.005	< 0.005	0.12	< 0.005	< 0.004	< 0.004	< 0.5	
EX-6	08/10/	10 9.5			18	1.6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005	< 0.004	< 0.004	< 0.5	
P-1	08/10/	10 6.5			6.0	5.7	0.041	0.22	0.040	0.20	0.074	< 0.010	< 0.010	<0.10	< 0.010	< 0.0080	< 0.0080	<1.0	
P-2	08/10/	10 5			12	7.2	< 0.005	< 0.005	0.039	0.16	0.17	< 0.005	< 0.005	0.17	< 0.005	< 0.004	< 0.004	< 0.5	
P-3	08/10/	10 5			11	9.4	< 0.020	< 0.020	< 0.020	0.035	0.46	< 0.020	< 0.020	0.24	< 0.020	< 0.016	< 0.016	<2.0	
P-4	08/10/	10 5			730	980	1.4	<1.0	16	2.6	<1.0	<1.0	<1.0	<10	<1.0	< 0.80	< 0.80	<100	
P-5	08/10/	10 5			30	1.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005	< 0.004	< 0.004	< 0.5	
P-6	08/10/	10 4			9.4	2.2	< 0.005	< 0.005	0.0054	< 0.005	0.0081	< 0.005	< 0.005	< 0.05	< 0.005	< 0.004	< 0.004	< 0.5	
P-7	08/10/	10 4			900	8.4	< 0.010	< 0.010	< 0.010	< 0.010	0.037	< 0.010	< 0.010	<0.10	< 0.010	< 0.0080	< 0.0080	<1.0	
P-8	08/10/	10 4			150	410	< 0.10	< 0.10	3.0	0.12	< 0.10	< 0.10	< 0.10	<1.0	< 0.10	< 0.080	< 0.080	<10	
P-9	08/10/	10 4			<1.0	0.89	< 0.005	< 0.005	< 0.005	< 0.005	0.0051	< 0.005	< 0.005	< 0.05	< 0.005	< 0.004	< 0.004	< 0.5	
P-10	08/10/	10 4			1.5	1.3	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005	< 0.004	< 0.004	< 0.5	
P-11	08/10/	10 4			290	390	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<5.0	< 0.50	< 0.40	< 0.40	<50	
P-12	08/10/	10 4			1,100	770	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	< 0.80	< 0.80	<100	
P-13	08/10/	10 4			610	780	0.70	< 0.50	5.9	0.66	< 0.50	< 0.50	< 0.50	<5.0	< 0.50	< 0.40	< 0.40	<50	
P-14	08/10/	10 4			420	620	1.0	< 0.50	9.4	0.84	< 0.50	< 0.50	< 0.50	<5.0	< 0.50	< 0.40	< 0.40	<50	
SS-1	08/10/	10			15	6.1	< 0.005	< 0.005	< 0.005	0.047									27
SS-2	08/10/	10			28	<1.0	< 0.005	< 0.005	< 0.005	< 0.005									6.0
SS-3	08/10/	10			29	8.3	< 0.005	0.023	< 0.005	0.014									23

#### SOIL ANALYTICAL RESULTS - HYDROCARBONS AND LEAD FORMER CHEVRON SERVICE STATION 9-0121 3026 LAKESHORE AVENUE OAKLAND,CALIFORNIA

		Sample	Total	ТРНто					Ethyl-	Total									
		, Depth	TPH	(TOG)	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes	MTBE	DIPE	TAME	TBA	ETBE	1,2 <b>-</b> DCA	EDB	Ethanol	Pb
Sample ID	Date	(fbg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)													
ESLs <sup>1</sup> - Shalle	ow Soil (Res	idential)	NE	83	83	83	0.044	2.9	2.3	2.3	0.023	NE	NE	0.075	NE	0.0045	0.00033	NE	200
ESLs <sup>1</sup> - Deep S	Soil (Resider	ntial)	NE	83	83	83	0.044	2.9	3.3	2.3	0.023	NE	NE	0.075	NE	0.0045	0.00033	NE	750

#### **Notes/Abbreviations:**

Total petroleum hydrocarbons by modified EPA Method 8015B unless otherwise noted.

Total petroleum hydrocarbons as motor oil (TPHmo) and total oil and grease (TOG) by modified EPA Method 8015B unless otherwise noted.

Total petroleum hydrocarbons as diesel (TPHd) and gasoline (TPHg) by modified EPA Method 8015B unless otherwise noted.

Benzene, toluene, ethybenzene, total xylenes, methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), t-amyl methyl ether (TAME), t-butyl alcohol (TBA), ethyl t-butyl ether (ETBE), 1,2dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB) and ethanol by EPA Method 8026B unless otherwise noted.

Lead (Pb) by EPA Method 6010 unless otherwise noted.

1 = Environmental Screening Levels (ESLs) for shallow (<3 meters below grade) and deep (>3 meters below grade) soil where groundwater is a current or potential driving water source from *Screening for Environemental Concerns at Sites with Contaminated Soil and Groundwater* prepared by the Califonia Regional Water Quality Control Board - San Francisco Bay Region Interim Final November 2007, revised May 2008.

NE = Not established

-- = Not analyzed/not applicable.

BOLD = Concentration exceeds applicable laboratory method detection limit.

#### SOIL ANALYTICAL RESULTS - METALS FORMER CHEVRON SERVICE STATION 9-0121 3026 LAKESHORE AVENUE OAKLAND,CALIFORNIA

Sample	Sample	Sample Depth	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
ID	Date	(fbg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
$ESLs^1$ -	Shallow Soil	(Residential)	6	0.39	750	4	2	1,000	40	225	200	1	40	150	10	20	1	16	600
$ESLs^{1}$ -	Deep Soil (Re	sidential)	310	15	2,500	98	39	2,500	94	2,500	750	58	2,500	258	2,500	2,500	62	774	2,500
SS-1	08/10/10		0.74	3.5	150	< 0.5	< 0.25	38	8.3	17	27	< 0.05	< 0.5	39	< 0.5	< 0.5	< 0.5	41	110
SS-2	08/10/10		< 0.5	2.7	78	< 0.5	< 0.25	42	7.2	17	6.0	< 0.05	< 0.5	41	<0.5	< 0.5	<0.5	22	67
SS-3	08/10/10		0.86	4.2	2,500	< 0.5	0.34	45	11	23	23	< 0.05	< 0.5	68	<0.5	< 0.5	<0.5	58	140

#### Notes/Abbreviations:

fbg = Feet below grade.

mg/kg= Milligram per kilogram.

Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc analyzed by EPA Method 6020. 1 = Environmental Screening Levels (ESLs) for shallow (<3 meters below grade) and deep (>3 meters below grade) soil where groundwater is a current or potential driving water source from Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater prepared by the Califonia Regional Water Quality Control Board - San Francisco Bay Region Interim Final November 2007, revised May 2008.

-- = Not analyzed/not applicable.

<x = Not detected above laboratory detection limit x.

**BOLD** = Above applicable ESLs.

#### GRAB-GROUNDWATER ANALYTICAL RESULTS FORMER CHEVRON SERVICE STATION 9-0121 3026LAKESHORE AVENUE OAKLAND, CALIFORNIA

								Ethyl-	Total									
Sample		Depth	ТРНто	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME	EDB	1,2 <b>-</b> DCA	Ethanol	Nitrates
ID	Date	(fbg)	$(\mu g/L)$	$(\mu g/L)$	$(\mu g/L)$	$(\mu g/L)$	(µg/L)	$(\mu g/L)$	(µg/L)	$(\mu g/L)$	$(\mu g/L)$	(µg/L)	$(\mu g/L)$	$(\mu g/L)$				
ESL - Res	sidential Lan	d Use	100	100	100	1	40	30	20	5	12	NE	NE	NE	0.05	0.5	NE	NE
GW-1	08/10/10			2,500	360	< 0.5	< 0.5	< 0.5	1.1	20	15	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<50	

#### Notes/Abbreviations:

Total petroluem hydrocarbons as diesel (TPHd) and gasoline (TPHg) by EPA Method 8015B modified.

Benzene, toluene, ethylbenzene and total xylenes by EPA Method 8260C.

Methyl tertiary butyl ether (MTBE) by EPA Method 8260C.

Ethanol by EPA Method 8260C.

fbg = feet below grade.

Micrograms per liter ( $\mu$ g/L).

Environmental Screening Level (ESL) for groundwater is not a current or potential drinking water source from *Screening for Environmental Concerns at Sites with Contaminated Soil* and *Groundwater* prepared by the California Regional Water Quality Control Board - San Francisco Bay Region, Interim Final November 2007, revised May 2008.

-- = Not analyzed/not applicable.

NE = Not established.

APPENDIX A

## PREVIOUS ENVIRONMENTAL INVESTIGATION AND REMEDIATION

## PREVIOUS ENVIRONMENTAL INVESTIGATION AND REMEDIATION

## 1967 Source Leak

In July 1967, a 2,000-gallon inventory loss was discovered. The steel underground storage tanks (USTs) were removed and replaced with new USTs double wrapped in asphalt. A 32-inch long gash was observed in one of the removed tanks. This information was reported in Pacific Environmental Group, Inc.'s (PEG) October 4, 1993 *Remedial Feasibility Study*.

## Between late 1970's to 1981 Monitoring Well Installation

Six monitoring wells were installed between late the late 1970's and 1981 and used as recovery wells to recover light non aqueous-phase liquids (LNAPL). Installation dates and well construction logs were unavailable. This information was reported in PEG's October 4, 1993 *Remedial Feasibility Study*.

## 1980 Tank Replacement

A tank tightness test indicated that one of the USTs may have had a leak and was subsequently replaced with a fiberglass UST. An undocumented quantity of soil was removed from the site during UST replacement. A plastic impermeable barrier extending to approximately 14 to 16 feet below grade (fbg) was installed along the southwestern property line. This information was reported in PEG's October 4, 1993 *Remedial Feasibility Study*.

## 1981 Monitoring Well Installation

Four additional 8-inch diameter monitoring wells were installed in July 1981. In August 1981, a pump test was performed to determine groundwater draw down and production rates. Additional information is available in Groundwater Technology, Inc.'s (GTI) *Considerations on Retrieval of Product from Groundwater*. The report is not dated.

## 1984 Station Rebuild and UST Abandonment

In 1984, the station was torn down and completely rebuilt. During renovation activities two USTs, approximately 500 to 1,000 gallons, were discovered beneath the sidewalk. The USTs were abandoned in place by filling them with grout. Approximately 740 cubic yards of soil was over-excavated and disposed of offsite. This information was reported in PEG's October 4, 1993 *Remedial Feasibility Study*.

## 1984 Basement Inspections

The building tenants at 3014 Lakeshore Avenue complained of petroleum odors in the building. No odor or sheen was noted in the basement. A letter was sent to the property owner by Chevron stating that monitoring of the basement during the two previous years (1982 and 1983) did not find any evidence of hydrocarbons. This information was reported in PEG's October 4, 1993 *Remedial Feasibility Study*.

## 1990 UST Repair

A hole created by repetitive stick tank volume gauging was discovered in the unleaded gasoline UST. The hole was repaired and the UST was put back in service. This information was reported in PEG's October 4, 1993 *Remedial Feasibility Study*.

## 1991 Monitoring Well Destruction

In March 1991 six monitoring wells were destroyed and in April 1991 two monitoring wells were destroyed Additional information is available in GTI's April 25, 1991 *Destruction of Five Groundwater Monitoring Wells and Three Groundwater Extraction Wells*.

## 1991 Monitoring Well Installation

On August 7 and 13, 1991, monitoring wells MW-1 through MW-4 were installed. Additional information is available in GTI's October 18, 1991 *Well Installation Report*.

## 1992 Monitoring Well Installation and Destruction

In June 1992, offsite monitoring wells MW-5 through MW-8 were installed and onsite well MW-1 was destroyed. Additional information is available in GTI's July 31, 1992 *Environmental Assessment Report.* 

## 1993 Feasibility Study

In October 1993, PEG completed a remedial feasibility study and recommended natural attenuation as the cleanup alternative. Additional information is available in PEG's October 4, 1993 *Remedial Feasibility Study*.

## 1996 Product Piping and Dispenser Replacement

In September 1996, the product piping and dispensers were replaced. Soil samples were collected from beneath the dispensers and product piping at depths ranging from 2 to 3 fbg. Approximately 100 cubic yard of soil was removed and disposed of offsite. Additional information is available in Touchstone Development's November 1, 1996 *Product Piping Removal and Soil Sampling Report*.

## 1996 Well Destruction

In October 1996 one well was destroyed. Additional information is available in RRM Engineering Contracting Firm's October 2, 1996 *Well 1S/3W25R80 Abandonment Document Letter*.

## 1999 Well Installation

In April 1999, onsite monitoring well MW-9 was installed, and <sup>3</sup>/<sub>4</sub>-inch diameter wells MW-2 through MW-4 were destroyed and replaced with 2-inch diameter wells MW-2A through MW-4A. Additional information is available in Gettler-Ryan's May 26, 1999 *Monitoring Well Destruction and Installation Report*.

## 2001 Site Conceptual Model

In October 2001, Delta Environmental Consultants, Inc. (Delta) completed a site conceptual model and recommended further offsite, downgradient delineation of dissolved hydrocarbons by installing additional monitoring wells to the southeast. Additional information is available in Delta's October 15, 2001 *Site Conceptual Model*.

## 2006 Offsite Borings

In August 2006, Cambria Environmental Technology, Inc. (Cambria) supervised the advancement of offsite borings SB-8 and SB-9 as part of the ongoing site assessment. Additional information is available in Cambria's October 20, 2006 *Additional Subsurface Investigation Report*.

## 2007 Offsite Sump Sampling

In May 2007, Conestoga-Rovers & Associates (CRA) collected a single grab-groundwater sample from the sump located downgradient in the Diocese of Oakland office building basement. Sump monitoring was added to the semi-annual groundwater monitoring and sampling schedule. Additional information is available in CRA's July 12, 2007 *Offsite Sampling Report*.

APPENDIX B

UST REMOVAL PERMIT

Date Submitted		PLAN F	REVI	EW LO	G		JOB # - P10-0	)119 File
Feb 5, 2010 Date Assigned	Job Site 3026 LAKESHORE AVE	Company Name Musco Excavators, Inc.		pe of Plans removals (4)		Disposition		Pick Up/Mailed Date
Feb 5, 2010 Resubmitted O Yes O No	Resubmitted Dates	Company Phone # 707-579-0250		Reviewer sp Matthews		Pick up pe	rson	Pick up person Phone #
O Ist O 3rd O 2nd O 4th	L)	Contact Person ALISON MUSCO	F	ees Paid Yes	ь.	Reviewed	Dates	Amount of Time
	4.)	Expedite/After Hours O Yes O No		s Paid Date eb 5, 2010	2.) 3.) 4.)			Review Complete Date
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# **MUSCO** EXCAVATORS, INC.

2526 GREENVALE COURT SANTA ROSA, CA 95401 (707) 579-0250 • FAX (707) 575-7389 CONTRACTOR LIC. #634117

February 1, 2010

City of Oakland Fire Department Fire Prevention Bureau 250 Frank H. Ogawa Plaza, Suite 3341 Oakland, CA 94612

Attention: Keith Mathews

Re: <u>PROJECT WORK PLAN</u> Chevron Facility #9-0121 3026 Lakeshore Avenue Oakland, California

Musco Excavators, Inc. (Musco) proposes to remove four 10,000-gallon SW glass underground tanks formerly consisting of regular (2), mid-grade and premium fuel from the Chevron facility located at 3026 Lakeshore Avenue in Oakland, California.

The following procedures will be implemented prior to and during the removal process.

The site will continue to be surrounded by six foot high temporary fencing, which will remain in place during the entire project and secured to prevent unnecessary entrance by the public. Prior to beginning the excavation USA will be contacted a minimum 48hours prior to mark utilities, notification will be made to OSHA for the excavation and Bay Area Air Quality Management District (BAAQMD) will be provided with their 5-working day notice for the tank removal. No Smoking signs will be placed around the perimeter of the fence and a minimum 40BC rated portable fire extinguisher will be centrally located on-site.

These tanks were placed in temporary closure with the Oakland Fire Department on 3/31/09 under permit number P09-0574 and have been regularly monitored.

Once we complete the above notifications, we will uncover the tanks and lines. If we feel the material generated, approximately 300 cy, could potentially be contaminated, it will be placed on and covered with plastic sheeting and secured from potential run-off. Adams Services will return to the site to clean and ice the tanks and a Marine Chemist will certify the tanks non-hazardous by following all or some of the procedures listed below, which are in accordance with California Code of Regulations, Title 22, Division 4.5, Chapter 32. All of the following closure procedures may not be necessary due to the tanks being placed in the current temporary closure status and having been monitored on a regular basis.

 Use a recently calibrated LEL/O2 meter to measure volatile vapors and percentage of oxygen in the tank's interior. A certified marine chemist will oversee all LEL/O2 measurements.

- Remove all possible remaining fluids via vacuum truck & hoses using proper grounding and bonding procedures.
- Triple-rinse the tank's interior using a 2,000 psi cold water pressure washer, also grounded and bonded. Pump all rinseate using a 2" non sparking stinger lowered through the bung at the low end of each tank.
- Obtain LEL/O2 readings again.
- Introduce pellet dry ice into the tanks under the oversight of the marine chemist. The amount of dry ice will be determined by the tank volume as outlined in the California Code of Regulations, Title 22, Division 4.5, Chapter 32.
- The marine chemist will certify the tanks clean and inert upon visually confirming absence of all sludge and LEL of 0% by taking readings at the top, center and bottom of each tank and providing a completed Hazardous Waste Tank Closure Certification.
- 7. Tanks will be loaded onto trucks provided by Adams Services by way of an excavator provided by Musco and secured with no less than four (4) 4" webbing style straps each. All openings in the tanks shall be plugged, except for a 1/8" vent. Tanks will be transported from the site, the same day as the removal, as non-hazardous waste to Vasco Road Landfill in Livermore.
- Adams Services will provide a bin for the product piping, which will be removed and loaded by Musco. Under California Health and Safety Code 25143.12, piping can be transported as non-hazardous waste to a Class I or II Landfill.

Once the tanks and lines have been removed, soil samples will be collected by Conestoga – Rovers & Associates (CRA) in the presence of the field inspector. The location and manner of sampling and analyses shall be in accordance with Regional Water Quality Control Board (RWQCB) guidelines, as directed by the field inspector and as outlined below.

Water in Excavation?	Tank Size	Minimum # of Soil Samples	Location of Soil Samples	Minimum # of Water Samples
No	≤ 10,000 gallon	Two per tank	One at each end of the tank	None
No	> 10,000 gallon	Three or more per tank	Ends and middle or spaced along tank length	None
Yes	10,000 gallon or less (single tank)	Two	From wall next to tank ends at soil/ground water surface	One
Yes	>10,000 gallon or tank cluster	Four	From wall next to tank ends at soil/groundwater interface	One

In addition, one sample will be collected from under each of the fuel dispensers and along every 20 linear feet of piping trench or change in trench direction. All samples will be collected from two feet of native soil. It will be the discretion of the field inspector if stockpile samples will be collected and how many. All sampling and testing methods will be followed as outlined in Table #2, which is attached. Samples will immediately be sent to Lancaster Laboratory in Lancaster, PA – a California certified lab. Results could be available in as few as 24-hours or as long as one week and if contamination is present,

3026 Lakeshore Avenue February 2, 2010 Page 3 of 4

CRA will work with the Lead Agency to develop a site remediation plan. While awaiting analytical results, the excavation areas shall be secured by barricading them with delineators, which will be wrapped with caution tape.

Once the excavations are rendered clean the stockpiled pea gravel will be utilized to backfill. Additionally, up to 350 tons of ¾" Class II recycled base rock will be imported to fill the void. The material will be placed in 8" – 12" lifts, witnessed by a licensed geotechnical firm and tested to confirm an average 95% compaction has been achieved based on test method ASTM D 1557. A final compaction report will be generated and available for review, if requested.

Oakland Fire Department will be notified with sufficient time (minimum 48-hours) of the tank removal. In addition, CRA will provide a written report of the tank and sampling process within 30-days of the removal.

Please feel free to contact us if additional information is necessary or to discuss the content above.

Respectfully,

MUSCO EXCAVATORS, INC.

Alison Musco

Attachment: Table #2 – "Recommended Minimum Verification Analyses for Underground Storage Tank Leaks"

## RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND STORAGE TANK LEAKS

For use by Unidoes Member Agencies or where approved by your Local Jurisdiction

		TABLE #2 Revised March 1, 1999		
HYDROCARBON LEAK	SOIL ANALY (SW-846 Meth		WATER ANAL (Water/Waste W	
Gasoline (Leaded and Unleaded)	TPHG BTEX EDB and EDC MTBE, TAME,	8015M or 8260 8260 8260 ETBE, DIPE, and TBA by		8015M or 524,2/624 (8260) 524,2/624 (8260) 524,2/624 (8260) 4,2/624 (8260) for water
	Total Lead Organic Lead	AA Optional DHS-LUFT	Total Lead Organic Lead	AA DHS-LUFT
Unknown Fuel	TPHG TPHD BTEX EDB and EDC MTBE, TAME, Total Lead Organic Lead	8015M or 8260 8015M or 8260 8260 8260 ETBE, DIPE, and TBA by AA Optional" DHS-LUFT	TPHG TPHD BTEX EDB and EDC 8260 for soil and 524 Total Lead Organic Lead	8015M or 524.2/624 (8260) 8015M or 524.2/624 (8260) 524.2/624 (8260) 524.2/624 (8260) 524.2/624 (8260) 524.2/624 (8260) for water ΔΔ DHS-LUFT
Diesel, Jet Fuel, Kerosene, and Fuel/Heating Oil	TPHD BTEX EDB and EDC MTBE, TAME,	8015M or 8260 8260 8260 ETBE, DIPE, and TBA by	TPHD BTEX EDB and EDC 8260 for soil and 524	8015M or 524.2/624 (8260) 524.2/624 (8260) 524.2/624 (8260) 1.2/624 (8260) for water
Chlorinated Solvents	CL HC BTEX	8260 8260 or 8021	CL HC BTEX	524.2/624 (8260) 524.2/624 (8260) or 502.2/602 (8021)
Nonchlorinated Solvents	TPHD BTEX	8015M or 8260 8260 or 8021	TPHD BTEX	8015M or 524.2/624 (8268) 524.2/624 (8260) or 502.2/602 (8021)
Waste, Used, or Unknown Oil	Metals (Cd, Cr,	8015M or 8260 8015M or 8260 9070 8260 8260 8260 8260 ETBE, DIPE, and TBA by Pb, Ni, Zn) by ICAP or AA IA, CREOSOTE by 8270 fe	for soil water	
NOTES:				

1. \$021 replaces old methods \$020 and \$010.

2. 8260 replaces old method 8240.

3. Reference: Table B-1 in Appendix B of "Expedited Site Assessment Tools for Underground Storage Tank Sites: A Guide for Regulators" (EPA 510-B-97-001).

www.usaidocs.org

Optional per Regional Water Quality Control Board (Board), but local agency that regulates UST system may require analysis for Organic Lead. Check with your local agency regarding their requirements.

<sup>&</sup>lt;sup>1</sup> If found, analyze for dibenzofurans (PCBs) or dioxins (PCP).

APPENDIX C

## CRA'S STANDARD FIELD PROCEDURES FOR COMPLIANCE SAMPLING

## STANDARD FIELD PROCEDURES FOR COMPLIANCE SAMPLING

This document describes Conestoga-Rovers and Associates' (CRA) standard operating procedures for collecting compliance soil and groundwater samples during underground storage tank (UST) facility removal and excavation. These procedures ensure that the samples are collected, handled, and documented in compliance with California Administration Code Title 23: Waters; Chapter 3: Water Resources Control Board; Subchapter 16: Underground Storage Tank Regulations (Title 23). CRA's sampling procedures are also based on guidelines contained in the California State Regional Water Quality Control Board Tri-Regional Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites dated August 10, 1990.

The objective of sample collection during underground storage tank facility removal or excavation is to evaluate surrounding soils. Excavated soils are typically screened using an organic vapor analyzer (i.e., PID or FID) to determine the presence of petroleum hydrocarbons or other constituents of concern. Additional soil samples may also be collected based on visual observations. The quantity and location of samples will be based on governing regulatory requirements and field observations.

The soil samples are collected in steam cleaned brass or steel tubes from either a slide-hammer type sampler or the bucket of a backhoe. When a backhoe is used, approximately three inches of soil are scraped from the surface and the tube is driven into the exposed soil. Upon removal from the sampler or the backhoe, the samples are trimmed flush, capped with Teflon sheets and plastic end caps, labeled, logged, placed on ice or refrigerated, and transported under chain of custody to a State certified laboratory.

Groundwater samples are collected using new disposable bailers and decanted into laboratory provided containers, labeled, logged, placed on ice or refrigerated, and transported under chain of custody to a State certified laboratory.

APPENDIX D

WASTE MANIFESTS

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9a,	9b. U.S. DOT Description	n (including Proper Shipping N	Name, Hazard Class, ID Nu	umber,	10. Conta	ainers	11. Total	12. Unit	13.	Waste Code
HM	and Packing Group (if ar		SOT ID		No.	Туре	Quantity	Wt./Vol.		1
1	ENPTY UNDER	MARDOUS WASTE GROUND STORAGE	e Tank		1	DT	P)	т	512	
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Pie	ease print or type. (Form designed for use on elite (12-pitcn) typewriter.)	1987 - V				Form	Approved. C	OMB No. 2	050-0039
Î	UNIFORM HAZARDOUS 1. Generator ID Number 01116764	2. Page 1 of 3. Eme 1 80	rgency, Response	Phone 623	4. Manifest T	racking Nu	2885		
	5. Consets Name app. Mailing Address, Waste Tracking Desk P. O. COX 6004 SAN RANDH, CA 94583 925 842-5931 Attn: KATHY NORRIS Generator's Phone:	CHI 304	or's Site Address VROM ST 6 LAKES ULAND ,	ATTON HORE A	an mailing addres 90121 VENUE				
	6. Transporter 1 Company Name     ADAMS SERVICES,	INC.			U.S. EPA ID N		101894	131	
								-	
	8. Designated Facility Name and Site Address 5375 SOUTH BOYLI 14DS ANGELES, CA Facility's Phone:	E AVE.	9 CORP		U.S. EPA ID N		97030	993	
	ga. 9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Numbe HM and Packing Group (if any))	эг,	10. Contair		11. Total Quantity	12. Unit Wt./Vol.	13. V	Vaste Codes	
	1 BUB-REEA HARABLOUS WASIS SULID	ST DEBUTS	No.	Туре	Quality	WILLINGS.			
GENERATOR	a annonannon far blood (r a f 1960) (f 1990) (f 1999)	SA. PHURID	1	CH	~4-	Т	512		
- GEN	2.	22 2				З			
	3.								
	4.						N		
		2							
	<b>DROATECT MARAGRER:</b> MONICA MOLINAR CONTRACTOR: MUSICO EXCAVATING 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of th marked and labeled/placarded, and are in all respects in proper condition for transport a Exporter, I certify that the contents of this consignment conform to the terms of the attact I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a la Generator's/Offeror's Printed/Typed Name	ccording to applicable inte hed EPA Acknowledgmen	and accurately de emational and nati it of Consent.	scribed above	nental regulations	hipping nam	e, and are class nipment and la Mor	am the Prima	iged, ary Year
INT'L	16. International Shipments Import to U.S.	Export from U.S.	Port of en Date leavi						
IRANSPORTER INT'L	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Transporter 2 Printed/Typed Name	Signature	: H	1	)		Mor / / Mor		Year   <u>//</u> / Year
R	18. Discrepancy							_	
Î	18a. Discrepancy Indication Space Quantity Type	[	Residue	La Mada de Carlos	Partial Re	jection		Full Reje	ection
	18b. Alternate Facility (or Generator)	A	Ianifest Reference	e Number:	U.S. EPA ID	Number			
	Facility's Phone:				1				
DEGIGINALED FACILIT	18c. Signature of Alternate Facility (or Generator)						M	onth Day	/ Yea
500	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste tre		cycling systems)		1.				
5	1. 2.	3.			4.				
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials cover Printed/Typed Name	ered by the manifest exce Signature	ept as noted in Iter	m 18a			M	onth Day	Year
DΔ	Form 8700-22 (Rev. 3-05). Previous editions are obsolete					0.000	DATORI		

# 87646

# NON-HAZARDOUS WASTE DATA FORM

_	
	CHEVRON PRODUCTS; Waste Tracking Desk Attn: KATHY NORRIS
	ADDRESS
	CITY, STATE, ZIP SAN RAMON, CA 94583 PHONE NO. ( 929 842-593)
R	CONTAINERS: No1
RATC	
GENERATOR	
	WASTE DESCRIPTION GAS/DIESEL DISPENSER (5) GENERATING PROCESS DISPENSER REPLACEMENT COMPONENTS OF WASTE PPM % COMPONENTS OF WASTE PPM %
ВΥ	
COMPLETED	1. <u>STEEL</u> <u>100</u> 5
IPLE	2 6
NOC	3 7
BE (	8
10	
	HANDLING INSTRUCTIONS:
	Facility: CHEVRON STATION 90121
	3026 LAKESHORE AVENUE 8-5:10 OAKLAND, CA 94610 TYPED OF PRINTED FULL NAME & SIGNATURE DATE
æ	AD AMS SERVICES, INC.
RER	NAME
PORT	ADDRESS SERVICE ORDER NO GARDEN A CA 90248-2962
ANS	CITY, STATE, ZIP PICK UP DATE PHONE NO. ( 310) 523-4430
TRA	PHONE NO. ( ) DO THE AL CASTELLON ALL 8-5-10
	TRUCK, UNIT, I.D. NO. TYPED OR PRINTED FULL NAME & SIGNATURE DATE
	SA RECYCLING Brokin M
	NAMEProfile Id:
≥	3200 E. FRONTERA SY. DISPOSAL METHOD ADDRESS
	ANAHRIM CA 92816
TSD FACILITY	PHONE NO. (714) 777-2277
TSL	TYPED OR PRINTED FULL NAME & SIGNATURE DATE
-	GEN OLD/NEW L A TONS
	TRANS         S         B           C/Q         RT/CD         HWDF NONE         DISCREPANCY
Ma	C/Q HWDF NONE DISCREPANCY

Ple			ned for use on elite (12-pitch) typewrite	r.)								OMB No. 2	2050-0039
1	UNI	FORM HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emer	rgency Respons	e Phone	4. Manifest			~ 1	117
Ш		ASTE MANIFEST	CAR000116764		- U	100 C 100	0 231-	TOTAL AND THE REAL		420	250	<u>9 J</u>	IK
	01 12 57	nerator's Name and Mailin HE VROM PRODU O DOX 600 MH RAMON, CA rator's Phone: 925	CTS; Waste Tracking 4 1 94583			CHE 302	VROM S7 6 LARES 1.AND ,	CATTON SHORE A	VENUE	ss)			
Ш	6. Tra	insporter 1 Company Name							U.S. EPA ID I	Number			
Ш	-		ADAMS SERV	ICES, I	NC.	_				CARDO	01.89	131	
	7. Tra	nsporter 2 Company Name	3						U.S. EPA ID N	Number			
		signated Facility Name and	Site Address VEOLIA ES 1704 W F AZUSA, CA	TECHNI IRST ST 91702	CAL SC REET	I.UT )	IONS.		U.S. EPA ID I	CADO	06303	2903	
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- GENERATOR		2.									104	220	
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TRAN	Transp	oorter 2 Printed/Typed Nam	6		Sig	gnature					Mo	onth Day	Year
1	18. Dis	screpancy											
		iscrepancy Indication Spac	L Quanaty	Туре		M	Residue	ce Number:	Partial Re			Full Rej	ection
DESIGNATED FACILITY		Iternate Facility (or General /s Phone:	(or)						U.S. EPA ID	Number			
SNATED		gnature of Alternate Facility									N	lonth Da	y Year
- DESIG	19. Ha: 1.	zardous Waste Report Mar	nagement Method Codes (i.e., codes for haz	ardous waste trea	atment, disposa 3.	al, and rec	ycling systems)		4.				
	20. Des	signated Facility Owner or	Operator: Certification of receipt of hazardou	us materials cover	ed by the man	ifest exce	pt as noted in Ite	em 18a					
Ļ		/Typed Name				gnature					M	lonth Day	/ Year
EPA	Form 8	8700-22 (Rev. 3-05) Pr	evious editions are obsolete.		00091					GENEE	ATOR		L COP

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► Tank Cleaning ► Industrial and Hazardous Waste Services

406 E. Alondra Blvd. - Gardena, CA 90248-2902 - Tel.: (310) 523-4430 - Fax: (310) 523-1518

DATE: 6/14/10

## SITE: CHEVRON #90121 3026 Lakeshore Avenue Oakland, CA 94610

## TANK ATMOSPHERE LOG

#### INITIAL READING:

				2	ND	
READING	87 TANK	89 TANK	92 TANK	-DIESEL87	TIME	INITIALS
OXYGEN	4.6 %/.	4 3 %	4.2%		3:30Pm	AL
LEL	0%	0 %-	0%		3:30 fm	AL

NOTES:\_\_\_\_\_

#### **AFTER VENTILATION:**

READING	87 TANK	89 TANK	92 TANK	DIESEL	TIME	INITIALS
OXYGEN						
LEL						

NOTES:\_\_\_\_\_

#### AFTER INERTING:

READING	87 TANK	89 TANK	92 TANK	DIESEL 87	TIME	INITIALS
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CUSTOMER'S COPY

Siemens Water Technologies Corp.

**Certificate of Treatment, Waste Management or Recycling** 

Issued To:

KATHY NORRIS CHEVRON PRODUCTS 90121 3026 LAKESHORE AVEUE P.O.BOX 6004 OAKLAND, CA 94610

## This Certifies That:

Manifest Number: 004202881JJK Date Received: 8/11/2010

The waste described on the above manifest was received and accepted by Siemens Water Technologies Corp. for treatment, recycling, or other management in accordance with applicable treatment standards and Federal, State and local requirements. The Siemens Water Technologies Corp. wastewater treatment system treats wastewaters by removing toxic and hazardous constituents, discharging the treated water to the sewer operated by County Sanitation Districts of Los Angeles County, where it is further treated or recycled. Residues and other components of the waste may be recycled where provided for under

Federal, State and local regulations.



Siemens Water Technologies Corp.

Certificate of Treatment, Waste Management or Recycling

Issued To:

KATHY NORRIS CHEVRON PRODUCTS 90121 3026 LAKESHORE AVEUE P.O.BOX 6004 OAKLAND, CA 94610

## This Certifies That:

Manifest Number: 004202882JJK

Date Received: 8/11/2010

The waste described on the above manifest was received and accepted by Siemens Water Technologies Corp. for treatment, recycling, or other management in accordance with applicable treatment standards and Federal, State and local requirements. The Siemens Water Technologies Corp. wastewater treatment system treats wastewaters by removing toxic and hazardous constituents, discharging the treated water to the sewer operated by County Sanitation Districts of Los Angeles County, where it is further treated or recycled. Residues and other components of the waste may be recycled where provided for under

Federal, State and local regulations.

Siemens Water Technologies Corp.

Certificate of Treatment, Waste Management or Recycling

**Issued To:** 

KATHY NORRIS CHEVRON PRODUCTS 90121 3026 LAKESHORE AVEUE P.O.BOX 6004 OAKLAND, CA 94610

This Certifies That:

Manifest Number: 004202883JJK

Date Received: 8/11/2010

The waste described on the above manifest was received and accepted by Siemens Water Technologies Corp. for treatment, recycling, or other management in accordance with applicable treatment standards and Federal, State and local requirements. The Siemens Water Technologies Corp. wastewater treatment system treats wastewaters by removing toxic and hazardous constituents, discharging the treated water to the sewer operated by County Sanitation Districts of Los Angeles County, where it is further treated or recycled. Residues and other components of the waste may be recycled where provided for under

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KATHY NORRIS CHEVRON PRODUCTS 90121 3026 LAKESHORE AVEUE P.O.BOX 6004 OAKLAND, CA 94610

## This Certifies That:

Manifest Number: 004202884JJK

Date Received:

8/11/2010

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KATHY NORRIS CHEVRON PRODUCTS 90121 3026 LAKESHORE AVEUE P.O.BOX 6004 OAKLAND, CA 94610

## This Certifies That:

Manifest Number: 004202885JJK

Date Received: 8/11/2010

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Federal, State and local regulations.

APPENDIX E

McCAMPBELL'S ANALYTICAL RESULTS

When Oual		Web: www.mccampbell.	Road, Pittsburg, CA 945 com E-mail: main@m 52-9262 Fax: 925-25	ccampbell.com
Conestoga-Rovers & Associates	Client Project ID: #311973;	9-0121; 3026 Lakeshore	Date Sampled:	08/10/10
5900 Hollis St, Suite A	Ave, Oakland		Date Received:	08/10/10
5500 Hollis St, Suite A	Client Contact: Dan Glaze	2	Date Reported:	08/11/10
Emeryville, CA 94608	Client P.O.:	Date Completed:	08/11/10	

#### WorkOrder: 1008250

August 11, 2010

Dear Dan:

Enclosed within are:

- 1) The results of the 21 analyzed samples from your project: #311973; 9-0121; 3026 Lakeshore Ave, Oakland,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

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1534 Willow Pass Rd

## CHAIN-OF-CUSTODY RECORD

Page 1 of 1

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Report to:							Bill to:						Req	uested	TAT:	1	day
Dan Glaze Conestoga- 5900 Hollis Emeryville, ( (510) 420-070	CA 94608	cc: PO: ProjectNo:	dglaze@CRA #311973; 9-0´ Oakland	world.com I21; 3026 Lakesl	nore A	ve,	Co 59	counts F onestoga 100 Hollis neryville	a-Rov s St, S	ers & As Ste. A	sociate	es		e Rece e Prin	eived: ted:	08/10/ 08/10/	
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1008250-009	P-9		Soil	8/10/2010 12:55				А		А							
1008250-010	P-10		Soil	8/10/2010 13:02				А		А							
1008250-011	P-11		Soil	8/10/2010 13:03				А		А							
1008250-012	P-12		Soil	8/10/2010 13:13				А		А							
1008250-013	P-13		Soil	8/10/2010 13:15				А		А							
1008250-014	P-14		Soil	8/10/2010 13:21				А		А							
Test Legend:	7MS_S 2	G-MBTE	xs	3 (	GAS826	50 S		4		GAS8	260_W	]	ſ	5	TPi	H(D)_S	
	(D)_W 7			8				9						10		<u>\-</u> /_¥	

1	CAM17MS_S		2	G-MBTEX_S
6	TPH(D)_W	[	7	
11		[	12	

GAS8260_S	4	GA\$8260_W
	9	

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015B, 016A, 017A, 018A, 019A, 020A, 021A contain testgroup.

Prepared by: Ana Venegas

**Comments:** 24hr rush

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

	AW.
[	NU
10	

1534 Willow Pass Rd

## CHAIN-OF-CUSTODY RECORD

Page 1 of 1

	g, CA 94565-1701 52-9262					Work	Order:	10082	250	(	ClientC	Code: (	ETE				
		WaterTrax	WriteOn	EDF	Ľ	Excel	[	Fax	[	🖌 Email		Hard	dCopy	Thir	<sup>.</sup> dParty	□ J-	flag
Report to: Dan Glaze Conestoga- 5900 Hollis Emeryville, (510) 420-070	CA 94608	cc: PO: ProjectNo: <i>‡</i>	dglaze@CRA #311973; 9-0 <sup>-</sup> Dakland	world.com 121; 3026 Lakesho	ore A		Co 59	counts nestoga 00 Holli neryville	a-Rove s St, St	ers & As te. A	sociat	es	Dat	uested e Rece e Print	ived:	1 08/10/ 08/10/	
									Req	uested	Tests	(See le	gend b	elow)			
Lab ID	Client ID		Matrix	<b>Collection Date</b>	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1008250-015	GW-1		Water	8/10/2010 13:30					В		Α						
1008250-016	EX-6		Soil	8/10/2010 11:31				А		А							
1008250-017	EX-5		Soil	8/10/2010 11:28				А		А							
1008250-018	EX-4		Soil	8/10/2010 11:24				А		А							
1008250-019	EX-3		Soil	8/10/2010 11:21				А		Α							
1008250-020	EX-2		Soil	8/10/2010 11:17				А		Α							
1008250-021	EX-1		Soil	8/10/2010 11:11				А		А							
1008250-022	SS-3		Soil	8/10/2010 12:41		А	А			А							
1008250-023	SS-2		Soil	8/10/2010 12:32		А	А			А							
1008250-024	SS-1		Soil	8/10/2010 12:24		А	А			Α							

#### Test Legend:

1	CAM17MS_S	2 G-MBTEX_S	3 GAS8260_S	4 GAS8260_W	5 TPH(D)_S
6	TPH(D)_W	7	8	9	10
11		12			

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015B, 016A, 017A, 018A, 019A, 020A, 021A contain testgroup.

Prepared by: Ana Venegas

**Comments:** 24hr rush

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



"When Ouality Counts"

## Sample Receipt Checklist

Client Name:	Conestoga-Rovers & Associ	ates		Date a	nd Time Received:	8/10/2010	4:56:42 PM
Project Name:	#311973; 9-0121; 3026 Lakes	hore Ave,	Oakland	d Check	list completed and re	eviewed by:	Ana Venegas
WorkOrder N°:	1008250 Matrix <u>Soil/W</u>	/ater		Carrier	r: <u>Client Drop-In</u>		
		<u>Chain of Cu</u>	stody (C	OC) Informa	tion		
Chain of custody	present?	Yes	$\checkmark$	No 🗆			
Chain of custody	signed when relinquished and receiv	ved? Yes	$\checkmark$	No 🗆			
Chain of custody	agrees with sample labels?	Yes	$\checkmark$	No 🗌			
Sample IDs noted	I by Client on COC?	Yes	$\checkmark$	No 🗆			
Date and Time of	collection noted by Client on COC?	Yes	$\checkmark$	No 🗆			
Sampler's name r	noted on COC?	Yes	✓	No 🗆			
		<u>Sample</u>	Receipt	Information			
Custody seals int	tact on shipping container/cooler?	Yes		No 🗆		NA 🔽	
Shipping containe	er/cooler in good condition?	Yes	✓	No 🗆			
Samples in prope	er containers/bottles?	Yes	✓	No 🗆			
Sample containe	rs intact?	Yes	$\checkmark$	No 🗆			
Sufficient sample	e volume for indicated test?	Yes	✓	No 🗌			
	Sample	Preservatio	n and Ho	old Time (HT)	Information		
All samples recei	ved within holding time?	Yes	✓	No 🗌			
Container/Temp E	Blank temperature	Coole	er Temp:	5.8°C		NA 🗆	
Water - VOA vial	ls have zero headspace / no bubbles	? Yes	✓	No 🗆	No VOA vials subm	itted	
Sample labels ch	necked for correct preservation?	Yes	$\checkmark$	No 🗌			
Metal - pH accept	table upon receipt (pH<2)?	Yes		No 🗆		NA 🗹	
Samples Receive		Yes	$\checkmark$	No 🗆			
	(le	ce Type: WE	TICE	)			
* NOTE: If the "N	lo" box is checked, see comments b	elow.					

Client contacted:

Date contacted:

Contacted by:

Comments:

	Campbell Analyti	cal, Inc.	Web: www.mccamp	Pass Road, Pittsburg bell.com E-mail: 377-252-9262 Fa	main@m	ccampbell.	com		
Conestoga-Rov	vers & Associates	•	#311973; 9-0121; 3026		Date Sampled: 08/10/10				
5900 Hollis St,	Suite A	Lakeshore Ave, O	Lakeshore Ave, Oakland Date Receiv						
5900 Homs St,	Suite A	Client Contact: D	Dan Glaze	Date Extract	ed: 08	/10/10-0	8/11/10		
Emeryville, CA	94608	Client P.O.:		Date Analyz	ed 08	/10/10-0	8/11/10		
		TPH(g) by Purge &	& Trap and GC/MS*						
Extraction method SV			methods SW8260B		1	rk Order:	1008250		
Lab ID	Client ID	Matrix	TPH(g)		DF	% SS	Comments		
001A	P-1	S	5.7		2	88			
002A	P-2	S	7.2		1	118			
003A	P-3	S	9.4		4	117			
004A	P-4	S	980		200	83			
005A	P-5	S	1.1		1	110			
006A	P-6	S	2.2		1	118			
007A	P-7	S	8.4		2	93			
008A	P-8	S	410		100	109			
009A	P-9	S	0.89		1	119			
010A	P-10	S	1.3		1	105			
011A	P-11	S	390		100	96			
012A	P-12	S	770		200	93			
013A	P-13	S	780		100	97			
014A	P-14	S	620		100	99			
015B	GW-1	W	360		1	113	b1		
016A	EX-6	S	1.6		1	116			
-	orting Limit for DF =1; neans not detected at or	W	50			μg/L			
	ve the reporting limit	S	0.25			mg/kg	3		

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

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

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b1) aqueous sample that contains greater than ~1 vol. % sediment

DHS ELAP Certification 1644



Angela Rydelius, Lab Manager

	Campbell Analyt "When Ouality Counts"	ical, Inc.	Web: www.mccamp	Pass Road, Pittsbur bbell.com E-mail: 377-252-9262 Fa	- : main@m	ccampbell.	com		
Conestoga-Rove	rs & Associates	5	#311973; 9-0121; 3026		Date Sampled: 08/10/10				
5900 Hollis St, Su	iite A	Lakeshore Ave, O	Lakeshore Ave, Oakland Date Receiv						
,		Client Contact: D	an Glaze	Date Extract	ed: 08/10/10-08/11/10				
Emeryville, CA 94	4608	Client P.O.:		Date Analyz	zed 08	/10/10-0	8/11/10		
Extraction method SW5	030B		<b>&amp; Trap and GC/MS*</b> nethods SW8260B		Wo	ork Order:	1008250		
Lab ID	Client ID	Matrix	TPH(g)		DF	% SS	Comments		
017A	EX-5	S	0.78		1	116			
018A	EX-4	S	20		2	107			
019A	EX-3	S	1.1		1	92			
020A	EX-2	S	7.9		1	106			
021A	EX-1	S	2.5		1	90			
	ing Limit for DF =1;	W	50			μg/L			
	ns not detected at or the reporting limit	S	0.25			mg/kg	g		

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

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%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b1) aqueous sample that contains greater than ~1 vol. % sediment

DHS ELAP Certification 1644



Angela Rydelius, Lab Manager

When Ouality			•	bell.com E-mail: main 377-252-9262 Fax: 92	•	om	
Conestoga-Rovers & Associates		oject ID: #31197		Date Sampled:	08/10/10		
5900 Hollis St, Suite A	Lakesho	re Ave, Oakland		Date Received: 08/10/10			
5700 Hollis by Bulle H	Client C	ontact: Dan Gla	ze	Date Extracted:	08/10/10-08	8/11/10	
Emeryville, CA 94608	Client P.	0.:		Date Analyzed:	08/10/10-03	8/11/10	
	Oxygenates, MB	TEX & Lead Sca	avengers by GC/N	/IS*			
Extraction Method: SW5030B	Ana	lytical Method: SW82	60B		Work Order:	1008250	
Lab ID	1008250-001A	1008250-002A	1008250-003A	1008250-004A			
Client ID	P-1	P-2		P-4	Reporting		
Matrix	S	S	S	S	DF =1		
DF	2	1	4	200	s	W	
Compound		Cond	·	mg/kg	ug/L		
tert-Amyl methyl ether (TAME)	ND<0.010	ND	ND<0.020	ND<1.0	0.005	NA	
Benzene	0.041	ND	ND<0.020	1.4	0.005	NA	
t-Butyl alcohol (TBA)	ND<0.10	0.17	0.24	ND<10	0.05	NA	
1,2-Dibromoethane (EDB)	ND<0.0080	ND	ND<0.016	ND<0.80	0.004	NA	
1,2-Dichloroethane (1,2-DCA)	ND<0.0080	ND	ND<0.016	ND<0.80	0.004	NA	
Diisopropyl ether (DIPE)	ND<0.010	ND	ND<0.020	ND<1.0	0.005	NA	
Ethanol	ND<1.0	ND	ND<2.0	ND<100	0.5	NA	
Ethylbenzene	0.040	0.039	ND<0.020	16	0.005	NA	
Ethyl tert-butyl ether (ETBE)	ND<0.010	ND	ND<0.020	ND<1.0	0.005	NA	
Methyl-t-butyl ether (MTBE)	0.074	0.17	0.46	ND<1.0	0.005	NA	
Toluene	0.22	ND	ND<0.020	ND<1.0	0.005	NA	
Xylenes	0.20	0.16	0.035	2.6	0.005	NA	
	Suri	ogate Recoverie	es (%)	-			
%SS1:	94	99	94	96			
%SS2:	103	106	102	101			

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

When Ouality			Web: www.mccamp Telephone: 8	bell.com E-mail: mai 877-252-9262 Fax: 92	n@mccampbell.c 25-252-9269	om	
Conestoga-Rovers & Associates		oject ID: #31197 re Ave, Oakland		Date Sampled:	08/10/10		
5900 Hollis St, Suite A	Lakesho	ie Ave, Oakialiu		Date Received:	08/10/10		
,	Client C	ontact: Dan Gla	ze	Date Extracted:	08/10/10-08	8/11/10	
Emeryville, CA 94608	Client P.	0.:		Date Analyzed:	08/10/10-08	8/11/10	
	Oxygenates, MB	TEX & Lead Sca	avengers by GC/N	MS*			
Extraction Method: SW5030B	Ana	lytical Method: SW82	60B		Work Order:	1008250	
Lab ID	1008250-005A	1008250-006A	1008250-007A	1008250-008A			
Client ID	P-5	P-6	P-7	P-8	Reporting DF		
Matrix	S	S	S	S		=1	
DF	1	1	2	20	S	W	
Compound		Conc	centration		mg/kg	ug/L	
tert-Amyl methyl ether (TAME)	ND	ND	ND<0.010	ND<0.10	0.005	NA	
Benzene	ND	ND	ND<0.010	ND<0.10	0.005	NA	
t-Butyl alcohol (TBA)	ND	ND	ND<0.10	ND<1.0	0.05	NA	
1,2-Dibromoethane (EDB)	ND	ND	ND<0.0080	ND<0.080	0.004	NA	
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND<0.0080	ND<0.080	0.004	NA	
Diisopropyl ether (DIPE)	ND	ND	ND<0.010	ND<0.10	0.005	NA	
Ethanol	ND	ND	ND<1.0	ND<10	0.5	NA	
Ethylbenzene	ND	0.0054	ND<0.010	3.0	0.005	NA	
Ethyl tert-butyl ether (ETBE)	ND	ND	ND<0.010	ND<0.10	0.005	NA	
Methyl-t-butyl ether (MTBE)	ND	0.0081	0.037	ND<0.10	0.005	NA	
Toluene	ND	ND	ND<0.010	ND<0.10	0.005	NA	
Xylenes	ND	ND	ND<0.010	0.12	0.005	NA	
	Surr	ogate Recoverie	es (%)				
%SS1:	92	93	92	93			
%SS2:	109	109	103	109			

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

"When Oualit				Web:         www.mccampbell.com         E-mail:         main@mccampbell.com           Telephone:         877-252-9262         Fax:         925-252-9269							
	C	lient Pro	oject ID: #31197	3; 9-0121; 3026	Date Sampled:	08/10/10					
	L	akeshor	e Ave, Oakland		Date Received: 08/10/10						
900 Hollis St, Suite A	C	lient Co	ontact: Dan Glaz	76	Date Extracted:	08/10/10-08	8/11/10				
Emeryville, CA 94608											
		lient P.C			Date Analyzed:	08/10/10-08	5/11/10				
	Oxygenate			vengers by GC/N	AS*						
Extraction Method: SW5030B	40000000		ytical Method: SW82		100000000000	Work Order:	1008250				
Lab ID	1008250-	-009A	1008250-010A	1008250-011A	1008250-012A						
Client ID	P-9		P-10	P-11	P-12	Reporting DF					
Matrix	S		S	S	S						
DF	1		1	100	200	S	W				
Compound			Conc	entration	<u>.</u>	mg/kg	ug/L				
ert-Amyl methyl ether (TAME)	ND	)	ND	ND<0.50	ND<1.0	0.005	NA				
enzene	ND	)	ND	ND<0.50	ND<1.0	0.005	NA				
Butyl alcohol (TBA)	ND	)	ND	ND<5.0	ND<10	0.05	NA				
,2-Dibromoethane (EDB)	ND	ND		ND<0.40	ND<0.80	0.004	NA				
,2-Dichloroethane (1,2-DCA)	ND	)	ND	ND<0.40	ND<0.80	0.004	NA				
Diisopropyl ether (DIPE)	ND	)	ND	ND<0.50	ND<1.0	0.005	NA				
thanol	ND	)	ND	ND<50	ND<100	0.5	NA				
thylbenzene	ND	)	ND	ND<0.50	ND<1.0	0.005	NA				
thyl tert-butyl ether (ETBE)	ND	)	ND	ND<0.50	ND<1.0	0.005	NA				
fethyl-t-butyl ether (MTBE)	0.005	51	ND	ND<0.50	ND<1.0	0.005	NA				
oluene	ND		ND	ND<0.50	ND<1.0	0.005	NA				
Cylenes	ND		ND	ND<0.50	ND<1.0	0.005	NA				
		Surro	ogate Recoverie	s (%)							
%SS1:	88		91	114	117						
%SS2: comments	109	)	109	90	90 a3						

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

When Ouality			Web: www.mccamp Telephone: 8	877-252-9262 Fax: 92	@mccampbell.c 5-252-9269	UIII	
Conestoga-Rovers & Associates		roject ID: #31197 ore Ave, Oakland	Date Sampled:	08/10/10			
5900 Hollis St, Suite A	Lakesh	Jie Ave, Oakialiu	08/10/10				
	Client C	Contact: Dan Glaz	ze	Date Extracted:	08/10/10-08	8/11/10	
Emeryville, CA 94608	Client P	.0.:		Date Analyzed:	08/10/10-08	8/11/10	
	Oxygenates, MI	BTEX & Lead Sca	avengers by GC/N	/IS*			
Extraction Method: SW5030B	An	alytical Method: SW82	60B		Work Order:	1008250	
Lab ID	1008250-013A	1008250-014A	1008250-016A	1008250-017A			
Client ID	P-13	P-14	EX-6	EX-5	Reporting		
Matrix	S	S	S	S	DF =1		
DF	100	100	1	1	S	W	
Compound		Conc	centration		mg/kg	ug/L	
tert-Amyl methyl ether (TAME)	ND<0.50	ND<0.50	ND	ND	0.005	NA	
Benzene	0.70	1.0	ND	ND	0.005	NA	
t-Butyl alcohol (TBA)	ND<5.0	ND<5.0	ND	0.12	0.05	NA	
1,2-Dibromoethane (EDB)	ND<0.40	ND<0.40	ND	ND	0.004	NA	
1,2-Dichloroethane (1,2-DCA)	ND<0.40	ND<0.40	ND	ND	0.004	NA	
Diisopropyl ether (DIPE)	ND<0.50	ND<0.50	ND	ND	0.005	NA	
Ethanol	ND<50	ND<50	ND	ND	0.5	NA	
Ethylbenzene	5.9	9.4	ND	ND	0.005	NA	
Ethyl tert-butyl ether (ETBE)	ND<0.50	ND<0.50	ND	ND	0.005	NA	
Methyl-t-butyl ether (MTBE)	ND<0.50	ND<0.50	ND	0.087	0.005	NA	
Toluene	ND<0.50	ND<0.50	ND	ND	0.005	NA	
Xylenes	0.66	0.84	ND	ND	0.005	NA	
	Sur	rogate Recoverie	es (%)				
%SS1:	123	123	92	91			
%SS2:	92	93	108	108	<u> </u>		

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

When Ouality			Web: www.mccamp Telephone: 8	bell.com E-mail: main 377-252-9262 Fax: 92:	@mccampbell.c 5-252-9269	om		
Conestoga-Rovers & Associates		oject ID: #31197 re Ave, Oakland	3; 9-0121; 3026	Date Sampled:	08/10/10			
5900 Hollis St, Suite A	Lakesno	re Ave, Oakland		Date Received:	08/10/10			
	Client C	ontact: Dan Glaz	æ	Date Extracted:	08/10/10-09	8/11/10		
Emeryville, CA 94608	Client P.	0.:		Date Analyzed:	08/10/10-03	8/11/10		
	Oxygenates, MB	TEX & Lead Sca	vengers by GC/N	/IS*				
Extraction Method: SW5030B	Ana	lytical Method: SW820	50B		Work Order:	1008250		
Lab ID	1008250-018A	1008250-019A	1008250-020A	1008250-021A				
Client ID	EX-4	EX-3	EX-2	EX-1	Reporting Limit			
Matrix	S	S	S	S	DF =1			
DF	2	4	1	1	S	W		
Compound		Conc	entration		mg/kg	ug/L		
tert-Amyl methyl ether (TAME)	ND<0.010	ND<0.020	ND	ND	0.005	NA		
Benzene	ND<0.010	ND<0.020	ND	ND	0.005	NA		
t-Butyl alcohol (TBA)	0.23	0.35	ND	0.16	0.05	NA		
1,2-Dibromoethane (EDB)	ND<0.0080	ND<0.016	ND	ND	0.004	NA		
1,2-Dichloroethane (1,2-DCA)	ND<0.0080	ND<0.016	ND	ND	0.004	NA		
Diisopropyl ether (DIPE)	ND<0.010	ND<0.020	ND	ND	0.005	NA		
Ethanol	ND<1.0	ND<2.0	ND	ND	0.5	NA		
Ethylbenzene	ND<0.010	ND<0.020	ND	ND	0.005	NA		
Ethyl tert-butyl ether (ETBE)	ND<0.010	ND<0.020	ND	ND	0.005	NA		
Methyl-t-butyl ether (MTBE)	0.22	0.77	0.041	0.18	0.005	NA		
Toluene	ND<0.010	ND<0.020	ND	ND	0.005	NA		
Xylenes	ND<0.010	ND<0.020	ND	ND	0.005	NA		
	Surr	ogate Recoverie	s (%)					
%SS1:	92	112	92	91				
%SS2:	107	95	109	108				

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

WcCampbell An "When Quality		<u>ic.</u>		Web: www.mccamp	Pass Road, Pittsburg, CA obell.com E-mail: main 877-252-9262 Fax: 92	@mccampbell.c	com	
Conestoga-Rovers & Associates	Client Pro	oject ID: #	311973	3; 9-0121; 3026	Date Sampled:	08/10/10		
		re Ave, Oa			Date Received: 08/10/10			
5900 Hollis St, Suite A	Client C	Client Contact: Dan Glaze Date Extracted: 08/10/10						
Emeryville, CA 94608	Client P.0	0.:			Date Analyzed:	08/10/10		
	Oxygenates, MB'				MS*			
Extraction Method: SW5030B Lab ID	Ana 1008250-015B	lytical Method	: SW826	0B		Work Order:	1008250	
	GW-1					-		
Client ID	0.0-1						Limit for $T = 1$	
Matrix	W						-1	
DF	1					S	W	
Compound			Conce	entration		ug/kg	μg/L	
tert-Amyl methyl ether (TAME)	ND					NA	0.5	
Benzene	ND					NA	0.5	
t-Butyl alcohol (TBA)	15					NA	2.0	
1,2-Dibromoethane (EDB)	ND					NA	0.5	
1,2-Dichloroethane (1,2-DCA)	ND					NA	0.5	
Diisopropyl ether (DIPE)	ND					NA	0.5	
Ethanol	ND					NA	50	
Ethylbenzene	ND					NA	0.5	
Ethyl tert-butyl ether (ETBE)	ND					NA	0.5	
Methyl-t-butyl ether (MTBE)	20					NA	0.5	
Toluene	ND					NA	0.5	
Xylenes	1.1					NA	0.5	
	Surr	ogate Reco	overies	s (%)				
%SS1:	101							
%SS2: Comments	98 b1							
water and vapor samples are reported in extracts are reported in mg/L, wipe sampl ND means not detected above the reporti	μg/L, soil/sludge/so es in μg/wipe.	-					LP & SPLI	
f surrogate diluted out of range or coelut SSS = Percent Recovery of Surrogate Sta DF = Dilution Factor	-	k; &) low su	rrogate	due to matrix inter	ference.			

b1) aqueous sample that contains greater than ~1 vol. % sediment

McC	Campbell Analyti	cal, Inc.	Web: www.mccamp		nail: main	@mccamp	bell.com
Conestoga-Rove	"When Ouality Counts" ers & Associates	Client Project II	D: #311973; 9-0121; 3026	Date Sam			
6		Lakeshore Ave		Date Rec	-		
5900 Hollis St, St	uite A		P. Cl				
		Client Contact:	Dan Glaze	Date Extr			
Emeryville, CA 9	4608	Client P.O.:		Date Ana	lyzed	08/10/1	0-08/11/10
			Petroleum Hydrocarbons*			W 101	er: 1008250
Extraction method SW			cal methods: SW8015B TPH-Diesel			Work Orde	
Lab ID	Client ID	Matrix	(C10-C23)		DF	% SS	Comments
1008250-001A	P-1	S	6.0		1	120	e7,e4,e2
1008250-002A	P-2	S	12		1	119	e4,e2,e7
1008250-003A	P-3	S	11		1	119	e4,e2,e7
1008250-004A	P-4	S	730		2	105	e11/e8,e7
1008250-005A	P-5	S	30		1	117	e11/e8,e7
1008250-006A	P-6	S	9.4		1	104	e8,e7
1008250-007A	P-7	S	900		10	100	e1,e7
1008250-008A	P-8	S	150		1	111	e4,e2
1008250-009A	P-9	S	ND		1	112	
1008250-010A	P-10	S	1.5		1	112	e2
1008250-011A	P-11	S	290		1	115	e11/e8
1008250-012A	P-12	S	1100		20	118	e11/e8,e7
1008250-013A	P-13	S	610		1	116	e11/e8,e7
1008250-014A	P-14	S	420		20	106	e11/e8,e7
1008250-015A	GW-1	W	2500		1	80	e1,b1
	ng Limit for DF =1;	W	50			μg	:/L
	ns not detected at or the reporting limit	S	1.0			mg	/Kg

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

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

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

b1) aqueous sample that contains greater than ~1 vol. % sediment

e1) unmodified or weakly modified diesel is significant

e2) diesel range compounds are significant; no recognizable pattern

e4) gasoline range compounds are significant.

e7) oil range compounds are significant

e11) stoddard solvent/mineral spirit (?); and/or e8) kerosene/kerosene range/jet fuel range

	ampbell Anal "When Ouality Cou		Web: www.mccamp	Pass Road, Pitts bbell.com E-1 877-252-9262	nail: main	@mccamp	bell.com
Conestoga-Rover			#311973; 9-0121; 3026	Date Sam			
conestogu Rover	s & Hisboriates	Lakeshore Ave, Oa					
5900 Hollis St, Su	ite A			Date Rec	eived:	08/10/1	0
		Client Contact: Da	an Glaze	Date Extr	acted:	08/10/1	0
Emeryville, CA 94	608	Client P.O.:		Date Ana	lyzed	08/10/1	0-08/11/10
		Total Extractable Petr	oleum Hydrocarbons*				
Extraction method SW3	3510C/SW3550B	Analytical m	ethods: SW8015B			Work Ord	er: 1008250
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)		DF	% SS	Comments
1008250-016A	EX-6	S	18		1	91	e1
1008250-017A	EX-5	S	ND		1	80	
1008250-018A	EX-4	S	27		1	105	e4,e2
1008250-019A	EX-3	S	ND		1	88	
1008250-020A	EX-2	S	7.0		1	91	e4,e2
1008250-021A	EX-1	S	2.3		1	87	e4
	g Limit for DF $=1$ ; s not detected at or	W	50			μg	
	ne reporting limit	S	1.0			mg	/Kg

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

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

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

b1) aqueous sample that contains greater than ~1 vol. % sediment

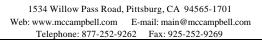
e1) unmodified or weakly modified diesel is significant

e2) diesel range compounds are significant; no recognizable pattern

e4) gasoline range compounds are significant.

e7) oil range compounds are significant

e11) stoddard solvent/mineral spirit (?); and/or e8) kerosene/kerosene range/jet fuel range



"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil			QC Matri	x: Soil			BatchID: 52359				WorkOrder 1008250			
EPA Method SW8260B	Extra	ction SW	5030B					5	Spiked San	nple ID	: 1008187-0	01A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)			
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
tert-Amyl methyl ether (TAME)	ND	0.050	72.3	75.3	4.09	83.6	84.5	1.09	70 - 130	30	70 - 130	30		
Benzene	ND	0.050	98.7	102	3.04	108	109	0.344	70 - 130	30	70 - 130	30		
t-Butyl alcohol (TBA)	ND	0.25	82	83.4	1.71	77.8	85.6	9.61	70 - 130	30	70 - 130	30		
1,2-Dibromoethane (EDB)	ND	0.050	92.8	98.6	6.08	103	111	6.94	70 - 130	30	70 - 130	30		
1,2-Dichloroethane (1,2-DCA)	ND	0.050	98.8	102	3.58	123	127	3.40	70 - 130	30	70 - 130	30		
Diisopropyl ether (DIPE)	ND	0.050	94.7	98	3.49	107	109	1.75	70 - 130	30	70 - 130	30		
Ethyl tert-butyl ether (ETBE)	ND	0.050	91.3	94.9	3.88	103	106	2.31	70 - 130	30	70 - 130	30		
Methyl-t-butyl ether (MTBE)	ND	0.050	95.5	99.8	4.37	112	116	3.47	70 - 130	30	70 - 130	30		
Toluene	ND	0.050	112	113	0.752	118	123	4.43	70 - 130	30	70 - 130	30		
%SS1:	108	0.13	96	95	1.71	120	122	1.46	70 - 130	30	70 - 130	30		
%SS2:	103	0.13	108	101	6.43	115	118	2.70	70 - 130	30	70 - 130	30		

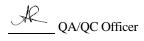
#### BATCH 52359 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008250-001A	08/10/10 11:48 AM	08/10/10	08/11/10 12:46 PM	1008250-001A	08/10/10 11:48 AM	08/10/10	08/11/10 12:46 PM
1008250-002A	08/10/10 11:59 AM	08/10/10	08/10/10 10:13 PM	1008250-002A	08/10/10 11:59 AM	08/10/10	08/10/10 10:13 PM
1008250-003A	08/10/10 12:07 PM	08/10/10	08/10/10 10:56 PM	1008250-003A	08/10/10 12:07 PM	08/10/10	08/10/10 10:56 PM
1008250-004A	08/10/10 12:16 PM	08/10/10	08/11/10 12:24 AM	1008250-004A	08/10/10 12:16 PM	08/10/10	08/11/10 12:24 AM
1008250-005A	08/10/10 12:25 PM	08/10/10	08/11/10 2:36 AM	1008250-005A	08/10/10 12:25 PM	08/10/10	08/11/10 2:36 AM
1008250-006A	08/10/10 12:30 PM	08/10/10	08/11/10 3:19 AM	1008250-006A	08/10/10 12:30 PM	08/10/10	08/11/10 3:19 AM
1008250-007A	08/10/10 12:35 PM	08/10/10	08/11/10 4:01 AM	1008250-007A	08/10/10 12:35 PM	08/10/10	08/11/10 4:01 AM
1008250-008A	08/10/10 12:40 PM	08/10/10	08/11/10 1:30 PM	1008250-008A	08/10/10 12:40 PM	08/10/10	08/11/10 2:56 PM
1008250-009A	08/10/10 12:55 PM	08/10/10	08/11/10 5:26 AM	1008250-009A	08/10/10 12:55 PM	08/10/10	08/11/10 5:26 AM
1008250-010A	08/10/10 1:02 PM	08/10/10	08/11/10 6:10 AM	1008250-010A	08/10/10 1:02 PM	08/10/10	08/11/10 6:10 AM
1008250-011A	08/10/10 1:03 PM	08/10/10	08/11/10 11:30 AM	1008250-011A	08/10/10 1:03 PM	08/10/10	08/11/10 11:30 AM
1008250-012A	08/10/10 1:13 PM	08/10/10	08/11/10 12:12 PM	1008250-012A	08/10/10 1:13 PM	08/10/10	08/11/10 12:12 PM

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

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

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery. The LCS and LCSD are spikes into a clean, known, similar matrix and they and the surrogate standards reflect the overall validity of their extraction batch. Our control limits are 70-130% recovery and a 30% RPD for the LCS-LCSD and for the Surrogate Standards.



"When Ouality Counts"

## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil			QC Matri	x: Soil			BatchID: 52395 WorkOrder 100825					50
EPA Method SW8260B	Extra	ction SW	5030B					5	Spiked San	nple ID	: 1008250-0	16A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	83.8	85.5	2.02	90.9	88.6	2.57	70 - 130	30	70 - 130	30
Benzene	ND	0.050	117	115	1.11	125	122	2.25	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	83.3	94.6	12.6	96.5	93	3.69	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	90.1	91.6	1.63	99.4	96.4	3.09	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	104	106	1.92	112	110	1.45	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	118	114	3.58	119	116	2.16	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	101	101	0	109	106	1.95	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	95.7	101	5.13	105	102	2.26	70 - 130	30	70 - 130	30
Toluene	ND	0.050	116	114	2.08	126	122	2.46	70 - 130	30	70 - 130	30
%SS1:	92	0.13	100	104	3.21	100	102	1.95	70 - 130	30	70 - 130	30
%SS2:	108	0.13	106	107	0.956	113	113	0	70 - 130	30	70 - 130	30

#### BATCH 52395 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008250-013A	08/10/10 1:15 PM	08/11/10	08/11/10 12:55 PM	1008250-013A	08/10/10 1:15 PM	08/11/10	08/11/10 12:55 PM
1008250-014A	08/10/10 1:21 PM	08/10/10	08/11/10 1:37 PM	1008250-014A	08/10/10 1:21 PM	08/10/10	08/11/10 1:37 PM
1008250-016A	08/10/10 11:31 AM	08/10/10	08/11/10 6:53 AM	1008250-016A	08/10/10 11:31 AM	08/10/10	08/11/10 6:53 AM
1008250-017A	08/10/10 11:28 AM	08/10/10	08/11/10 7:36 AM	1008250-017A	08/10/10 11:28 AM	08/10/10	08/11/10 7:36 AM
1008250-018A	08/10/10 11:24 AM	08/10/10	08/11/10 2:14 PM	1008250-018A	08/10/10 11:24 AM	08/10/10	08/11/10 2:14 PM
1008250-019A	08/10/10 11:21 AM	08/10/10	08/11/10 9:03 AM	1008250-019A	08/10/10 11:21 AM	08/10/10	08/11/10 2:19 PM
1008250-020A	08/10/10 11:17 AM	08/10/10	08/11/10 11:13 AM	1008250-020A	08/10/10 11:17 AM	08/10/10	08/11/10 11:13 AM
1008250-021A	08/10/10 11:11 AM	08/10/10	08/11/10 11:56 AM	1008250-021A	08/10/10 11:11 AM	08/10/10	08/11/10 11:56 AM

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

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

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery. The LCS and LCSD are spikes into a clean, known, similar matrix and they and the surrogate standards reflect the overall validity of their extraction batch. Our control limits are 70-130% recovery and a 30% RPD for the LCS-LCSD and for the Surrogate Standards.

A \_ QA/QC Officer



"When Ouality Counts"

## QC SUMMARY REPORT FOR SW8260B

EPA Method SW8260B	Extra	ction SW	5030B					S	Spiked San	nple ID	: 1008227-0	07c
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	108	106	1.44	86	86.1	0.212	70 - 130	30	70 - 130	30
Benzene	1.7	10	117	108	6.61	91.2	90.9	0.309	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	104	114	9.19	72.6	70.6	2.83	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	111	115	3.44	91.7	90.4	1.44	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	120	119	0.556	90.3	89.2	1.21	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	127	123	3.28	96.3	97.7	1.42	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	118	116	1.11	95.9	95.2	0.663	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	116	119	2.43	106	104	2.56	70 - 130	30	70 - 130	30
Toluene	1.3	10	109	98.8	8.51	84.1	84.1	0	70 - 130	30	70 - 130	30
%SS1:	112	25	109	111	1.39	112	112	0	70 - 130	30	70 - 130	30
%SS2:	105	25	103	102	0.123	94	93	1.03	70 - 130	30	70 - 130	30

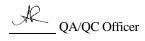
#### BATCH 52376 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008250-015B	08/10/10 1:30 PM	08/10/10	08/10/10 11:40 PM	1008250-015B	08/10/10 1:30 PM	08/10/10	08/10/10 11:40 PM

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

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

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery. The LCS and LCSD are spikes into a clean, known, similar matrix and they and the surrogate standards reflect the overall validity of their extraction batch. Our control limits are 70-130% recovery and a 30% RPD for the LCS-LCSD and for the Surrogate Standards.





#### "When Ouality Counts"

#### QC SUMMARY REPORT FOR SW8015B

Extraction SW3550B					Spiked Sample ID: 10081					
e Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
g mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
40	119	120	0.146	118	116	1.66	70 - 130	30	70 - 130	30
25	112	112	0	101	99	1.69	70 - 130	30	70 - 130	30
b	ole Spiked Kg mg/Kg 40	le Spiked MS (g mg/Kg % Rec. 40 119	Spiked         MS         MSD           Xg         mg/Kg         % Rec.         % Rec.           40         119         120	ble         Spiked         MS         MSD         MS-MSD           Xg         mg/Kg         % Rec.         % Rec.         % RPD           40         119         120         0.146	ble         Spiked         MS         MSD         MS-MSD         LCS           Xg         mg/Kg         % Rec.         % Rec.         % RPD         % Rec.           40         119         120         0.146         118	ble         Spiked         MS         MSD         MS-MSD         LCS         LCSD           Xg         mg/Kg         % Rec.         % Rec.         % RPD         % Rec.         % Rec.           40         119         120         0.146         118         116	Ne         Spiked         MS         MSD         MS-MSD         LCS         LCSD         LCS-LCSD           Kg         mg/Kg         % Rec.         % Rec.         % RPD         % Rec.         % Rec.         % RPD           40         119         120         0.146         118         116         1.66	Spiked         MS         MSD         MS-MSD         LCS         LCSD         LCS-LCSD         Accession           Xg         mg/Kg         % Rec.         % Rec.         % RPD         % Rec.         % Rec.         % RPD         % Rec.         % RPD         MS / MSD           40         119         120         0.146         118         116         1.66         70 - 130	Spiked         MS         MSD         MS-MSD         LCS         LCSD         LCS-LCSD         Acceptance           Xg         mg/Kg         % Rec.         % Rec.         % RPD         % Rec.         % Rec.         % RPD         % Rec.         % Rec.         % RPD         30           40         119         120         0.146         118         116         1.66         70 - 130         30	Spiked         MS         MSD         MS-MSD         LCS         LCSD         LCS-LCSD         Acceptance Criteria (%)           Xg         mg/Kg         % Rec.         % Rec.         % RPD         % Rec.         % RPD         % Rec.         % RPD         LCS/LCSD         MS / MSD         RPD         LCS/LCSD           40         119         120         0.146         118         116         1.66         70 - 130         30         70 - 130

#### BATCH 52311 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008250-001A	08/10/10 11:48 AM	08/10/10	08/11/10 2:13 AM	1008250-002A	08/10/10 11:59 AM	08/10/10	08/11/10 3:20 AM
1008250-003A	08/10/10 12:07 PM	08/10/10	08/11/10 4:28 AM	1008250-004A	08/10/10 12:16 PM	08/10/10	08/11/10 6:42 AM
1008250-005A	08/10/10 12:25 PM	08/10/10	08/11/10 5:35 AM	1008250-006A	08/10/10 12:30 PM	08/10/10	08/11/10 9:06 AM
1008250-007A	08/10/10 12:35 PM	08/10/10	08/11/10 9:07 AM	1008250-008A	08/10/10 12:40 PM	08/10/10	08/11/10 5:35 AM
1008250-009A	08/10/10 12:55 PM	08/10/10	08/11/10 9:06 AM				

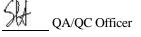
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

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

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

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

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





1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

"When Ouality Counts"

#### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil							ID: 52394	WorkOrder 1008250				
EPA Method SW8015B	Extra	Extraction SW3550B						5	Spiked Sample ID: 1008250-024A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
, indy to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	15	40	123	126	1.74	116	116	0	70 - 130	30	70 - 130	30
%SS:	93	25	80	91	12.6	101	101	0	70 - 130	30	70 - 130	30

#### BATCH 52394 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008250-010A	08/10/10 1:02 PM	08/10/10	08/11/10 10:14 AM	1008250-011A	08/10/10 1:03 PM	08/10/10	08/11/10 1:05 AM
1008250-012A	08/10/10 1:13 PM	08/10/10	08/11/10 7:50 AM	1008250-013A	08/10/10 1:15 PM	08/10/10	08/11/10 6:42 AM
1008250-014A	08/10/10 1:21 PM	08/10/10	08/11/10 1:05 AM	1008250-016A	08/10/10 11:31 AM	08/10/10	08/11/10 4:28 AM
1008250-017A	08/10/10 11:28 AM	08/10/10	08/11/10 4:44 AM	1008250-018A	08/10/10 11:24 AM	08/10/10	08/10/10 8:55 PM
1008250-019A	08/10/10 11:21 AM	08/10/10	08/10/10 10:02 PM	1008250-020A	08/10/10 11:17 AM	08/10/10	08/10/10 11:10 PM
1008250-021A	08/10/10 11:11 AM	08/10/10	08/11/10 12:17 AM				

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

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

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

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

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

QA/QC Officer



"When Ouality Counts"

#### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water			QC Matri	x: Water			Batch	ID: 52273		WorkC	Order 10082	50
EPA Method SW8015B	Extra	Extraction SW3510C Spiked Sample ID: N/A										
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	)
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
ГРН-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	108	107	0.942	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	93	94	1.07	N/A	N/A	70 - 130	30
× /	N/A	625	N/A	N/A	N/A	93	94	1.07	N/A			

#### BATCH 52273 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008250-015A	08/10/10 1:30 PM	A 08/10/10	08/11/10 3:37 AM				

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

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

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

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

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

QA/QC Officer

McCampbell A		Web: www.mccampbell.	Road, Pittsburg, CA 945 com E-mail: main@mc 52-9262 Fax: 925-25	ccampbell.com
Conestoga-Rovers & Associates	Client Project ID: #311973;	9-0121; 3026 Lakeshore	Date Sampled:	08/10/10
5900 Hollis St, Suite A	Ave, Oakland		Date Received:	08/10/10
5500 Hollis St, Suite A	Client Contact: Dan Glaze	2	Date Reported:	08/11/10
Emeryville, CA 94608	Client P.O.:		Date Completed:	08/11/10

#### WorkOrder: 1008250 A

August 11, 2010

Dear Dan:

Enclosed within are:

- 1) The results of the 3 analyzed samples from your project: #311973; 9-0121; 3026 Lakeshore Ave, Oakland,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

		1534 WI	LANA	SS RC	DAD	AL,	, IP	NC	•					Т	UR	N.	AR		CH						1	3	2	5	Ç		RE	Q.	
	ebsite: <u>www.m</u> elephone: (877	ccampbe ) 252-92	ell.com Ei 262	mail: r		mcca : (925				,				G	eol	Fra	ick	er I	EDF	r Ç	3	PD		RU			HR		48 I Wri		72 <b>On (</b>	HR DV	5 DAY
D	C1										_		_							5		Ch	eck	if s						nd ",	J" fla	ng is	required
Report To: DA			1	Bill T	0: (or	instran o	jen-	Ro	20	8 AS	Soc	Sicher	4						A	nal	ysis	Rec	ques	st	_	_	_	_	_	0	ther	-	Comments
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Emery ville, C	1			E-Ma	il: À	1020	-@	2.00		h.	CAY	20	-	Ĩ		B&F)					cener												nere if the
Tele: (510 ) L				Fax: (	-	-								I		0 E/I					Cong						6			lysis	8015	8	amples a potentiall
Project #: 30	173		J	Projec	et Na	me:										/ 552	-	(8)	(12		0rs/		n			-	3	602(		s ana	00		langerou
Project Location	: 3026 Late	sher	ave, a	sakb	sh.	(4)								Ŧ		1664	(418.	VOC	2 / 80	es)	Inocl		icide			NAS	010	010/		netal	T	1	andle:
Sampler Signatu	re: De D.	h												8021		ase ()	SHOO	H) []	A 602	ticid	N; A	des)	Herb	(3)	C(s)	Is / P	8/6	8/6	5020)	ED n	-6	14.40	
	0	SAM	PLING		rs	N	1A7	RI	x			HOL		- (CO3)	6	l & Gree	drocart	010/802	LY (EP)	(CI Pes	B's ONL	P Pestici	idic CI I	0A) 093	70 (SVC	10 (PAE	0.7 / 200	.7/200	/ 0109/	SSOLV	LAGT	3	
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soll	All Sludae	Other	ICE	HCL	HNO <sub>3</sub>	Other	BTEX & WHI IN C	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 (6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	TPHS was If	ZWD STLL	
55 - 3	4	SA	12:41	4			4			×			+	х													×				X	×	
53-2		8/10	12:32	4			(			×				×													X				×	×	
55-11		8/10	12:24	27			×			~			1	x													x				X	x	
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**MAI clients MUST gloved, open air, sam allowing us to work s	ple handling by f	igerous ch MAI staff.	nemicals kn Non-discle	iown to osure i	) be pro	esent i an imn	n the	eir st ate \$2	ibmi 250 s	tted s urch:	amp arge	ples i e and	n co I the	oncei clie	ntrati nt is :	ions subj	that ect to	may o full	caus lega	e imi I liat	medi bility	ate h for l	arm harn	or son	eriou fered	s fut I. Th	ure h ank	iealti you f	h end for y	lange our u	rmen inders	t as a stand	result of t ing and fo
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1534 Willow Pass Rd

## CHAIN-OF-CUSTODY RECORD

Page 1 of 1

	rg, CA 94565-1701 52-9262				W	orkOre	ler: 10082	250 A	Cl	ientCode: (	ETE				
		WaterTi	rax 🗌 Write	eOn EDF		Excel	Fax		✓ Email	Hard	Сору	Thir	dParty	□J-i	flag
Report to:						Bi	II to:				Req	uested	TAT:		1 day
Dan Glaze Conestoga- 5900 Hollis Emeryville, ( (510) 420-070	CA 94608	Email: cc: PO: ProjectNo:	dglaze@CRA #311973; 9-0 Oakland	Aworld.com 0121; 3026 Lakesh	nore Ave	),	Accounts Conestor 5900 Ho Emeryvil	ga-Rove Ilis St, St	rs & Asso e. A	ociates	Dat	e Rece e Add- e Prin	On:	08/11	)/2010 /2010 /2010
								Req	uested Te	ests (See leg	jend b	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2 3	4	5	6 7	8	9	10	11	12
4000050.000	00.0		0.1	0/10/0010 10 11	тыт	•			<u>г г</u>				T		r

1008250-022	SS-3	Soil	8/10/2010 12:41	А	А	А					
1008250-023	SS-2	Soil	8/10/2010 12:32	А	А	А					
1008250-024	SS-1	Soil	8/10/2010 12:24	А	А	А					

#### Test Legend:

1	CAM17MS_S
6	
11	

2	G-MBTEX_S	
7		
12		

3	TPH(D)_S
8	

4
9
9

5	
10	

Prepared by: Ana Venegas

#### **Comments:** 24hr rush. "SS" samples were separated from other samples and moved to "WO#1008250 A" per client request 08/11/10.

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

When Ouality				bell.com E-mail: maii 877-252-9262 Fax: 92	n@mccampbell.c 5-252-9269	com			
Conestoga-Rovers & Associates	Client Pro	oject ID: #311973	3; 9-0121; 3026	Date Sampled: 08/10/10					
	Lakeshor	e Ave, Oakland		Date Received:	08/10/10				
5900 Hollis St, Suite A	Cliant Ca	interet. Den Class							
		ontact: Dan Glaze		Date Extracted:					
Emeryville, CA 94608	Client P.C	).:		Date Analyzed	08/11/10				
	С	AM / CCR 17 Me	tals*						
Lab ID	1008250-022A	1008250-023A	1008250-024A		Reporting Lin	mit for DE -			
Client ID	SS-3	SS-2	SS-1		ND means	not detected			
Matrix	S	S	S		S	W			
Extraction Type	TOTAL	TOTAL	TOTAL		mg/Kg	mg/L			
	ICD	Metals, Concent	ration*		0.0	5			
Analytical Method: SW6020		action Method: SW30			Work Order:	1008250			
Dilution Factor	1	1	1		1	1			
Antimony	0.86	ND	0.74		0.5	NA			
Arsenic	4.2	2.7	3.5		0.5	NA			
Barium	2500	78	150		5.0	NA			
Beryllium	ND	ND	ND		0.5	NA			
Cadmium	0.34	ND	ND		0.25	NA			
Chromium	45	42	38		0.5	NA			
Cobalt	11	7.2	8.3		0.5	NA			
Copper	23	17	17		0.5	NA			
Lead	23	6.0	27		0.5	NA			
Mercury	ND	ND	ND		0.05	NA			
Molybdenum	ND	ND	ND		0.5	NA			
Nickel	68	41	39		0.5	NA			
Selenium	ND	ND	ND		0.5	NA			
Silver	ND	ND	ND		0.5	NA			
Thallium	ND	ND	ND		0.5	NA			
Vanadium	58	22	41		0.5	NA			
Zinc	140	67	110		5.0	NA			
%SS:	110	110	127						
Comments									

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

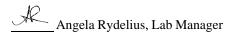
TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of  $0.45 \ \mu m$  filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



	McCampbo	<u>nc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269									
Conest	oga-Rovers & Asso	ciates		•	#311973; 9-0121; 3026 Date Sampled: 08/10/10							
5900 Hollis St, Suite A				ore Ave, Oa	kland	Date Receive	ed: 08/10	0/10				
Client Contact: D					n Glaze		Date Extracto	ed: 08/10	0/10			
Emeryv	ville, CA 94608		Client I	P.O.:			Date Analyzed: 08/11/10					
	G	asoline Ra	ange (C6-C12)	) Volatile Hy	drocarbons	as Gasoline	e with BTEX a	nd MTBE <sup>:</sup>	*			
Extraction	n method: SW5030B			Analy	tical methods:	SW8021B/8015	5Bm		Wor	rk Order:	1008250	
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comment	
022A	SS-3	S	8.3		ND	0.023	ND	0.014	1	96	d7,d9	
023A	SS-2	S	ND		ND	ND	ND	ND	1	110		
024A	SS-1	S	6.1		ND	ND	ND	0.047	1	106	d7,d9	
									<u> </u>			
-	ing Limit for $DF = 1$ ;	W	50	5.0	0.5	0.5	0.5	0.5		ug/I		
	ans not detected at or e the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg			

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

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

Angela Rydelius, Lab Manager

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram d9) no recognizable pattern

DHS ELAP Certification 1644

<u> </u>	Campbell Anal "When Ouality Cour		Web: www.mccamp	Pass Road, Pitts bell.com E-1 877-252-9262	mail: main		bell.com			
Conestoga-Rov	vers & Associates	Client Project ID:	Client Project ID: #311973; 9-0121; 3026 Lakeshore Ave, Oakland			Date Sampled: 08/10/10				
5900 Hollis St, S	Suite A		Client Contact: Dan Glaze				0			
		Client Contact: D					0			
Emeryville, CA	94608	Client P.O.:		Date Ana	lyzed	08/10/1	0-08/11/10			
Extraction method S	W3550B	Total Extractable Pet Analytical	roleum Hydrocarbons* methods: SW8015B			Work Orde	er: 1008250			
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)		DF	% SS	Comments			
1008250-022A	<b>SS-3</b>	S	29	1	93	e7,e2				
008250-023A	SS-2	S	28		1	101	e1			
008250-024A SS-1		S	15		1	93	e7,e2			
-	ing Limit for DF =1; ans not detected at or	W	NA			N				
	e the reporting limit	S	1.0			mg	/Kg			

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

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

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

e1) unmodified or weakly modified diesel is significant

e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant





"When Ouality Counts"

### QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 1008250

EPA Method SW6020			Extract	ion SW3	3050B		BatchID	: 52393	Spik	ed Sample	ID:	1008250-02	4A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acc	eptanc	e Criteria (%	5)
, and y to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RP
Antimony	0.74	50	97	97.5	0.507	10	106	103	3.26	75 - 125	20	75 - 125	20
Arsenic	3.5	50	97.3	96.4	0.886	10	117	108	8.09	75 - 125	20	75 - 125	20
Barium	150	500	95.8	97.3	1.21	100	104	99.6	3.99	75 - 125	20	75 - 125	20
Beryllium	ND	50	95.3	95	0.334	10	106	102	3.75	75 - 125	20	75 - 125	20
Cadmium	ND	50	97.8	98.6	0.811	10	109	105	3.47	75 - 125	20	75 - 125	20
Chromium	38	50	76.4	83.8	4.72	10	113	107	5.93	75 - 125	20	75 - 125	20
Cobalt	8.3	50	92	92.5	0.422	10	106	102	3.94	75 - 125	20	75 - 125	20
Copper	17	50	110	111	0.530	10	117	108	7.37	75 - 125	20	75 - 125	20
Lead	27	50	88.3	89.4	0.798	10	107	103	3.80	75 - 125	20	75 - 125	20
Mercury	ND	1.25	98.1	99.2	1.01	0.25	105	102	2.50	75 - 125	20	75 - 125	20
Molybdenum	ND	50	96.4	97.3	0.922	10	105	101	4.28	75 - 125	20	75 - 125	20
Nickel	39	50	83.5	84.1	0.397	10	116	107	7.92	75 - 125	20	75 - 125	20
Selenium	ND	50	102	99.8	1.72	10	103	110	15.6	75 - 125	20	75 - 125	20
Silver	ND	50	96.7	97.2	0.495	10	105	102	2.71	75 - 125	20	75 - 125	20
Thallium	ND	50	96.2	97.1	0.973	10	109	106	3.26	75 - 125	20	75 - 125	20
Vanadium	41	50	77.9	78	0.0626	10	112	104	7.40	75 - 125	20	75 - 125	20
Zinc	110	500	94	94.5	0.448	100	121	112	7.92	75 - 125	20	75 - 125	20
%SS:	127	250	105	107	1.77	250	115	111	4.21	70 - 130	20	70 - 130	20

#### BATCH 52393 SUMMARY

Lab ID	Date Sampled Date Extracted		Date Analyzed	Lab ID	Date Sampled	Date Extracted	d Date Analyzed
1008250-022A	08/10/10 12:41 PM	08/10/10	08/11/10 2:57 PM	1008250-022A	08/10/10 12:41 PM	08/10/10	08/11/10 3:50 PM
1008250-023A	08/10/10 12:32 PM	08/10/10	08/11/10 3:06 PM	1008250-024A	08/10/10 12:24 PM	08/10/10	08/11/10 4:32 PM

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

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

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

N/A = not applicable to this method.

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



"When Ouality Counts"

### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil		(	QC Matrix	k: Soil			Batch	ID: 52335		WorkOrder 1008250			
EPA Method SW8021B/8015Bm	Extrac	ction SW	5030B					5	nple ID	ID: 1008157-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	e Criteria (%)		
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
TPH(btex)	ND	0.60	101	115	12.3	107	97.3	9.36	70 - 130	20	70 - 130	20	
MTBE	ND	0.10	116	110	5.29	104	97.4	7.00	70 - 130	20	70 - 130	20	
Benzene	ND	0.10	102	96.8	5.19	93	99.2	6.46	70 - 130	20	70 - 130	20	
Toluene	ND	0.10	100	96.1	4.23	92.4	96.9	4.77	70 - 130	20	70 - 130	20	
Ethylbenzene	ND	0.10	100	96.6	3.82	92.7	97	4.54	70 - 130	20	70 - 130	20	
Xylenes	ND	0.30	99.4	95.7	3.80	91.3	95.6	4.66	70 - 130	20	70 - 130	20	
%SS:	77	0.10	85	82	3.47	81	85	5.21	70 - 130	20	70 - 130	20	
All target compounds in the Method B NONE	All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:												

#### BATCH 52335 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008250-022A	08/10/10 12:41 PM	08/10/10	08/11/10 9:41 AM	1008250-023A	08/10/10 12:32 PM	08/10/10	08/11/10 9:13 AM
1008250-024A	08/10/10 12:24 PM	08/10/10	08/11/10 9:42 AM				

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

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

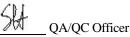
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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





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#### "When Ouality Counts"

#### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil		(	QC Matri	k: Soil			BatchID: 52394 WorkOrder 100			Order 10082	50	
EPA Method SW8015B	Extra	ction SW	3550B					Spiked Sample ID: 1008250-024				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD LCS-LCSD Acceptance				Criteria (%)	
, indigite	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	15	40	123	126	1.74	116	116	0	70 - 130	30	70 - 130	30
%SS:	93	25	80	91	12.6	101	101	0	70 - 130	30	70 - 130	30
All target compounds in the Meth- NONE								e following				

#### BATCH 52394 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008250-022A	08/10/10 12:41 PM	08/10/10	08/10/10 10:40 PM	1008250-023A	08/10/10 12:32 PM	08/10/10	08/10/10 9:32 PM
1008250-024A	08/10/10 12:24 PM	08/10/10	08/11/10 4:20 AM				

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

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

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

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

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

A QA/QC Officer