Aaron Costa
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6111 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 543-2961
Fax (925) 543-2324
acosta@chevron.com

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station 9-0290
1802 Webster Street
Alameda, California

I have reviewed the attached report dated October 19, 2010.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Thomas K. Bauhs
Project Manager

Attachment: Report

CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: October 19, 2010

REFERENCE NO.: 311594

PROJECT NAME: Chevron 9-0290

ACEHS RO#195

TO: Mr. Robert Weston
Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

Sent via:
- ☐ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☒ Other ..ftp upload, GeoTracker Upload

QUANTITY	DESCRIPTION
1	Used Oil Underground Storage Tank Removal and Groundwater Sampling Report

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐ For Review and Signature
- ☐

COMMENTS:
Please contact Nathan Lee at (510) 420-3333 if you have any questions or require additional information.

Copy to: Mr. Timothy J. Dahl, Chevron
Mr. Dave Patten, Chevron

Completed by: Nathan Lee [Please Print]

Signed: Nathan Lee

Filing: **Correspondence File**

USED OIL UNDERGROUND STORAGE TANK REMOVAL AND GROUNDWATER SAMPLING REPORT

Chevron Service Station 9-0290
1802 Webster Street
Alameda, California

Prepared for:

Mr. Robert Weston
Senior Hazardous Materials Specialist
Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Prepared by:
Conestoga-Rovers & Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: http:\\www.CRAworld.com

OCTOBER 22, 2010
REF. NO. 311594 (8)
This report is printed on recycled paper

USED OIL UNDERGROUND STORAGE TANK REMOVAL AND GROUNDWATER SAMPLING REPORT

Chevron Service Station 9-0290
1802 Webster Street
Alameda, California

David Grunat

Nathan Lee, PG 8486

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) is submitting this *Used Oil Underground Storage Tank Removal and Groundwater Sampling Report* on behalf of Chevron Products Company (Chevron) for the Chevron Service Station located at 1802 Webster Street in Alameda, California (Figure 1). This site is an active ACEH Fuel Leak Case (RO 0143). On September 21, 2010, CRA observed the removal of one 1,000-gallon double-walled fiberglass used oil underground storage tank (UST) and associated piping. Site background information, a description of sampling activities, and analytical results are discussed below.

1.1 SITE DESCRIPTION

The site is currently an active Chevron station located at the northeast corner of Webster Street (State Highway 61) and Buena Vista Avenue in Alameda, California (Figure 1). A 76 service station (former BP and open Alameda County Environmental Health (ACEH) fuel leak case RO0000281) is located upgradient, across Buena Vista Avenue to the south. Land use in the area is mixed commercial and residential.

Chevron purchased the property in 1925 and has operated a service station onsite since at least the late 1940s. Chevron purchased two additional parcels in 1964 and leased the additional parcels in 1969. The service station was remodeled into its current configuration in 1969 and currently operates four 10,000-gallon gasoline USTs and four fuel dispenser islands under a common canopy (Figure 2). A summary of previous investigation and remediation is included in Appendix A.

1.2 SITE GEOLOGY AND HYDROGEOLOGY

Site Geology

Soil encountered beneath the site consists primarily of dune sands and silty sands of Holocene and Pleistocene age to the total depth explored of 20 feet below grade (fbg).

Hydrogeology

The site is located on the island of Alameda, in the East Bay Plain Sub-basin of the Santa Clara Valley Groundwater Basin. The Oakland Inner Harbor is approximately 0.75 miles to the north and the San Francisco Bay is approximately 1.5 miles to the south of the site. The nearest surface water body is Oakland-Alameda Estuary, approximately 0.25 miles north of the site. Site elevation is approximately 10 to 13 feet above mean sea

level and the topography slopes gently to the north. Groundwater monitoring has been conducted at the site since 1991. Average historical depth to groundwater ranges from 4 to 6 fbg and flows north-northwest at a gradient of 0.003 to 0.01.

2.0 UNDERGROUND STORAGE TANK REMOVAL AND COMPLIANCE SAMPLING

On September 21, 2010, CRA observed and documented the removal of the used oil UST and associated piping. Under the direction of ACEH, one grab-groundwater sample was collected from within the UST pit. No soil samples were collected from the UST pit or pea gravel stockpile due to native soil being encountered and no visual signs of hydrocarbons. A site plan illustrating the grab-groundwater sample location is presented on Figure 2.

Personnel

Gettler-Ryan Inc. of Dublin, California completed UST preparation and removal activities. CRA personnel David Grunat, under the supervision of California Professional Geologist Nathan Lee, PG 8486, observed the UST removal and performed compliance groundwater sampling. City of Alameda Fire Inspector Ken Jeffery and ACEH representative Robert Weston observed the UST removal and directed compliance groundwater sampling. Ecology Control Industries (ECI) transported the inert fuel system components, including the USTs and piping, for proper disposal.

UST Removal

The UST was rendered inert using 40 pounds of dry ice and removed under ACEH permit SR0017696 (Appendix B). No visual holes, cracks, or staining were noted on the UST or piping.

Compliance Sampling

Grab-groundwater sample WOT-1 was collected from within the UST pit. The sample was collected utilizing a disposable bailer, decanted into clean laboratory-approved containers, properly sealed, and labeled. The sample was 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 in Appendix C.

Chemical Analysis

The sample was analyzed for the following constituents:

- Total recoverable petroleum hydrocarbons (TRPH) with silica gel cleanup by Environmental Protection Agency (EPA) method E418.1
- Total petroleum hydrocarbons as diesel (TPHd) and total petroleum hydrocarbons as gasoline (TPHg) by EPA method 8015Bm
- Benzene, toluene, ethylbenzene, xylenes (BETX), and methyl tertiary butyl ether (MTBE) by EPA method 8021B
- Volatile organic compounds, including BTEX and MTBE by EPA method 8260B
- Polychlorinated biphenyls (PCBs) by EPA Method SW8082
- Semi-volatile organic compound, including pentachlorophenol (PCP), poly nucleated aromatics (PNAs), and creosote by EPA method 8270
- Cadmium (Cd), chromium (Cr), lead (Pb), nickel (Ni), and zinc (Zn) by EPA method E200.8

Waste Disposal

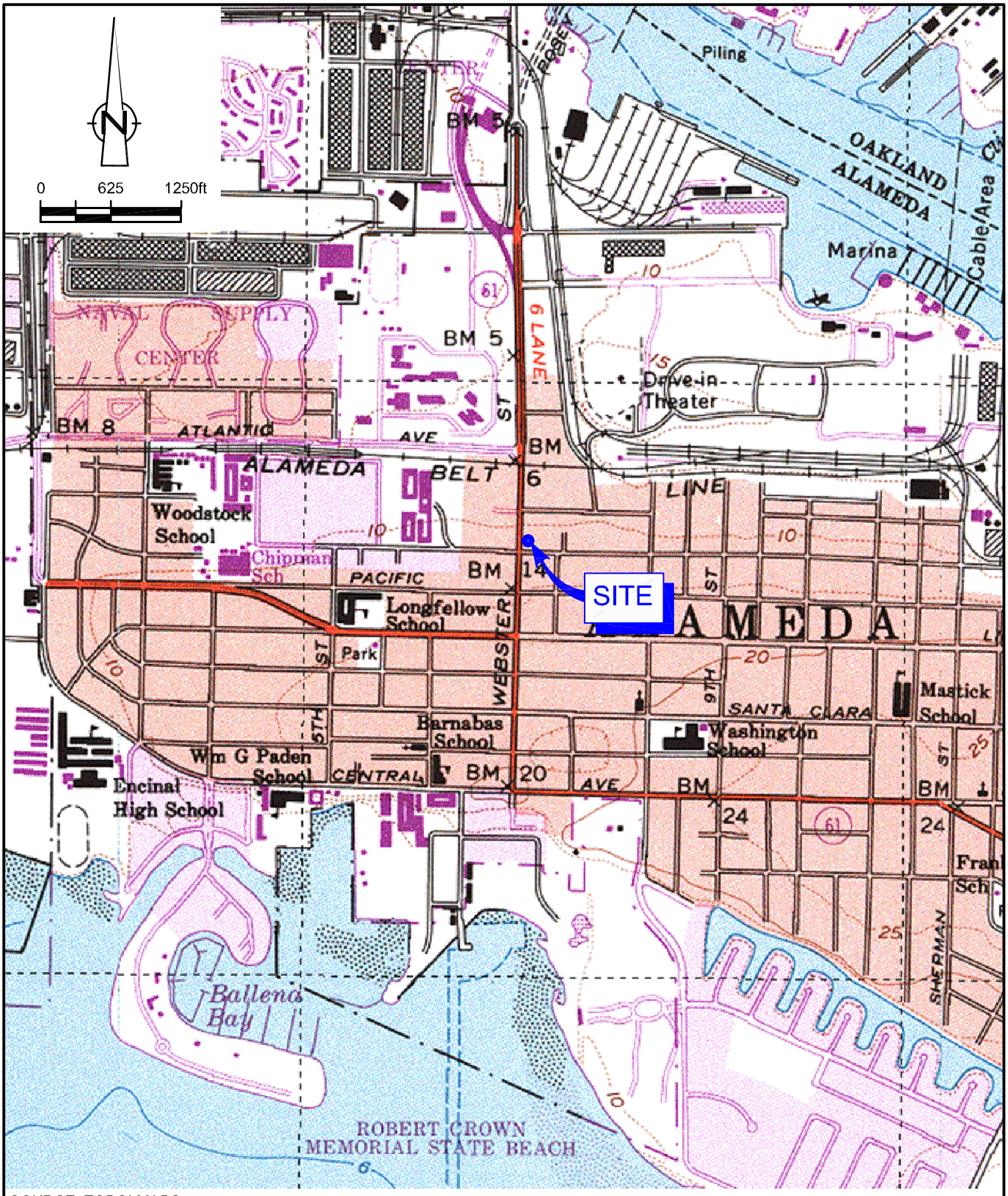
All fuel system components (piping, tank and rinsate) were shipped under manifest to ECI of Richmond, California facility. Copies of the disposal manifest are included in Appendix D.

Pea gravel removed from the UST pit was temporarily stockpiled onsite. After the UST was removed the pea gravel was placed back into the UST excavation with ACEH approval.

3.0 GROUNDWATER ANALYTICAL RESULTS

No hydrocarbons or other organic compounds were detected in the grab-groundwater sample collected from within the UST pit (Table 1). The groundwater sample for the metals analysis was accidently not filtered prior to preservation with acid; therefore, the results are reflective of total metal concentrations, not dissolved concentrations. The metals detected in groundwater were 0.63 micrograms per liter (µg/L) cadmium, 140 µg/L chromium, 61 µg/L lead, 230 µg/L nickel and 250 µg/L zinc (Table 2). Based on the lack of hydrocarbons detected in the UST pit, these metal concentrations are related to background concentrations and not related to Chevron's operations. The groundwater laboratory analytical report is included in Appendix E.

FIGURES



SOURCE: TOPO! MAPS.

Figure 1

VICINITY MAP
CHEVRON SERVICE STATION 9-0290
1802 WEBSTER STREET
Alameda, California

311594-2010MK(008)GN-WA002 SEP 22/2010

EAGLE STREET

AUTO REPAIR SHOP

PARKING LOT

COMMERCIAL BUILDING

B-15

WEBSTER STREET

0°

270°

90°

180°

Historic Groundwater Flow Direction
1999 through 2010

B-7

PARKING LOT

FRED'S WRENCHOUSE

LIQUOR STORE

RESIDENTIAL BUILDING

N

0 20 40ft

B-14

PARKING

B-10

B-5

B-4

B-9

B-11

DISPENSER ISLANDS

B-12

APARTMENT COMPLEX PARKING LOT

B-2

B-3

STATION BUILDING

B-1

LIMIT OF EXCAVATION

B-13

USTS

A-1

WOT-1

RESIDENTIAL BUILDING

B-8

FORMER FIRST GENERATION USED OIL USTs

FORMER SECOND GENERATION USED OIL UST

B-6

BUENA VISTA AVENUE

PARKING LOT

KFC RESTAURANT

FORMER BP # 11104

76 STATION BUILDING

LEGEND

B-1 ● MONITORING WELL LOCATION

B-4 ⊗ DESTROYED WELL LOCATION

WOT-1 ⊕ WATER SAMPLE LOCATION

Figure 2

SITE PLAN WITH COMPLIANCE SAMPLE LOCATION
CHEVRON SERVICE STATION 9-0290
1802 WEBSTER STREET
Alameda, California

BASEMAP MODIFIED FROM DRAWING PROVIDED BY GETTLER RYAN INC.

311594-2010MK(008)GN-WA001 SEP 22/2010

TABLES

TABLE 1
GRAB-GROUNDWATER ANALYTICAL DATA, HYDROCARBONS
CHEVRON SERVICE STATION 9-0290
1802 WEBSTER STREET, ALAMEDA, CALIFORNIA

Sample ID	*Date*	*TRPH*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*HVOCs*	*Total PCBs*	*1,4-Dioxane*	*SVOCs*
		Reported in micrograms per liter (µg/L)																	
ESLs - Groundwater	*--*	100	100	100	1	40	30	20	5	12	NE	NE	NE	0.5	0.05	NE	NE	3	NE
WOT-1	09/21/10	<1,000	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<2	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<2.0	ND

Notes:

Total Recoverable Hydrocarbons (TRPH) by EPA Method E418.1 with Silica Gel Clean-Up
Total petroleum hydrocarbons as diesel (TPHd) analyzed by EPA Method 8015B with silica gel cleanup
Total petroleum hydrocarbons as gasoline (TPHg) analyzed by EPA Method 8015B modified.
Benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary-butyl ether (MTBE); t-butyl alcohol (TBA); di-isopropyl ether (DIPE); ethyl tertiary-butyl ether (ETBE); t-amyl methyl ether (TAME); 1,2-dichloroethane (1,2-DCA); 1,2-dibromoethane (EDB)
Halogenated Volatile Organics (HVOCs) by EPA Method 8260B
Poly-Chlorinated Biphenyls (PCBs) by EPA Method 8082
1,4-Dioxane by EPA Method 8260B
Semi-Volatile Organics (SVOCs) by EPA Method 8270
ESLs - Groundwater = Environmental Screening Levels for groundwater that is a current or potential source of drinking water (Table F-1a) from *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater* prepared by the California Regional Water Quality Control Board
<x = Not detected at reporting lii
ND = No constituents detected above laboratory detection limit.
NE = Not Established/Not Applicable

TABLE 2
GRAB-GROUNDWATER ANALYTICAL DATA, METALS
CHEVRON SERVICE STATION 9-0290
1802 WEBSTER STREET, ALAMEDA, CALIFORNIA

Sample ID	*Date*	*Cd*	*Cr*	*Pb*	*Ni*	*Zn*
		Reported in micrograms per liter (µg/L)				
WOT-1	9/21/2010	**0.63**	**140**	**61**	**230**	**250**

Notes:

LUFT 5 Metals (Cadmium (Cd), Chromium (Cr), Lead (Pb), Nickel (Ni), and Zinc (Zn)) by EPA Method 200.8

APPENDIX A

PREVIOUS ENVIRONMENTAL INVESTIGATION AND REMEDIATION

PREVIOUS ENVIRONMENTAL INVESTIGATION AND REMEDIATION

1982 Monitoring Well Installation: In January 1982, IT Enviroscience (ITE) installed onsite groundwater monitoring wells B-1 through B-6 to assess the extent of hydrocarbons resulting from a release of approximately 50 gallons of gasoline. Additional information is available in ITE's February 8, 1982 *Progress Report #1*.

1982 UST Replacement and Backfill Wells: In early 1982, the gasoline underground storage tanks (USTs) were removed and replaced. A gauge stick hole was observed in the bottom of the Regular gasoline UST during removal. A new diesel UST and used-oil UST were installed in the same tank pit. Backfill wells A-1 and A-2 were installed with the new USTs. Groundwater monitoring well B-2 was destroyed to accommodate the new USTs. Additional information is available in Gettler-Ryan's (G-R's) *Well Installation Report* dated December 29, 1995.

1991 Diesel Spill: On September 19, 1991 approximately 1,400 gallons of diesel were accidentally pumped into tank backfill well A-1 during UST testing activities. Approximately 1,600 gallons of light non-aqueous phase liquids (LNAPL) were removed from well A-1 immediately after the release. A NAPL recovery program removed an additional 346 gallons from September 1991 through July 1992. Laboratory analysis of the LNAPL suggested that used oil must also have been inadvertently disposed of in well A-1. A groundwater sampling program was initiated in September 1991. Additional information is available in GTI's *Additional Environmental Assessment Report* dated May 26, 1993.

1992 Monitoring Well Installation: On July 8, 1992 Hydro Environmental Technologies, Inc. (Hydro) installed monitoring wells MW-1, MW-2 and MW-3. Additional information is available in Hydro's *Phase I Report* dated August 21, 1992.

1993 Monitoring Wells: In March 1993, Groundwater Technology, Inc. installed monitoring wells B-7 through B-9. Additional information is available in GTI's *Additional Environmental Assessment Report* dated May 26, 1993.

1994 Used-Oil UST and Product Piping Removal: In April and May 1994 Touchstone Development removed one 1,000-gallon single-walled fiberglass used-oil UST, one 350-gallon steel used-oil UST, and associated product piping. Approximately 1,500 gallons of water were pumped from the 1,000-gallon UST pit and disposed of offsite. A total of approximately 700 cubic yards of soil was excavated from the used-oil tank pits and from beneath the product lines. Monitoring wells A-2, B-3, and B-4 were destroyed during UST removals. Additional

information is available in Touchstone's *UST Removal, Product Line Replacement and Sampling Report* dated July 21, 1994 and in Pacific Environmental Group's *Well Destruction* dated July 27, 1994.

1995 Monitoring Well Installation: In October 1995, G-R installed monitoring wells B-10 through B-13. Additional information is available in G-R's *Well Installation Report* dated December 29, 1995.

2000 Site Conceptual Model: Delta Environmental Consultants (Delta) concluded that hydrocarbon impacted soil appears to be present within the smear zone between 2 and 8 fbg. The dissolved hydrocarbon plume has been decreasing with the exception of upgradient well B-6. An upgradient source may be a potential secondary source of hydrocarbon impact beneath the southern portion of the Chevron site. Intrinsic bioremediation appears to be occurring in groundwater beneath the site, facilitating decreases in hydrocarbon concentrations and limiting hydrocarbon migration. Additional information is available in Delta's *Site Conceptual Model* dated October 24, 2000.

2001 Soil Borings and Well Survey: In May 2001, G-R advanced borings SB-1 and SB-2 were advanced onsite and borings SB-4, SB-6, and SB-8 offsite. Three irrigation wells are located within a ½-mile radius of the site; two are located 1,400 feet west of the site and one is located 2,800 feet southwest of the site. The irrigation wells are located either crossgradient or downgradient of the site. Additional information is available in Delta's *Limited Subsurface Investigation Report* dated August 6, 2001.

2002 Monitoring Well Installation: In August 2002, Delta installed monitoring wells B-14 and B-15 and advanced soil boring SB-12. Additional information is available in Delta's *Monitoring Well Installation Report* dated December 13, 2002.

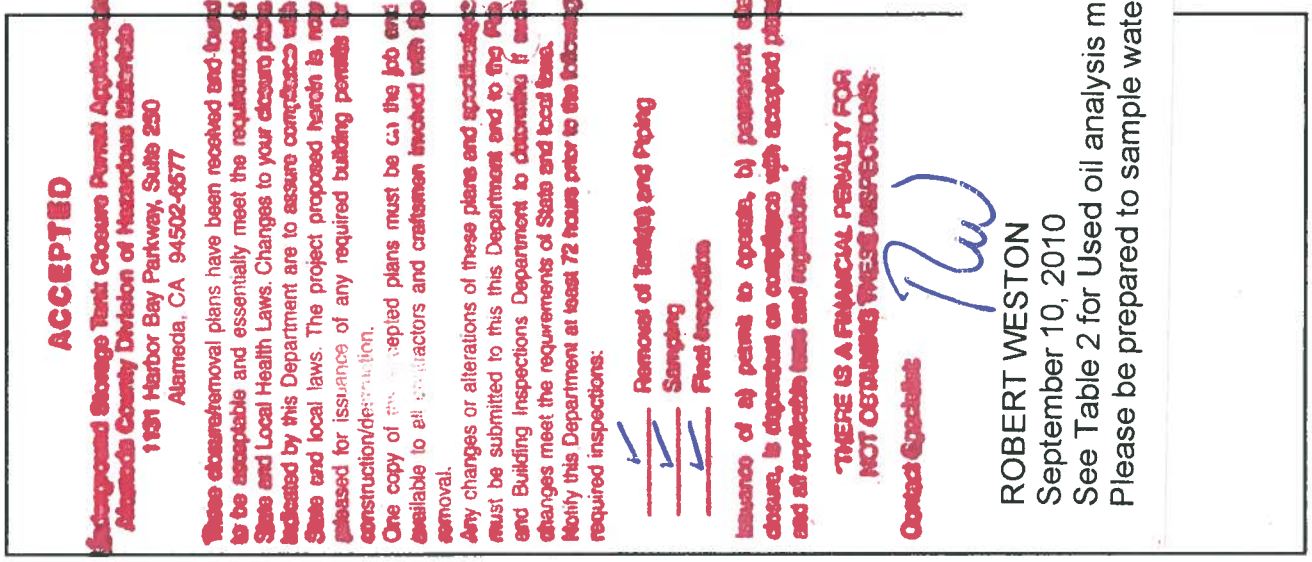
2005 Soil Borings: In December 2005, Cambria Environmental Technology, Inc. (Cambria), now Conestoga-Rovers & Associates (CRA), advanced soil borings SB-15 through SB-18 and collected a grab-groundwater sample from the bottom of a nearby electrical utility vault. Additional information is available in CRA's *Down-gradient Hydrocarbon Plume Investigation Report* dated April 17, 2007.

APPENDIX B

UST REMOVAL PERMIT

10-05871.1

ALAMEDA COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALT
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502-6577
PHONE (510) 567-6700



ROBERT WESTON
September 10, 2010
See Table 2 for Used oil analysis methods
Please be prepared to sample water

UNDERGROUND STORAGE TANK CLOSURE PLAN

*** * * Complete closure plan according to instructions * * ***

1. Name of Business CHEVRON 9-0290
   Business Owner or Contact Person (PRINT) TIM DAHL
2. Site Address 1802 WEBSTER STREET
   City, State ALAMEDA, CA. Zip 94501 Phone
3. Mailing Address
   City, State Zip Phone
4. Property Owner CHEVRON USA INC.
   Business Name (if applicable) CHEVRON PRODUCTS COMPANY
   Address 6001 BOLLINGER CANYON RD.
   City, State SAN RAMON, CA. Zip 94583 Phone 925.842.3075
5. Generator name under which tank will be manifested
   CHEVRON PRODUCTS COMPANY
   EPA I.D. No. under which tank(s) will be manifested CAR0011 6509
6. Contractor GETTLER RYAN INC.
   Address 6747 SIERRA COURT SUITE J

City, State DUBLIN, CA. Zip 94568 Phone 925.551.7555

License Type GENERAL CONTRACTOR ID# 220793

7. Consultant (if applicable) CRA

Address 5900 HOLLIS ST. STE A

City, State EMERYVILLE Zip 94608 Phone 510.420.6700

8. Main Contact Person for Investigation (if applicable)

Name TIM DAHL Title PROJECT MANAGER

Company CHEVRON PRODUCTS COMPANY

Phone 925.842.3075

9. Number of underground tanks being closed with this plan ONE 1,000 GAL. W/O

Length of piping being removed under this plan 0

Total number underground tanks at this facility (confirmed with owner or operator) 4

10. State Registered Hazardous Waste Transporters/Facilities (See Instructions).

a) Product/Residual Sludge/Rinsate Transporter

Name EVERGREEN OIL EPA I.D. No. CAD980887418

Hauler License No. _____ License Exp. Date _____

Address 6880 SMITH AVE.

City, State NEWARK, CA. Zip 94801

b) Product/Residual Sludge/Rinsate Disposal Site

Name EVERGREEN OIL EPA I.D. No. CAD980887418

Address 6880 SMITH AVE

City, State NEWARK CA. Zip 94801

c) Tank and Piping Transporter

Name ECI EPA I.D. No. CAD982030173

Hauler License No. _____ License Exp. Date _____

Address 255 PARR BLVD.

City, State RICHMOND, CA. Zip _____

d) Tank and Piping Disposal Site

Name ECI EPA I.D. No. CAD009466392

Address 255 PARR BLVD.

City, State RICHMOND, CA. Zip _____

11. Sample Collector

Name NATHAN LEE

Company CONESTOGA - ROVERS & ASSOC., INC.

Address 5900 HOLLIS ST. SUITE A

City, State EMERYVILLE, CA. Zip 94608 Phone 510.420.0700

12. Laboratory

Name MC CAMBELL ANALYTICAL, INC

Address 1534 WILLOW PASS ROAD

City, State PITTSBURG, CA Zip 94565-1701

State Certification No. 1644

13. Have tank(s) or piping leaked in the past? Yes [ ] No [X] Unknown [ ]

If yes, describe: _____

14. Describe method(s) to be used for rendering tank(s) inert:

PLACE 50 LBS. ICE TO INERT TANK.

Before tank(s) are pumped out and inerted, all associated piping must be flushed back into the tank(s). All accessible piping must then be removed. Inaccessible piping must be permanently plugged using grout.

The Bay Area Air Quality Management District, (415) 771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. **It is the contractor's responsibility to have a functional combustible gas indicator on-site to verify that the tank(s) is inerted.**

15. Tank History and Sampling Information (See Instructions)

Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Sample(s)
Capacity (gallons)	Use History include date last used (estimated)		
1,000	WASTE OIL	PEA GRAVEL AND/OR SOIL	BELOW TANK FILL & SIDEWALK

One soil sample must be collected for every 20 linear feet of underground piping that is removed. A groundwater sample must be collected if any groundwater is present in the excavation.

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (estimated) 16 YRDS (ESTIMATED)	Sampling Plan

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

Will the excavated soil be returned to the excavation immediately after tank removal? [X] yes [ ] no | | unknown

If yes, explain reasoning YES, WITH THE APPROVAL FROM ALAMEDA COUNTY

If unknown at this point in time, please be aware that **excavated soil may not be returned to the excavation without prior approval from this office. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling activities.**

TABLE #2
REVISED 21 NOVEMBER 2003

RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

HYDROCARBON LEAK	SOIL ANALYSIS (SW-846 METHOD)		WATER ANALYSIS (Water/Waste Water Method)	
Gasoline (Leaded and Unleaded)	TPHG	8015M or 8260	TPHG	8015M or 524.2/624 (8260)
	BTEX	8260	BTEX	524.2/624 (8260)
	EDB and EDC	8260	EDB and EDC	524.2/624 (8260)
	MTBE, TAME, ETBE, DIPE, TBA, and EtOH by 8260 for soil and 524.2/624 (8260) for water			
	TOTAL LEAD	AA	TOTAL LEAD	AA
		--Optional--		
	Organic Lead	DHS-LUFT	Organic Lead	DHS-LUFT
Unknown Fuel	TPHG	8015M or 8260	TPHG	8015M or 524.2/624 (8260)
	TPHD	8015M or 8260	TPHD	8015M or 524.2/624 (8260)
	BTEX	8260	BTEX	524.2/624 (8260)
	EDB and EDC	8260	EDB and EDC	524.2/624 (8260)
	MTBE, TAME, ETBE, DIPE, TBA, and EtOH by 8260 for soil and 524.2/624 (8260) for water			
	TOTAL LEAD	AA	TOTAL LEAD	AA
		--Optional--		
	Organic Lead	DHS-LUFT	Organic Lead	DHS-LUFT
Diesel, Jet Fuel, Kerosene, and Fuel/Heating Oil	TPHD	8015M or 8260	TPHD	8015M or 524.2/624 (8260)
	BTEX	8260	BTEX	524.2/624 (8260)
	EDB and EDC	8260	EDB and EDC	524.2/624 (8260)
	MTBE, TAME, ETBE, DIPE, TBA, and EtOH by 8260 for soil and 524.2/624 (8260) for water			
Chlorinated Solvents	CL HC	8260	CL HC	524.2/624 (8260)
	BTEX	8260 or 8021	BTEX	524.2/624 (8260) or 502.2/602 (8021)
	1,4-Dioxane	8270M	1,4-Dioxane	8270M
Non-chlorinated Solvents	TPHD	8015M or 8260	TPHD	8015M or 524.2/624 (8260)
	BTEX	8260 or 8021	BTEX	524.2/624 (8260) or 502.2/602 (8021)
Waste, Used, or Unknown Oil	TPHG	8015M or 8260	TPHG	8015M or 524.2/624 (8260)
	TPHD	8015M or 8260	TPHD	8015M or 524.2/624 (8260)
	O&G	9070	O&G	418.1
	BTEX	8260	BTEX	524.2/624 (8260)
	CL HC	8260	CL HC	524.2/624 (8260)
	1,4-Dioxane	8270M	1,4-Dioxane	8270M
	EDB and EDC	8260	EDB and EDC	524.2/624 (8260)
	MTBE, TAME, ETBE, DIPE, TBA, and EtOH by 8260 for soil and 524.2/624 (8260) for water			
	METALS (Cd, Cr, Pb, Ni, Zn) by ICAP or AA for soil water			
	PCB*, PCP*, PNA, CREOSOTE by 8270 for soil and 524/625 (8270) for water			
	* If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)			

NOTES:

1. 8021 replaces old methods 8020 and 8010
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).

16. Chemical methods and associated detection limits to be used for analyzing sample(s):

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits shall be followed.

See Table 2, Recommended Minimum Verification Analyses for Underground Tank Leaks.

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
	907/B		

17. Submit Site Health and Safety Plan (See Instructions)

18. Submit copy of Worker's Compensation Certificate

Name of Insurer TRAVELER'S PROPERTY INS.

19. Submit Plot Plan (See Instructions)

20. Enclose Fee (See Instructions)

21. **Report all leaks or contamination to this office within 5 days of discovery.** The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (URL) form.

22. Submit a closure report to this office within 60 days of the tank removal. The closure report must contain all information listed in item 22 of the instructions.

23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one-B form for each UST to be removed) (mark box 8 for "Tank Removed" in the upper right hand corner, if applicable).

I declare that to the best of my knowledge and belief that the statements and information provided above are correct and true.

I understand that information, in addition to that provided above, may be needed in order to obtain approval from the Department of Environmental Health and that no work is to begin on this project until this closure plan has been approved.

I understand that any changes in design, materials, or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

CONTRACTOR INFORMATION

Name of Business Gettler-Ryan Inc.

Name of Individual DENNIS GAN

Signature Dennis Gan Date 9/8/2010

[V] PROPERTY OWNER OR [ ] MOST RECENT TANK OWNER (Check one)

Name of Business Chevron Facility #90290

~~Name of Individual~~ Timothy Dahl

Signature Timothy Dahl Date 9/9/2010

For Chevron USA

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

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard · Richmond, California 94801
Phone # 510-235-1393

CUSTOMER: GETTLER & RYAN **JOB NO:** 52T4147

GENERATOR: CHEVRON STATION # 90290
1802 WEBSTER ST ALAMEDA, CA. 94501

FOR: ECOLOGY CONTROL INDUSTRIES **TANK NO.:** 34107

LOCATION: RICHMOND **DATE:** 10/14/2010

LAST PRODUCT: WASTE OIL **TEST METHOD:** VISUAL GASTECH/1314 SMPN

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE : 1000 GALLONS CONDITION: SAFE FOR FIRE

REMARKS:

OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED AND THEREFORE, DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY. ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or it in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Bill Mackin

REPRESENTATIVE TITLE INSPECTOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000116509		800-321-5479	002135738 JJK

GENERATOR

5. Generator's Name and Mailing Address

CHEVRON STATION # 90290
PO BOX 6004
SAN RAMON, CA 94583

Generator's Phone: 925-842-4801

Generator's Site Address (if different than mailing address)

1002 WEBSTER ST
ALAMEDA, CA 94501

6. Transporter 1 Company Name: Ecology Control Industries — U.S. EPA ID Number: CAD983630173

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address

ECOLOGY CONTROL INDUSTRIES
255 PARR BOULEVARD
RICHMOND, CA 94801

Facility's Phone: 510-235-1352

U.S. EPA ID Number: CAD009466330

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE SOLID (EMPTY STORAGE TANK)	001	TP	500	P	612
	2.			0		
	3.			0		
	4.			0		

14. Special Handling Instructions and Additional Information

EC JOB #521A147 TANK #R4107

WEAR PROPER PPE WHEN HANDLING // WEIGHTS AND VOLUMES ARE APPROXIMATE

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Richard McMahon For Chevron Prod — Signature — Month: 01 Day: 31 Year: 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mark T. Crowell — Signature — Month: 01 Day: 31 Year: 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

25308

Mavry Welding Supply
ALLIANCE GAS PRODUCTS

4600 Malat Street • Oakland, CA 94601
(510) 533-9353 • Fax (510) 533-3002

411 Old County Rd. • Belmont, CA 94002
(650) 593-1838 • Fax (650) 593-1518

REMIT TO:
P.O. BOX 23804
OAKLAND, CA 94623-0804

DELIVERY TICKET

DOC.# 37399 DATE 9/21/2010 PG.# 1

BILL TO
58700
COD SALES
OAKLAND
COD-SALE CA

SHIP TO
COD SALES
OAKLAND
COD-SALE CA

FAX 510- -

CUSTOMER P.O. #	RELEASE #	TERMS	SHIPPED FROM
C/C		UPON RECEIPT	ALLIANCE GAS-MALAT P

SHIP VIA	ORDER DATE	REFERENCE	
WILL CALL	9/21/10	1	36 -2 -00 -11 - CPL 2 P0/00 00/3 05

CYLINDERS DEL.	CYLINDERS RET.	QUANTITIES ORDERED	QUANTITIES SHIPPED	QUANTITIES BACK ORDERED	U/M	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
		40	40		LB	ALL-DIR .Y DRY ICE RICE	1.00	40.00

C/

SUB TOTAL 40.00

09/21/10 09:43:10 9.75% SALES TAX 3.90
CAALAMEDA

SPECIAL INSTRUCTIONS

** TOTAL ORDER ** 43.90

1

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. By **Alliance Gas Products**

CAUTION: USE NO OIL OR LUBRICANT OF ANY KIND ON CYLINDERS, VALVES, GAUGES, REGULATORS OR ANY OTHER FITTINGS, AS SUCH USE IS DANGEROUS AND MAY CAUSE EXPLOSION.

EMERGENCY RESPONSE
1 (800) 633-8253

SHIPPED BY:

PLACARDS: ☐ ACCEPTED ☐ REFUSED

Terms & Conditions

THE CUSTOMER HEREIN CONSENTS TO AND ACCEPTS THE ABOVE PRODUCTS SUBJECT TO ALL THE CONDITIONS AS SET FORTH ON REVERSE SIDE HEREOF AND THE EXISTING CONTRACT BETWEEN BOTH PARTIES.

RECEIVED BY: X DATE

PRINT NAME: X

APPENDIX E

LABORATORY ANALYTICAL REPORT

McCampbell Analytical, Inc.
"When Quality Counts"

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

Conestoga-Rovers & Associates	Client Project ID: #311594-2010-P10; 9-0290	Date Sampled: 09/21/10
		Date Received: 09/22/10
5900 Hollis St, Suite A	Client Contact: Nathan Lee	Date Reported: 09/28/10
Emeryville, CA 94608	Client P.O.:	Date Completed: 09/28/10

WorkOrder: 1009607

September 29, 2010

Dear Nathan:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **#311594-2010-P10; 9-0290,**
2) A QC report for the above sample,
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.

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

1009607

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAY

GeoTracker EDF ☒ **PDF** ☒ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: NLEE@CRAworld.com Bill To: Nathan Lee

Company: Conestoga-Rovers and Associates

5900 Hollis Street Suite A

Emeryville, CA 94608 E-Mail: NLEE@CRAworld.com

Tele: (510) 420-3353 Fax: (510) 420-9170

Project #: 311594-2010-P10 Project Name: 9-0290

Project Location: 1802 Webster st, Alameda, CA Contractor: T0600100307

Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	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 (Cl 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) Cd,Cr,Pb,Ni,Zn	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	Other	Other	Comments
WOT-1		9/21/10	1420	9		X					X	X		X	X	X	X												X			X	

t, t1

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
	9/21/10	1430	Secure Office Location
	9/22/10	11:50	
	9/22/10	1500	

ICE/t° 4.6°

GOOD CONDITION ✓

HEAD SPACE ABSENT ____

DECHLORINATED IN LAB ____

APPROPRIATE CONTAINERS ✓

PRESERVED IN LAB ____

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

COMMENTS:

~~EDF Report~~ to DOHARE@CRAworld.com

Report to dgarnet NLEE @CRAworld.com

micro ext ok per N.L

we went off of the attachment

Waste, Used, or Unknown Oil	Soil		Water	
	~~TPHG~~	~~8015M or 8260~~	TPHG	8015M or 524.2/624 (8260)
	~~TPHD~~	~~8015M or 8260~~	TPHD	8015M or 524.2/624 (8260)
	~~O&G~~	~~9070~~	~~O&G TRPH~~	418.1
	~~BTEX~~	~~8260~~	BTEX	524.2/624 (8260)
	~~CL HC~~	~~8260~~	CL HC	524.2/624 (8260)
	~~1,4-Dioxane~~	~~8270M~~	1,4-Dioxane	8270M
	~~EDB and EDC~~	~~8260~~	EDB and EDC	524.2/624 (8260)

MTBE, TAME, ETBE, DIPE, TBA, and EtOH by ~~8260 for soil and~~ 524.2/624 (8260) for water
METALS (Cd, Cr, Pb, Ni, Zn) by ICAP or AA for soil water
PCB, PCP*, PNA, CREOSOTE by ~~8270 for soil~~ and 524/625 (8270) for water
*If found, analyze for dibenzofurans (PCBs) or dioxins (PCP) ← 2 additional

NOTES:

1. 8021 replaces old methods 8020 and 8010
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).

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1009607 **ClientCode: CETE**

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

Report to:
Nathan Lee
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608
(510) 420-3369 FAX (510) 420-9170

Email: nlee@craworld.com
cc: dgrunat@craworld.com, dohare@craworl
PO:
ProjectNo: #311594-2010-P10; 9-0290

Bill to:
Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: **09/22/2010**
Date Printed: **09/23/2010**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1009607-001	WOT-1	Water	9/21/2010 14:20	☐	C	B	D	E	E	A	E	A				

Test Legend:

1	1,4-DIOXANE_W	2	418_SG_W	3	8010BMS_W	4	8082A_PCB_W	5	8270D_W
6	G-MBTEX_W	7	LUFTMS_W	8	PREDF REPORT	9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by: Melissa Valles

Comments:

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

McCampbell Analytical, Inc.
"When Quality Counts"

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

Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**
Date and Time Received: **9/22/2010 6:01:20 PM**

Project Name: **#311594-2010-P10; 9-0290**
Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **1009607** Matrix Water
Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 4.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☑	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

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

Client contacted: Date contacted: Contacted by:

Comments: pH for total metals had to be adjusted to <2. After preservation sample had to sit for 24hrs prior to extracting and analyzing. Micro-Ext ok per N.L.

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #311594-2010-P10; 9-0290	Date Sampled: 09/21/10
		Date Received: 09/22/10
5900 Hollis St, Suite A	Client Contact: Nathan Lee	Date Extracted: 09/24/10
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/24/10

1,4-Dioxane by P&T and GC/MS SIM Mode*

Extraction method SW5030B Analytical methods SW8260B Work Order: 1009607

Lab ID	Client ID	Matrix	1,4-Dioxane	DF	% SS	Comments
001C	WOT-1	W	ND	1	86	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	2.0	µg/L
	S	NA	NA

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

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

surrogate diluted out of range or coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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

Conestoga-Rovers & Associates	Client Project ID: #311594-2010-P10; 9-0290	Date Sampled: 09/21/10
		Date Received: 09/22/10
5900 Hollis St, Suite A	Client Contact: Nathan Lee	Date Extracted: 09/23/10
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/27/10

Total Recoverable Petroleum Hydrocarbons with Silica Gel Clean-Up by IR Spectrometry*

Extraction method E418.1 Analytical methods E418.1 Work Order: 1009607

Lab ID	Client ID	Matrix	TRPH	DF	% SS	Comments
1009607-001B	WOT-1	W	ND	1	113	

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

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

DF = dilution factor (may be raised to dilute target analyte or matrix interference).
%SS = Percent Recovery of Surrogate Standard
surrogate diluted out of range or not applicable to this sample.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"
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

Conestoga-Rovers & Associates	Client Project ID: #311594-2010-P10; 9-0290	Date Sampled: 09/21/10
		Date Received: 09/22/10
5900 Hollis St, Suite A	Client Contact: Nathan Lee	Date Extracted: 09/24/10
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/24/10

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1009607

Lab ID	1009607-001D
Client ID	WOT-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
tert-Amyl methyl ether (TAME)	ND	1.0	0.5	Benzene	ND	1.0	0.5
Bromodichloromethane	ND	1.0	0.5	Bromoform	ND	1.0	0.5
Bromomethane	ND	1.0	0.5	t-Butyl alcohol (TBA)	ND	1.0	2.0
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Freon 113	ND	1.0	10
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethanol	ND	1.0	50
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	93	%SS2:	100
%SS3:	82		

Comments:

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

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

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

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Conestoga-Rovers & Associates	Client Project ID: #311594-2010-P10; 9-0290	Date Sampled: 09/21/10
		Date Received: 09/22/10
5900 Hollis St, Suite A	Client Contact: Nathan Lee	Date Extracted: 09/23/10
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/23/10

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3510C Analytical Method: SW8082 Work Order: 1009607

					Reporting Limit for DF =1	
Lab ID	1009607-001E					
Client ID	WOT-1					
Matrix	W					
DF	1				S	W
Compound	**Concentration**				ug/kg	µg/L
Aroclor1016	ND				NA	0.5
Aroclor1221	ND				NA	0.5
Aroclor1232	ND				NA	0.5
Aroclor1242	ND				NA	0.5
Aroclor1248	ND				NA	0.5
Aroclor1254	ND				NA	0.5
Aroclor1260	ND				NA	0.5
PCBs, total	ND				NA	0.5
Surrogate Recoveries (%)						
%SS:	101					
Comments	b1					

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

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 surrogate coelutes with another peak.

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

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

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Conestoga-Rovers & Associates	Client Project ID: #311594-2010-P10; 9-0290	Date Sampled: 09/21/10
		Date Received: 09/22/10
5900 Hollis St, Suite A	Client Contact: Nathan Lee	Date Extracted: 09/23/10
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/25/10

Semi-Volatile Organics by GC/MS*

Extraction Method: SW3510C Analytical Method: SW8270C Work Order: 1009607

Lab ID	1009607-001E
Client ID	WOT-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<100	10	10	Acenaphthylene	ND<100	10	10
Anthracene	ND<100	10	10	Benzo(a)anthracene	ND<100	10	10
Benzo(b)fluoranthene	ND<100	10	10	Benzo(k)fluoranthene	ND<100	10	10
Benzo(g,h,i)perylene	ND<100	10	10	Benzo(a)pyrene	ND<100	10	10
Chrysene	ND<100	10	10	Dibenzo(a,h)anthracene	ND<100	10	10
Fluoranthene	ND<100	10	10	Fluorene	ND<100	10	10
Indeno (1,2,3-cd) pyrene	ND<100	10	10	2-Methylnaphthalene	ND<100	10	10
Naphthalene	ND<100	10	10	Pentachlorophenol	ND<500	10	50
Phenanthrene	ND<100	10	10	Pyrene	ND<100	10	10

Surrogate Recoveries (%)

%SS1:	93	%SS2:	---#
%SS3:	95	%SS4:	96
%SS5:	81	%SS6:	120

Comments: a3,b1

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

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

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

a3) sample diluted due to high organic content.
b1) aqueous sample that contains greater than ~1 vol. % sediment

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Conestoga-Rovers & Associates	Client Project ID: #311594-2010-P10; 9-0290	Date Sampled: 09/21/10
		Date Received: 09/22/10
5900 Hollis St, Suite A	Client Contact: Nathan Lee	Date Extracted: 09/25/10
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/25/10

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1009607

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	WOT-1	W	ND	ND	ND	ND	ND	ND	1	99	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

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

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

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

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

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Conestoga-Rovers & Associates	Client Project ID: #311594-2010-P10; 9-0290	Date Sampled: 09/21/10
		Date Received: 09/22/10
5900 Hollis St, Suite A	Client Contact: Nathan Lee	Date Extracted: 09/23/10
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/28/10

LUFT 5 Metals*

Extraction method: E200.8 Analytical methods: E200.8 Work Order: 1009607

Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS	Comments
001E	WOT-1	W	TOTAL	0.63	140	61	230	250	1	100	b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	0.25	0.5	0.5	0.5	5.0	µg/L
	S	TOTAL	NA	NA	NA	NA	NA	NA

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

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

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

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

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

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Conestoga-Rovers & Associates	Client Project ID: #311594-2010-P10; 9-0290	Date Sampled: 09/21/10
		Date Received: 09/22/10
5900 Hollis St, Suite A	Client Contact: Nathan Lee	Date Extracted: 09/23/10
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/23/10

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3510C Analytical methods: SW8015B Work Order: 1009607

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1009607-001A	WOT-1	W	ND	1	115	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

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

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

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

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

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QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53305 WorkOrder 1009607

EPA Method SW8270C **Extraction SW3510C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Acenaphthene	N/A	50	N/A	N/A	N/A	74.9	76	1.46	N/A	N/A	30 - 130	20
4-Chloro-3-methylphenol	N/A	100	N/A	N/A	N/A	96.1	97.6	1.51	N/A	N/A	30 - 130	20
2-Chlorophenol	N/A	100	N/A	N/A	N/A	82.9	80.8	2.49	N/A	N/A	30 - 130	20
1,4-Dichlorobenzene	N/A	50	N/A	N/A	N/A	56.6	56.7	0.106	N/A	N/A	30 - 130	20
2,4-Dinitrotoluene	N/A	50	N/A	N/A	N/A	90.8	88.4	2.69	N/A	N/A	30 - 130	20
4-Nitrophenol	N/A	100	N/A	N/A	N/A	56.4	57	1.05	N/A	N/A	30 - 130	20
N-Nitrosodi-n-propylamine	N/A	50	N/A	N/A	N/A	95.4	81.4	15.8	N/A	N/A	30 - 130	20
Pentachlorophenol	N/A	100	N/A	N/A	N/A	103	105	2.12	N/A	N/A	30 - 130	20
Phenol	N/A	100	N/A	N/A	N/A	104	105	1.04	N/A	N/A	30 - 130	20
Pyrene	N/A	50	N/A	N/A	N/A	84.4	88.1	4.31	N/A	N/A	30 - 130	20
1,2,4-Trichlorobenzene	N/A	50	N/A	N/A	N/A	66	66.1	0.288	N/A	N/A	30 - 130	20
%SS1:	N/A	5000	N/A	N/A	N/A	90	81	10.3	N/A	N/A	30 - 130	20
%SS2:	N/A	5000	N/A	N/A	N/A	99	97	2.17	N/A	N/A	30 - 130	20
%SS3:	N/A	5000	N/A	N/A	N/A	98	96	1.51	N/A	N/A	30 - 130	20
%SS4:	N/A	5000	N/A	N/A	N/A	78	76	2.04	N/A	N/A	30 - 130	20
%SS5:	N/A	5000	N/A	N/A	N/A	87	82	5.60	N/A	N/A	30 - 130	20
%SS6:	N/A	5000	N/A	N/A	N/A	93	97	3.62	N/A	N/A	30 - 130	20

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

BATCH 53305 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009607-001E	09/21/10 2:20 PM	09/23/10	09/25/10 12:37 PM				

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

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53314 WorkOrder 1009607

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
1,4-Dioxane	N/A	20	N/A	N/A	N/A	99.3	112	11.6	N/A	N/A	70 - 130	20
%SS1:	N/A	25	N/A	N/A	N/A	89	89	0	N/A	N/A	70 - 130	20

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

BATCH 53314 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009607-001C	09/21/10 2:20 PM	09/24/10	09/24/10 3:45 PM				

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

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

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

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

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

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

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QC SUMMARY REPORT FOR E418.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53313 WorkOrder 1009607

EPA Method E418.1 **Extraction E418.1** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TRPH	N/A	11.85	N/A	N/A	N/A	97.6	98.5	0.947	N/A	N/A	70 - 130	20
%SS:	N/A	10	N/A	N/A	N/A	111	106	4.53	N/A	N/A	70 - 130	20

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

BATCH 53313 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009607-001B	09/21/10 2:20 PM	09/23/10	09/27/10 2:56 PM				

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

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

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

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

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

surrogate diluted out of range.

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53291 WorkOrder 1009607

EPA Method SW8015B **Extraction SW3510C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	113	114	0.906	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	117	118	0.388	N/A	N/A	70 - 130	30

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

BATCH 53291 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009607-001A	09/21/10 2:20 PM	09/23/10	09/23/10 8:35 PM				

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53308 WorkOrder 1009607

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1009609-001B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND<2.5	10	109	109	0	111	112	1.15	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND<2.5	10	110	110	0	96.7	98.9	2.31	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND<2.5	10	108	106	1.46	106	107	0.792	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND<2.5	10	115	121	5.10	98.9	101	1.65	70 - 130	30	70 - 130	30
Trichloroethene	ND<2.5	10	113	117	2.94	116	116	0	70 - 130	30	70 - 130	30
%SS1:	96	25	89	89	0	94	94	0	70 - 130	30	70 - 130	30
%SS2:	100	25	98	99	0.667	97	97	0	70 - 130	30	70 - 130	30
%SS3:	92	2.5	103	107	3.84	83	81	1.74	70 - 130	30	70 - 130	30

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

BATCH 53308 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009607-001D	09/21/10 2:20 PM	09/24/10	09/24/10 1:15 PM				

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

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

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

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

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

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8082

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53315 WorkOrder 1009607

EPA Method SW8082 **Extraction SW3510C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	N/A	3.75	N/A	N/A	N/A	116	117	0.435	N/A	N/A	70 - 130	20
%SS:	N/A	1.25	N/A	N/A	N/A	86	84	2.19	N/A	N/A	70 - 130	30

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

BATCH 53315 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009607-001E	09/21/10 2:20 PM	09/23/10	09/23/10 3:16 PM				

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53304 WorkOrder 1009607

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1009604-005A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	107	106	0.359	114	108	5.27	70 - 130	20	70 - 130	20
MTBE	ND	10	110	115	4.66	114	115	0.191	70 - 130	20	70 - 130	20
Benzene	ND	10	96.2	100	4.29	99.1	97.3	1.83	70 - 130	20	70 - 130	20
Toluene	ND	10	97.5	99.8	2.40	101	98.2	3.10	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	96.2	97.7	1.63	98.5	97.5	1.03	70 - 130	20	70 - 130	20
Xylenes	ND	30	98.3	101	2.34	101	100	1.40	70 - 130	20	70 - 130	20
%SS:	115	10	95	97	2.16	97	94	3.31	70 - 130	20	70 - 130	20

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

BATCH 53304 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009607-001A	09/21/10 2:20 PM	09/25/10	09/25/10 1:37 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 53296 WorkOrder 1009607

EPA Method E200.8 **Extraction E200.8** **Spiked Sample ID: 1009501-003A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Cadmium	ND	10	94.1	88.8	5.82	101	97.7	3.49	70 - 130	20	85 - 115	20
Chromium	ND	10	98.3	93.2	5.13	98.2	100	2.17	70 - 130	20	85 - 115	20
Lead	ND	10	92.9	89	4.16	99.5	97.2	2.22	70 - 130	20	85 - 115	20
Nickel	8.4	10	87.6	89	0.812	103	94	9.26	70 - 130	20	85 - 115	20
Zinc	16	100	94.9	92.1	2.56	109	103	4.76	70 - 130	20	85 - 115	20
%SS:	100	750	96	99	3.61	101	98	2.78	70 - 130	20	70 - 130	20

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

BATCH 53296 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009607-001E	09/21/10 2:20 PM	09/23/10	09/28/10 3:52 AM	1009607-001E	09/21/10 2:20 PM	09/23/10	09/28/10 2:45 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.

DHS ELAP Certification 1644

QA/QC Officer