



AEI Consultants

Environmental & Engineering Services

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By Alameda County Environmental Health at 9:28 am, Mar 15, 2013

February 16, 2012

UNDERGROUND STORAGE TANK REMOVAL REPORT

Property Identification:

Good Chevrolet
1630 Park Street
Alameda, CA 94501

AEI Project No. 298931

Prepared for:

Foley Street Investments, LLC
2533 Clement Avenue
Alameda, CA 94501

Prepared by:

AEI Consultants
2500 Camino Diablo
Walnut Creek, California 94597
(925) 746-6000

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National Presence

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Local Solutions

February 3, 2012

Ms. Karel Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: Perjury Statement and Report Transmittal

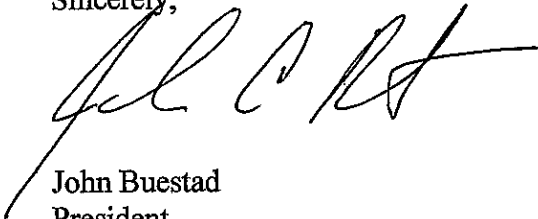
1600 – 1630 Park Street
Alameda, California 94501
AEI Project No. 298931
ACEH RO#0000008

Dear Ms. Detterman:

I declare under penalty of perjury, that the information and/or recommendations contained in the attached report for the above-referenced site are true and correct to the best of my knowledge.

If you have any questions or need additional information, please do not hesitate to call me at (510) 523-1925 or Mr. Peter McIntyre at AEI Consultants, (925) 746-6004.

Sincerely,



John Buestad
President

JB/pm

Attachment

cc: Mr. Peter McIntyre, AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597

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February 16, 2012

John Buestad
Foley Street Investments, LLC
2355 Clement Avenue
Alameda, CA 94501

Subject: Underground Storage Tank Removal
1630 Park Street
Alameda, CA 94501
AEI Project No. 298931

INTRODUCTION

AEI Consultants (AEI) has prepared this report to document the underground storage tank (UST) removal activities performed at 1630 Park Street in Alameda, CA (hereinafter referred to as the "site", see Figure 1: Site Location Map). The site consists of a former automobile dealership and repair facility (Good Chevrolet) on an irregularly shaped parcel totaling approximately 1.46 acres, is bound by Park Street to the northwest, 1650 Park Street to the northeast, Foley Street to the Southeast, and Tilden Way to the southwest in a mixed commercial and residential area of Alameda, CA. One 10,000 gallon, one 4,000 gallon gasoline USTs, and one 500 gallon waste oil UST were removed. The three USTs were constructed of double wall steel. The location of the USTs is shown in Figure 2: Site Plan.

AEI was contracted to obtain necessary permits, excavate to expose the USTs, remove and dispose of the tanks, associated piping, and residual liquids as well as perform soil sampling, analysis, and backfilling of the excavation.

PERMITS

Permits were obtained from the Alameda County Department of Environmental Health (ACDEH) and the City of Alameda Fire Department. On October 20, 2011 the City of Alameda Fire Department issued a UST removal permit. On November, 8, 2011 an underground storage tank closure permit was issued by ACDEH. The City of Alameda Public Works Department was notified of the project however had no permitting or inspection requirements. The excavation area was marked and the property owners and pertinent agencies were notified of the work plan and schedule. Copies of the permits and associated documents are located in Appendix A: Permitting Documents.

MOBILIZATION, EXCAVATION, AND REMOVAL

Prior to excavation and removal activities, AEI notified USA North to mark the site for any existing subsurface utilities. No utility conflicts were encountered. Prior to the initiation of

work, AEI field staff was briefed and the Site Health and Safety Plan reviewed. The Site Health and Safety Plan is located in Appendix B.

On November 3, 2011, approximately 550 gallons of gasoline was pumped out of the gasoline USTs and placed in 55 gallon drums for disposal. Also, the existing concrete slab above the USTs was saw-cut and the two product dispensers were removed and transported to Sims Metal Management in Richmond, CA where they were recycled. Excavation activities began on November 20, 2011. The concrete slab was removed, transported, and disposed of at a local rock quarry. Soil adjacent to the USTs was removed to expose the tanks. The excavated soil was segregated into two stockpiles. The soil excavated from the gasoline USTs was stockpiled east of the gasoline USTs location. The soil excavated from the waste oil UST location was stockpiled to the southeast of the waste oil excavation. Upon exposing the USTs, Excel Environmental Services, Inc. removed approximately 350 gallons of waste liquid (product and rinsate) from the tanks.

Tank removal activities were performed on November 22, 2011. A 90-ton hydraulic truck crane was used to rig, remove, and load the three USTs onto a low bed trailer. Prior to loading the UST on the trailer, a four-gas meter was used to evaluate the lower explosive limit (LEL) and oxygen content within the tanks. Levels were found to be acceptable and were witnessed by Mr. Steven Plunkett, the inspector from the ACDEH and Ken Jeffrey, the inspector from City of Alameda Fire Department.

The 90-ton hydraulic truck crane was used to load the tanks for disposal. The three steel tanks appeared to have minimal signs of corrosion and no obvious holes were observed. The tanks and associated piping were loaded onto a low bed trailers and transported under non-RCRA hazardous waste manifest to Ecology Control Industries' (ECI) disposal facility at 255 Parr Boulevard in Richmond, CA where the tanks were processed for recycling.

The non-RCRA hazardous waste manifests for the tanks and the waste liquid are located in Appendix C: Transportation and Disposal Documents.

At the direction of Mr. Plunkett, soil samples were taken from the bottom of the UST excavations at approximately 2 feet beneath each end of the former gasoline USTs and 2 feet beneath the center of the former waste oil UST [approximately 11 feet below ground surface (bgs) at the former 4000 gallon UST, 13 feet bgs at the 10,000 gallon UST, and 9 feet bgs at the waste oil UST]. The sample collected at 9 feet bgs beneath the waste oil UST had visible staining and a hydrocarbon odor. Therefore, an additional sample was collected from the waste oil UST excavation at 11 feet bgs., at which point the soil appeared clean. In addition, a groundwater (GW) sample was collected from the north portion of the gasoline UST excavation. Prior to collecting the GW sample, Excel Environmental Services, Inc. removed 800 gallons of standing GW from the excavation; the water sample was collected from the groundwater which recharged into the excavation.

Upon review of the sample results, Mr. Plunkett approved backfilling the gasoline UST excavation with the associated stockpiled soil. However, the stockpile generated from the waste oil UST was not allowed for reuse in the excavation due to the concentrations of

petroleum hydrocarbons detected. Elevated concentrations of petroleum hydrocarbons were also reported in the sample collected at 9 bgs in the waste oil excavation. Therefore, the excavation was extended to a depth of 11 feet bgs, on December 2, 2011. The excavated soil was added to the existing waste oil stockpile. The stockpile was later profiled and disposed of at a Class I landfill as detailed in the 'Soil Transportation and Disposal' section of this report.

On December 1, 2011 the gasoline UST excavation was backfilled with $\frac{3}{4}$ inch drain rock to bridge GW. A layer of filter fabric was placed above the drain rock. The excavation was then backfilled and compacted in lifts with the clean stockpiled material and $\frac{3}{4}$ inch class II aggregate base (AB). Upon removal of soil to 11 feet bgs, the waste oil excavation was backfilled and compacted in lifts with $\frac{3}{4}$ inch class II AB. Compaction tests were performed at each excavation. Results of 95% or greater were achieved at each location. Compaction test results are located in Appendix E.

SAMPLING AND ANALYSIS

Confirmation soil samples were collected on November 22, 2011 under the direction of Mr. Steven Plunkett with the ACDEH. As shown in Figure 3: Sample Location Plan, a total of ten soil samples and one groundwater sample were collected from the excavations. Confirmation soil samples Btm1 and Btm2 (at a depth of 13 feet bgs) as well as groundwater sample GW-1 were collected from beneath the 10,000 gasoline UST. Confirmation soil samples Btm3 and Btm4 were collected from the 4000 gasoline UST at a depth of 11 feet bgs. Confirmation soil samples D1 and D2 were collected 2 feet below each product dispenser at a depth of 3.5 feet bgs. Confirmation soil sample WO-9' was collected from the waste oil excavation bottom at 9 feet bgs and sample WO-11' was collected from 2 feet below the waste oil excavation bottom at a depth of 11 feet bgs. Stockpile soil samples STKP1(A/B/C/D) and STKP2(A/B/C/D) were four-point samples collected from the gasoline UST stockpile and waste oil UST stockpile, respectively. Each stockpile sample was placed in four discrete containers which were then combined into one composite sample at the laboratory.

All soil samples were collected using an AMS soil sampling kit with slide hammer. Samples were collected in six (6) inch brass tubes which were sealed with Teflon tape and plastic caps. Groundwater sample GW-1 was collected from the recharge water at the north portion of the excavation using a bailer and string. Prior to collecting the GW sample, Excel Environmental Services, Inc. removed 800 gallons of standing GW from the excavation, thus allowing for a recharge water sample to be taken. The groundwater was placed in 3 40-mL clear HCl preserved VOA vials, and 2 250-mL poly bottles. The samples were entered on a Chain of Custody and immediately placed into a cooler with ice. The cooler and samples were transported to McCampbell Analytical, Inc. (State Certification #1644) of Pittsburg, CA for analysis.

The gasoline UST excavation samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g), BTEX, and MBTE by EPA Method 8015 and the LUFT 5 Metals (Cd, Cr, Pb, Ni, and Zn) by EPA Method E200.8 and 6010B. The waste oil UST excavation samples were analyzed for TPH-g and Total Petroleum Hydrocarbons as diesel (TPH-d) by EPA Method 8015, Total Petroleum Oil & Grease (POG) by EPA Method 5520E/F, Volatile Organics (VOCs) by EPA

Method 8260B, and the LUFT 5 Metals by EPA Method E200.8 and 6010B. The analytical results are summarized in Table 1 and the laboratory analytical report is included as Appendix D.

Analysis of the confirmation soil and groundwater samples reported LUFT 5 metals within typically encountered naturally occurring concentrations. However, sample GW-1 reported TPH-g and BTEX results in excess of the Environmental Screening Levels (ESLs) for groundwater established by the San Francisco Bay Regional Water Quality Control Board (RWQCB). Except for soil sample WO-9' which was removed during over excavation, all other confirmation soil samples reported no analytes above laboratory reporting limits. Petroleum hydrocarbons and low concentrations of several VOCs were detected in the waste oil UST stockpile. No petroleum hydrocarbons were detected in gasoline UST stockpile.

SOIL TRANSPORTATION AND DISPOSAL

Based on the detection of total lead in the waste-oil UST stockpile at 130 mg/kg, STLC and TCLP analyses were required for disposal profiling. These solubility tests reported 5.5 mg/L and <0.2 mg/L of lead, respectively, in the soil, therefore the soil was classified as non-RCRA hazardous waste. The loading, transportation and disposal was conducted on January 27, 2012. The waste oil stockpile was loaded onto an end dump truck and transported under non-RCRA hazardous waste manifests to Clean Harbors' Buttonwillow landfill, a class I landfill. A total of 21.46 tons of impacted soil was disposed of.

The non-RCRA hazardous waste manifests for the excavated soil is located in Appendix C: Transportation and Disposal Documents.

SUMMARY

On November 22, 2011, tank removal activities were conducted at 1630 Park Street, Alameda, CA. One 10,000 gallon and one 4,000 gallon gasoline USTs and one 500 gallon waste oil UST were removed. Prior to removal, approximately 550 gallons of gasoline was pumped out of the gasoline USTs and placed in 55 gallon drums for disposal and approximately 350 gallons of waste liquid (product and rinsate) were removed from the USTs and transported off-site by Excel Environmental, Inc. The tanks were transported under non-RCRA hazardous waste manifest to Ecology Control Industries' disposal facility in Richmond, CA where the tanks were cleaned and processed for recycling.

Removal activities resulted in two excavations. The gasoline UST excavation was approximately 35 feet in length, 20 feet in width, and 13 feet in deep. The waste oil UST excavation was approximately 10 feet in length, 6.5 feet in width, and 11 feet in depth. During soil excavation, an odor of petroleum hydrocarbons and visual staining was observed in the soil beneath the waste oil UST; petroleum hydrocarbons were detected just beneath this UST and in the associated stockpile. On January 27, 2012, the waste oil stockpile was transported and disposed of under non-RCRA hazardous waste manifests to Clean Harbors' Buttonwillow landfill. A total of 21.46 tons of impacted soil was disposed of. After bridging groundwater with $\frac{3}{4}$ inch drain rock, the gasoline UST excavation was backfilled and compacted in lifts with the clean stockpiled soil and $\frac{3}{4}$ inch class II AB. The waste oil UST excavation was backfilled and

compacted in lifts with $\frac{3}{4}$ inch class II AB. Compaction tests were performed at each excavation. Results of 95% or greater were achieved at each location.

A total of 10 soil (8 confirmation and 2 stockpiles samples) and one groundwater sample were collected during tank removal activities. Following excavation of impacted soil beneath the waste oil UST, no other impact to soil is present at the UST area.

TPH-g and BTEX were detected in the groundwater sample collected from beneath the 10,000 gallon gasoline UST. However, based on the analyses of groundwater samples collected around these USTs in July 2011, no significant impact to groundwater has occurred in the area of the these USTs. The reviewer of this report is referred to soil and groundwater sample data from borings AEI-14 to AEI-16 presented in the August 16, 2011 Phase II Subsurface Investigation Report prepared by AEI for details on these prior samples. Based on the July 2011 data as well as the sample analyses collected during the tank removal activities, no further investigation or remedial action should be required for these USTs.


REPORT LIMITATIONS AND SIGNATURES

This report presents a summary of work completed by AEI, including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide information, but it cannot be assumed that they are entirely representative of all areas not sampled. Any and All conclusions and recommendations are based on these analyses and observations. Conclusions beyond those stated and reported herein should not be inferred from this document.

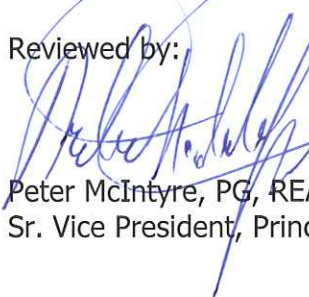
These services were performed in accordance with generally accepted practices in the environmental engineering and construction field that existed at the time and location of the work. If you have any questions regarding this report, we can be reached at (925) 746-6000.

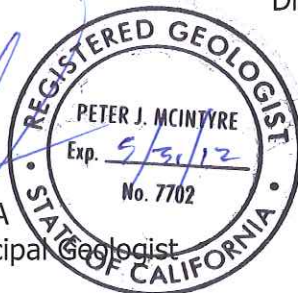
Sincerely,
AEI Consultants


Joseph Fermanian, EIT
Project Manager


Dusty Roy
Director, Construction

Reviewed by:

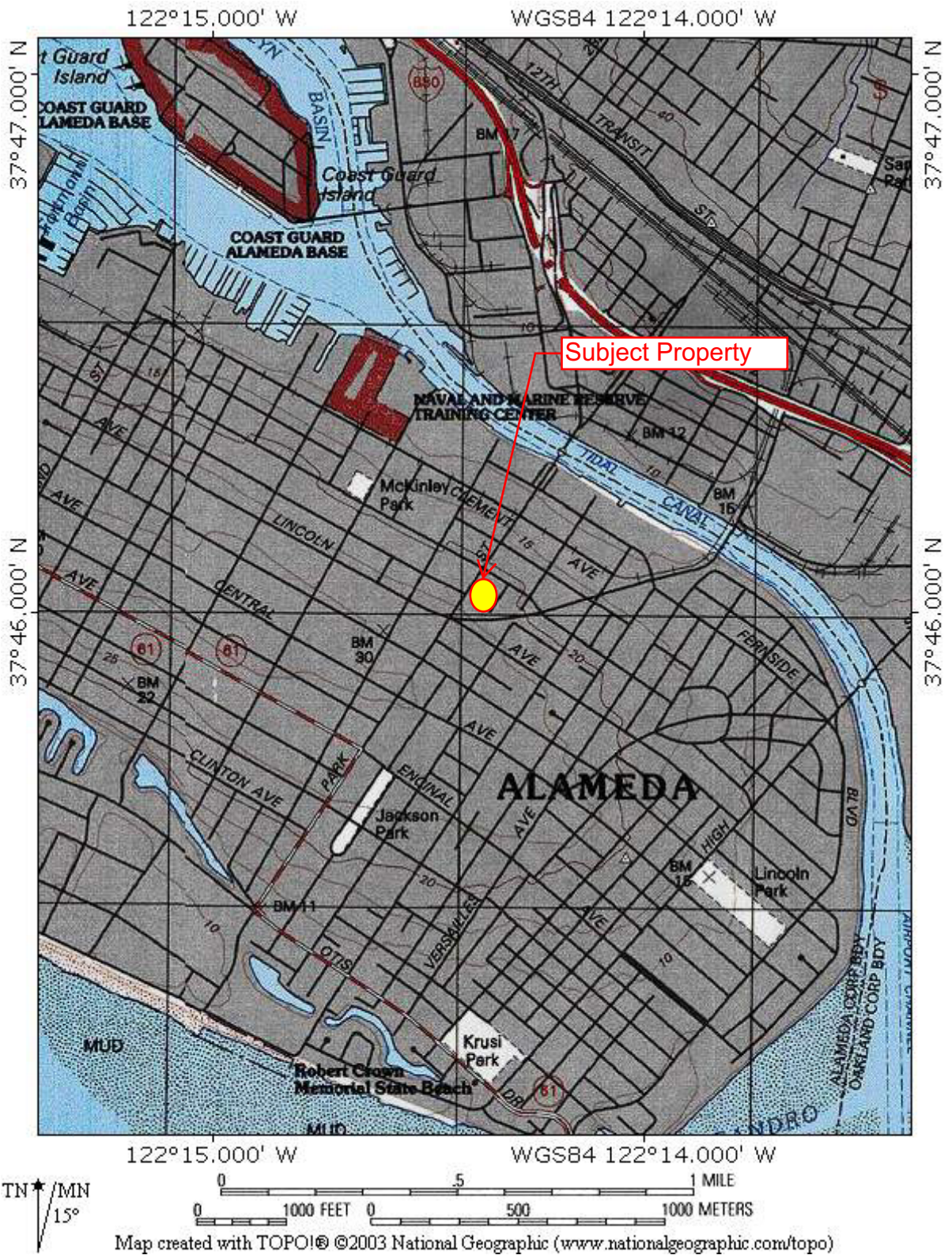

Peter McIntyre, PG, REA
Sr. Vice President, Principal Geologist



Report Distribution:

- 1) Steven Plunkett, Alameda County Dept. of Env. Health, 1131 Harbor Bay Pkwy, Alameda, CA 94502
- 2) Ken Jeffrey, City of Alameda Fire Dept., 2263 Santa Clara Ave, Alameda, CA 94501
- 3) John Buestad, Foley Street Investments, LLC, 2533 Clement Ave, Alameda, CA 94501

FIGURES







SITE LOCATION MAP

1630 Park Street, Alameda, California 94501





LEGEND

- N** SUBJECT PROPERTY BOUNDARY 
- (2) GASOLINE UST LOCATIONS 
- WASTE OIL UST LOCATION 
- (2) DISPENSER LOCATIONS 

0' 20' 40'
 APPROX. SCALE: 1 in = 40 ft

SITE PLAN

1630 PARK STREET
 ALAMEDA, CALIFORNIA

FIGURE 2
 JOB NO: 298931

AEI
 Consultants



LEGEND



- SUBJECT PROPERTY BOUNDARY
- EXCAVATION EXTENT
- SOIL SAMPLE
- GROUNDWATER SAMPLE

0' 20' 40'
 APPROX. SCALE: 1 in = 40 ft

SAMPLE LOCATION PLAN

1630 PARK STREET
 ALAMEDA, CALIFORNIA

FIGURE 3
 JOB NO: 298931



TABLES

Sample Analytical Data Tables
1630 Park Street, Alameda, CA

TABLE 1: Soil Sample Analytical Data - Petroleum Hydrocarbons and Metals

Sample ID	Date	Depth	TPH-g	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	TPH-d	POG	Cadmium	Chromium	Lead	Nickel	Zinc	Lead-STLC	Lead-TCLP	
			(mg/kg)														(mg/L)	
			Method SW8021B/8015Bm										SW8015B		SM5520		SW6010B	
Btm1	11/22/2011	13'	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	-	-	ND<1.5	44.0	13.0	23	27	-	-	
Btm2	11/22/2011	13'	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	-	-	ND<1.5	49	ND<5.0	44	30	-	-	
Btm3	11/22/2011	11'	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	-	-	ND<1.5	57	12	46	35	-	-	
Btm4	11/22/2011	11'	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	-	-	ND<1.5	58	ND<5.0	50	33	-	-	
D1	11/22/2011	3.5'	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	-	-	ND<1.5	49	ND<5.0	25	19	-	-	
D2	11/22/2011	3.5'	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	-	-	ND<1.5	53	ND<5.0	18	16	-	-	
WO-9**	11/22/2011	9'	6.3	-	-	-	-	-	240	460	ND<1.5	87	13	55	47	-	-	
WO-11'	11/22/2011	11'	ND<1.0	-	-	-	-	-	ND<1.0	ND<50	ND<1.5	66	ND<5.0	47	32	-	-	
STKP1(A/B/C/D)	11/22/2011	-	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	-	-	ND<1.5	53	34	36	54	-	-	
STKP2(A/B/C/D)	11/22/2011	-	ND<1.0	-	-	-	-	-	150	370	ND<1.5	41	130	23	110	5.5	ND<0.2	
ESL	-	-	83	0.023	0.044	2.9	3.3	2.3	83	-	7.4	2500	750	150.0	600	150.0	600	

TABLE 2: Soil Sample Analytical Data - Volatile Organic Compounds (VOCs)

Sample ID	Date	PCE	cis12-DCA	124-TMB	Xylenes
		(mg/kg)			
		Method SW8260B			
STKP2(A/B/C/D)	11/22/2011	0.016	ND<0.005	0.0056	0.0051
WO-9**	11/22/2011	ND<0.005	0.0085	0.0071	0.012
WO-11'	11/22/2011	ND<0.005	ND<0.005	ND<0.005	ND<0.005
ESL	-	0.70	0.19	-	2.3

TABLE 3: Groundwater Sample Analytical Data - Petroleum Hydrocarbons and Metals

Sample ID	Date	Depth	TPH-g	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	Cadmium	Chromium	Lead	Nickel	Zinc
			(µg/L)										
			Method SW8021B/8015Bm							E200.8			
GW-1	11/22/2011	13'	2400	ND<0.05	18	180	42	310	ND<0.25	ND<0.5	ND<0.5	2.9	83
ESL	-	-	100	5	1	40	30	20	0.25	50	2.5	8.2	81

mg/kg = milligrams per kilogram

µg/L = micrograms per liter

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

ND = non-detect, below reporting limit

124-TMB = 1,2,4-Trimethylbenzene

PCE = Tetrachloroethene

cis12-DCA = cis-1,2-Dichloroethene

STLC = Soluble Threshold Limit Concentration (extraction method required for landfill profiling)

TCLP = Toxicity Characteristic Leaching Procedure (extraction method required for landfill profiling)

ESL = Environmental Screening Levels for commercial/industrial area where groundwater is a potential drinking source, set by SF Bay Regional Water Quality Control Board

** = denotes sample area which was removed in additional excavation activities performed on 12/2/2011

APPENDIX A:
PERMITTING DOCUMENTS

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

DATE 11/8/11
 BY [Signature]

DEPARTMENT OF ENVIRONMENTAL HEALTH
APPROVED

ACCEPTED

Underground Storage Tank Closure Permit Application
 Alameda County Division of Environmental Health
 1131 Harbor Bay Parkway, Suite 250
 Alameda, CA 94502-6577

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure plans requested by this Department are to ensure compliance with the State and Local laws. The project proposed herein is now ready for issuance of any required building permits for construction.

A copy of the accepted plans must be on the job and submitted to all contractors and craftsmen involved with the project.

Any changes or alterations of these plans and specifications must be submitted to this Department and to the Division of Building Inspections Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 72 hours prior to the following required inspections:

~~XXXX~~ Removal of Tank(s) and Piping
~~XXXX~~ Sampling
~~XXXX~~ Final Inspection

issuance of a) permit to operate, b) permanent site closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

*THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS:

Contact Specialist:

UNDERGROUND STORAGE TANK CLOSURE PLAN

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

- Name of Business Former Good Chevrolet
 Business Owner or Contact Person (PRINT) John Buestad
- Site Address 1630 Park Street
 City, State Alameda, CA Zip 94501 Phone _____
- Mailing Address 2355 Clement Avenue
 City, State Alameda, CA Zip 94501 Phone 510-523-1925x201
- Property Owner John Buestad
 Business Name (if applicable) Foley Street Investments, LLC
 Address 2355 Clement Avenue
 City, State Alameda, CA Zip 94501 Phone 510-523-1925x201
- Generator name under which tank will be manifested
Foley Street Investments, LLC
 EPA I.D. No. under which tank(s) will be manifested CAC002678125
- Contractor AEI Consultants
 Address 2500 Camino Diablo

GOOD CHEVROLET, 1630 PARK ST, ALAMEDA 10/24/2011

SR0019694

City, State Walnut Creek, CA Zip 94597 Phone 925-746-6000x123

License Type A / HAZ ID# 654919

7. Consultant (if applicable) AEI Consultants

Address (same as above)

City, State _____ Zip _____ Phone _____

8. Main Contact Person for Investigation (if applicable)

Name Peter McIntyre Title VP / Geologist

Company AEI Consultants

Phone 925-746-6004

9. Number of underground tanks being closed with this plan 3

Length of piping being removed under this plan 30+/- feet

Total number underground tanks at this facility (confirmed with owner or operator) 3

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

a) Product/Residual Sludge/Rinsate Transporter

Name Excel Environmental Services EPA I.D. No. CAL000209350

Hauler License No. _____ License Exp. Date _____

Address _____

City, State Tracy, CA Zip _____

b) Product/Residual Sludge/Rinsate Disposal Site

Name Riverbank Oil Transfer EPA I.D. No. CAL000190816

Address 5300 Claus Rd Bldg 11

City, State Riverbank, CA Zip 95367

c) Tank and Piping Transporter

Name Ecology Control Industries EPA I.D. No. CAD982030173
Hauler License No. _____ License Exp. Date _____
Address 255 Parr Blvd
City, State Richmond, CA Zip 94801

d) Tank and Piping Disposal Site

Name Ecology Control Industries EPA I.D. No. CAD009466392
Address 255 Parr Blvd
City, State Richmond, CA Zip 94801

11. Sample Collector

Name Joseph Fermanian
Company AEI Consultants
Address (same as above)
City, State _____ Zip _____ Phone _____

12. Laboratory

Name McCampbell Analytical Inc.
Address 1534 Willow Pass Road
City, State Pittsburg, CA Zip 94565
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:

Tanks shall be rendered inert by placing 1.5 pounds of dry
ice pellets per 100 gallons of tank volume.

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)		
10,000	gasoline	soil	Each end of tank & center. 2' into native.
4,000	gasoline	soil	Each end of tank 2' into native.
500	waste oil	soil	Center of tank 2' into native.

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) Approximately 75 yards.	Sampling Plan Four point composite will be taken from each stockpile.

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? yes no unknown

If yes, explain reasoning _____

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.

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
Gas USTs:			
TPHG		8260	
BTEX		8260	
MBTE		8260	
		EDB/EDC	
Waste Oil UST:			
TPHG		8260	
TPHD		8260	
O&G		9070	
Pb			
Analysis shall be confirmed with Inspector			

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

18. Submit copy of Worker's Compensation Certificate

Name of Insurer Edgewood Partners Insurance Centers (Policy#57WELP5873)

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.

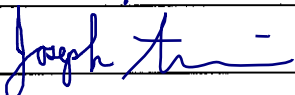
I understand that information, in addition to that provided above, may be needed in order to obtain approval from the Department of Environmental Health and that no work is to begin on this project until this closure plan has been approved.

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

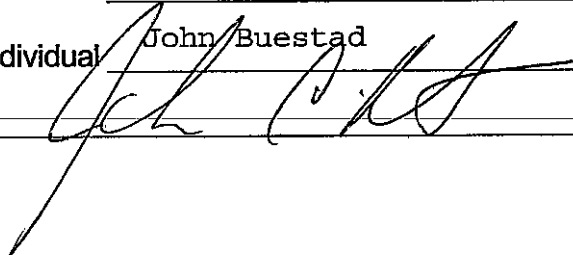
I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner 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 AEI Consultants
Name of Individual Joseph Fermanian
Signature  Date 10-20-11

PROPERTY OWNER OR MOST RECENT TANK OWNER (Check one)

Name of Business Foley Street Investments, LLC
Name of Individual John Buestad
Signature  Date 10-19-11



CITY OF ALAMEDA
 2263 SANTA CLARA AVENUE, ROOM 190
 ALAMEDA, CA 94501

(510) 747-6800
 FAX (510) 865-4053

Inspection Card

Permit # F11-0087

EXPIRES:

ISSUED: 10/20/2011

VALUATION: \$15000.00

Address: 1630 PARK ST

Owner: CITY OF ALAMEDA 2263 SANTA CLARA AVE ALAMEDA CA 94501-4477

Contractor: AEI CONSULTANTS 3210 OLD TUNNEL ROAD SUITE B LAFAYETTE CA

Work Description: T/I FOLEY STREET INVESTMENTS, LLC - REMOVE 3 UNDERGROUND STORAGE TANKS

Foundations:

Ground Plumbing:

Rough Electric:

Rough Plumbing:

Rough Heating & Ventilation:

Sub Floor:

Frame:

Insulation:

 Certificate: _____

** Comments **

Sheetrock / Interior Lath:

(Required before taping or plastering)

Exterior Lath:

(Required before Stucco)

DESIGN REVIEW: (YES) (NO) By:

 Final

Gas Test:

Kelly Test:

Sewer Repair / Replacement:

Final - Electric:

Final - Fire Department:

Final - Plumbing:

Final - Heating & Ventilation:

Final - Building:

Final - Public Works:

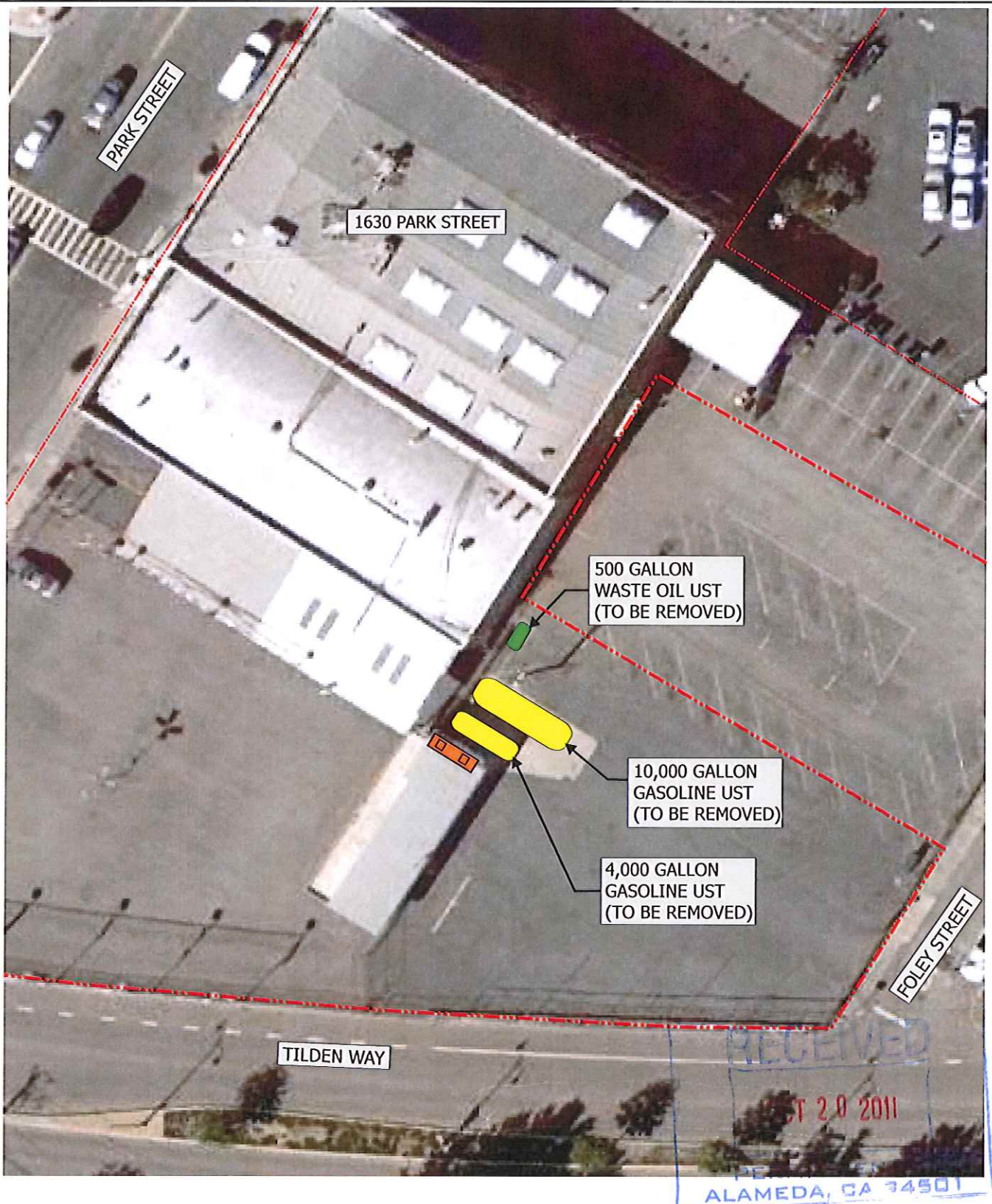
Do not occupy structure until Certification of Occupancy has been issued. For Certificate of Occupancy to be issued, a copy of the inspection card with all Finals needs to be filed with the Permit Center, Room 190, City Hall, Alameda, CA

FOR INSPECTIONS - CALL 7:30 - 8:30 AM ONLY

Building: (510) 747-6830
 Plumbing & Mechanical: (510) 747-6830
 Electrical: (510) 747-6830

INSPECTIONS (MUST BE SCHEDULED)

Fire: (510) 337-2120
 Design Review: (510) 747-6850
 Public Works: (510) 749-5840



LEGEND

N

SUBJECT PROPERTY BOUNDARY



(2) GASOLINE UST LOCATIONS



WASTE OIL UST LOCATION



(2) DISPENSER LOCATIONS



JOB SITE COPY

0' 20' 40'

APPROX. SCALE: 1 in = 40 ft

SITE PLAN

1630 PARK STREET

ALAMEDA, CALIFORNIA

FIGURE 2

JOB NO: 298931


AEI
Consultants

F11-0087 1630 Park St

TRANSMISSION VERIFICATION REPORT

TIME : 11/21/2011 09:02
 NAME : AEICONCONSULTANTS
 FAX : 9257466095
 TEL : 9257466095
 SER. # : BROA0J129457

DATE, TIME 11/21 09:02
 FAX NO. /NAME 14159280338
 DURATION 00:00:40
 PAGE(S) 02
 RESULT OK
 MODE STANDARD
 ECM

 BAY AREA AIR QUALITY MANAGEMENT DISTRICT	<h2>COMPLIANCE & ENFORCEMENT DIVISION</h2>	Notification Form
		Regulation 8 Rule 40

REMOVAL OF UNDERGROUND STORAGE TANKS OR TREATMENT OF CONTAMINATED SOIL

SITE OF ACTIVITY

Site Address: 1630 Park Street **City & Zip:** Alameda 94501 **Site#:**
Specific Location of Project within Address: Rear of building, adjacent to Foley Street
Owner/Operator: Foley Street Investments, LLC

Check any that apply (400 numbers refer to regulation section requiring reporting):

Tank Removal or Replacement (401) Contaminated Soil Excavation and Removal (402)

Aeration of Soil < 50 ppmw organic content, but does not meet Section 118 Exemption (403)

Section 114 Exempt; Date Pipeline Leak **Started:** _____ Vol. Of Soil: _____ (403)

Section 115 Exempt; Date Contamination Unrelated to UST Activities **Discovered:** _____ (405)

If only Tank Removal is selected, attach results showing soil is not contaminated

CONTRACTOR INFORMATION

Name: AEI Consultants **Site Contact:** Joseph Fermanian **Phone:** 925-746-6023
Address: 2500 Camino Diablo #200 Walnut Creek 94597

TANK REMOVAL (Section 401)

Scheduled Start Date: 11/21/2011 **Number and Size of Tank(s):** 3 - 10k, 4k, and 500 gallon

Explain Methods of:
 Piping drainage or flushing (310.1) Pump into tanker truck
 Liquid and sludge removal (310.2) Pump into tanker truck

Vapor removal (310.3) [Check One] Water Displacement Vapor Freeing* Ventilation*

* Emission controls required for vapor freeing or ventilation if tank size greater than 250 gallons.
COMPLETE INFORMATION BELOW OR ATTACH SAMPLE RESULTS SHOWING SOIL IS UNCONTAMINATED (310.4)

CONTAMINATED SOIL EXCAVATION AND REMOVAL (Section 402)

Scheduled Start Date: _____ **Scheduled Completion Date:** _____



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Regulation 8
Rule 40

REMOVAL OF UNDERGROUND STORAGE TANKS OR TREATMENT OF CONTAMINATED SOIL

SITE OF ACTIVITY

Site Address: 1630 Park Street	City & Zip: Alameda 94501	Site#:
Specific Location of Project within Address: Rear of building, adjacent to Foley Street		
Owner/Operator: Foley Street Investments, LLC		

Check any that apply (400 numbers refer to regulation section requiring reporting):

- Tank Removal or Replacement (401) Contaminated Soil Excavation and Removal (402)
- Aeration of Soil < 50 ppmw organic content, but does not meet Section 118 Exemption (403)
- Section 114 Exempt; Date Pipeline Leak **Started:** _____ Vol. Of Soil: _____ (403)
- Section 115 Exempt; Date Contamination Unrelated to UST Activities **Discovered:** _____ (405)

If only Tank Removal is selected, attach results showing soil is not contaminated

CONTRACTOR INFORMATION

Name: AEI Consultants	Site Contact: Joseph Fermanian	Phone: 925-746-6023
Address: 2500 Camino Diablo #200 Walnut Creek 94597		

TANK REMOVAL (Section 401)

Scheduled Start Date: 11/21/2011	Number and Size of Tank(s): 3 - 10k, 4k, and 500 gallon
---	--

Explain Methods of:

- Piping drainage or flushing (310.1) Pump into tanker truck
- Liquid and sludge removal (310.2) Pump into tanker truck

Vapor removal (310.3) [Check One] Water Displacement Vapor Freeing* Ventilation*

* Emission controls required for vapor freeing or ventilation if tank size greater than 250 gallons.

COMPLETE INFORMATION BELOW OR ATTACH SAMPLE RESULTS SHOWING SOIL IS UNCONTAMINATED (310.4)

CONTAMINATED SOIL EXCAVATION AND REMOVAL (Section 402)

Scheduled Start Date:	Scheduled Completion Date:
------------------------------	-----------------------------------

Purpose of Excavation: _____

Quantity of Soil: _____ **Organic Content & Type:** _____

Methods used to quantify and analyze soil: _____

Method of Stockpile Control (304-306)

- Water Spray Covered Vapor Suppressant (List Material Used): _____

Method of Site Closure (306)

- Backfilled Contaminated Soil Removed
- Onsite Treatment (Describe): _____ A/C or P/O #: _____

Loaded Trucks Covered? (306.2) Yes No

AERATION OF SOIL < 50 PPMW ORGANIC CONTENT (Section 403)

You must submit a Permit Application and Risk Screening Analysis (Forms will be sent to you)

FOR BAAQMD USE ONLY

Print/PM Date:	By:	Disp to I#:	Area:	Date:	By:
Inv Req Date:	By:	Fwd to Supv.		Date:	By:

See Page Two to Complete This Form

Press to clear form

Approved 7/8/03

APPENDIX B:
SITE HEALTH AND SAFETY PLAN

October 19, 2011

**SITE-SPECIFIC
HEALTH, SAFETY AND ACCIDENT
PREVENTION PLAN**

AEI Project No. 298931

Prepared For

Foley Street Investments, LLC
2355 Clement Avenue
Alameda, CA 94501

Prepared By

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
(925) 746-6000

AEI

GENERAL INFORMATION

Client/Site Name: John Buestad / Good Chevrolet
Site Address: 1630 Park Street, Alameda, CA
Job/Project #: 298931
Est. Start Date: November 08, 2011 Est. Completion Date: November 25, 2011

Have Necessary Underground Utility Notifications for Subsurface Work Been Made? Yes N/A

SCOPE OF WORK

Site Description: Former Good Chevrolet, inactive lot. 3 USTs located on site.

Specific Tasks Performed by AEI: Remove a total of 3 underground storage tanks (USTs).
The tanks are as follows:
- one 10,000 gallon gasoline UST
- one 4,000 gallon gasoline UST
- one 500 gallon waste oil UST

Concurrent Tasks to be Performed by AEI Subcontractors (List Subcontractors by Name): None

Concurrent Tasks to be Performed by Others: None

ROLES AND RESPONSIBILITIES

AEI ON-SITE PERSONNEL:

Name	Project Title/Assigned Role	Telephone Numbers
Dusty Roy	Job Foreman / Site Supervisor	(925) 250-0002
Joe Fermanian	Project Manager / Site Safety Officer	(510) 922-8861
Patrick Muller	Laborer	(925) 768-2969

OTHER PROJECT PERSONNEL:

Name	Project Title/Assigned Role	Telephone Numbers

- **Site Supervisors and Project Managers (SS/PM):** Responsibility for compliance with AEI Health and Safety programs, policies, procedures and applicable laws and regulations is shared by all AEI management and supervisory personnel. This includes the need for effective oversight and supervision of project staff necessary to control the Health and Safety aspects of AEI on-site activities.
- **Site Safety Officers and Competent Persons (SSO):** The Site Safety Officer (SSO), as defined by OSHA 1926.20(b), is the individual "who is capable of identifying existing and predictable hazards in surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them." The SSO is designated on a site-by-site basis based on the site conditions, scope-of-work, and the individual's ability to recognize site-specific hazards and take appropriate corrective actions. This individual is responsible to both project management and the designated Health and Safety Officer (HSO) with regard to the completion of these assigned duties.
- **Staff:** Ultimate control of Health Safety is in the hands of each individual employee. Therefore, each employee must become familiar with and comply with all Health and Safety requirements associated with their position and daily operations. Employees also have the responsibility to notify the appropriate management, SSO, and/or HSO of unsafe conditions and accidents/injuries immediately. When employees are issued respirators or any other personal protective equipment (PPE), they are responsible for ensuring that said items are used properly, cleaned as required and maintained in good working order.
- **(Sub)contractors:** (Sub)contractors should develop their own site safety plan related to their specific on-site activities. Subcontractors may use AEI's plan as an informational model. However, each Subcontractor is responsible for determining the plan's adequacy and applicability to its own activities on site. Subcontractors wishing to do so must deliver their plan in clear written form to AEI prior to the initiation of on-site activities.

PLAN ACKNOWLEDGEMENT AND APPROVALS

Approval or Acknowledgement	SSO SS/PM	HSO
Probable hazards identified on form.	X	X
Project scope accurately reflected on form.	X	
Appropriate emergency response info identified on form.	X	X
Appropriate control measures identified on form.	X	X
Hazards and control measures to be implemented on site acknowledged.	X	
Overall project scope and health and safety requirements acknowledged.	X	

EMERGENCY INFORMATION [CAL OSHA 8 CCR 5192(L)]

Directions to Nearest Hospital Attached: Yes No (if no, do not proceed)

Phone Numbers: Hospital #: (510) 522-3700 Ambulance #: 911
Emergency #: **911** Police/Fire #: 911


Hospital Name & Address: Alameda Hospital
 2070 Clinton Ave
 Alameda, California 94501

Other Emergency Contact: Joseph Fermanian Phone #: (510) 922-8861


Location of Nearest Phone: Mobile cellular telephone in the Site Safety Officer’s work vehicle

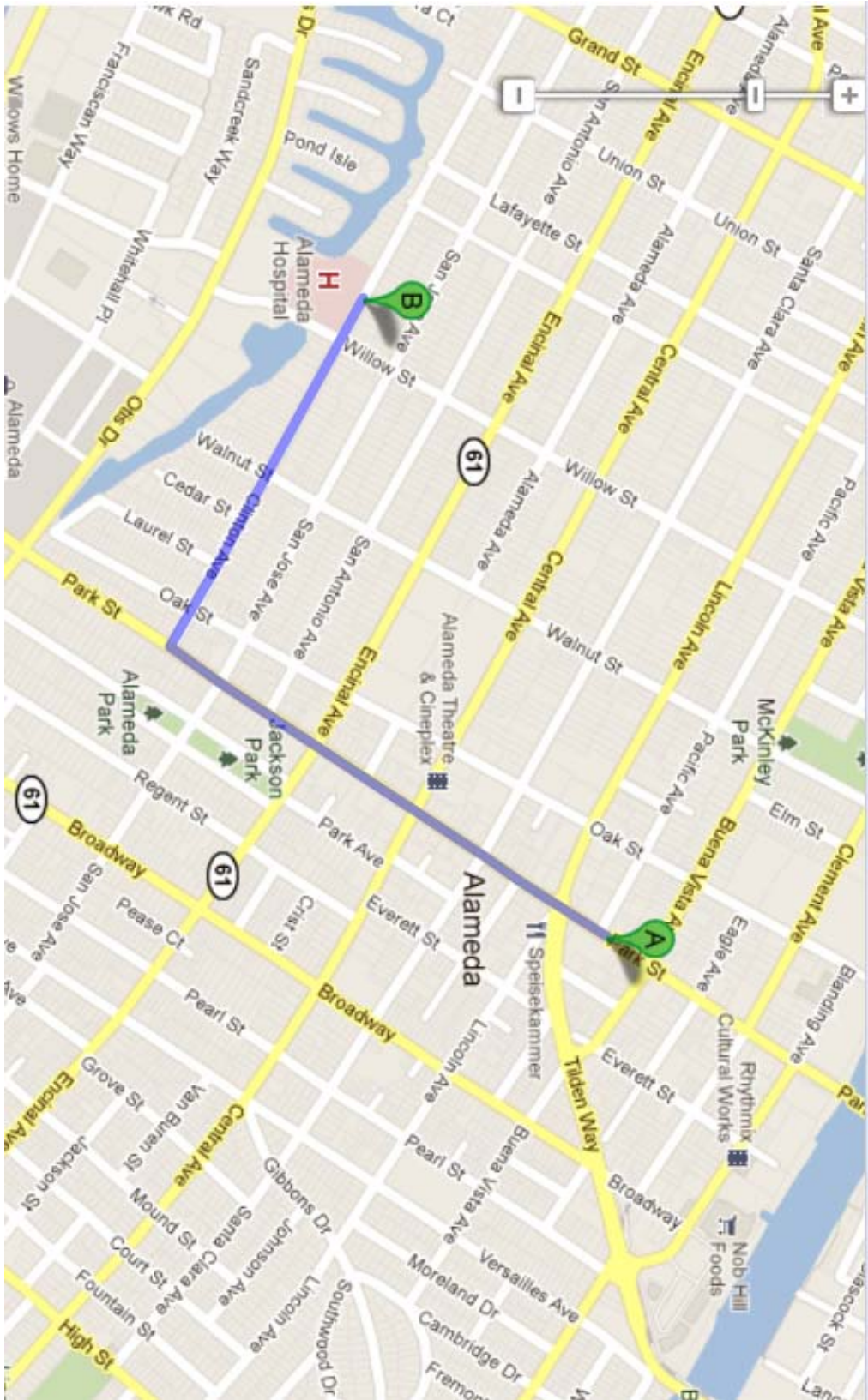
DIRECTIONS TO THE CLOSEST EMERGENCY ROOM

Driving directions to Alameda Hospital @ 2070 Clinton Ave
 (1.1 miles – about 4 minutes)

 1630 Park St
 Alameda, CA 94501

1. Head **southwest** on **Park St** toward **Pacific Ave** 0.6 mi
2. Turn right onto **Clinton Ave** 0.5 mi

 Alameda Hospital
 2070 Clinton Ave
 Alameda, California 94501



EMERGENCY PROCEDURES [CAL OSHA 8 CCR 5192(L)]

If an emergency arises, the on-site personnel should contact **emergency services by dialing 911**. Emergency communications at the site will be by means of a cellular radio and/or telephone. All work in the project area should stop and the work area should be secured, to the extent possible. The following general procedures will be followed in the case of a medical emergency at the site:

Skin Contact—Skin exposure should be treated by rinsing with soap and water. All contaminated clothing must be removed.

Eye Contact—Eye contact with chemicals should be treated by rinsing the eye with solution or water for at least 15 minutes. If symptoms persist, medical attention should be sought as soon as possible.

Ingestion—Seek immediate medical attention. Refer to MSDS.

Inhalation—Any warning symptoms such as headache, dizziness, nausea, shortness of breath, etc. necessitate that the victim leave the immediate site area rapidly. If the victim stops breathing, assisting personnel should don breathing protection while removing them from the area. Persons trained in CPR should immediately begin initiated, while medical attention should be obtained as soon as possible.

In case of evacuation, all vehicles/equipment should be turned off and personnel should immediately leave the work area. Personnel should move to the specified meeting area located upwind of the affected area, such as the building exterior, site field office, property boundary, or other predestinated location, where all personnel will be accounted for.

IF AN EMERGENCY ARISES, THE DESIGNATED MEETING LOCATION FOR THE PROJECT MUST BE SELECTED AT THE DAILY SAFETY MEETING.

Personnel should not reenter the work area following evacuation until all of the following conditions have been met:

- 1) The condition causing the emergency has been corrected.
- 2) All hazards have been assessed.
- 3) The HASP has been reviewed.
- 4) Personnel have been oriented on any changes in the HASP.

All emergencies should be promptly reported to the SSO.

DOCUMENTATION TO BE COMPLETED ON SITE

- A **Site Health and Safety Briefing** or “Tailgate Safety Meeting” must be completed at the initiation of on-site activities and at the beginning of site activities each day thereafter until the completion of AEI on-site activities. (Note: The actual briefing may be conducted off site, in the office for example, if conditions preclude or render impractical its completion on site.) The corresponding **Site Orientation Record** should be completed at the initiation of on-site activities and once per week thereafter.
- The **AEI Incident Investigation Form** and the **Subcontractor's Statement of Understanding Regarding Health and Safety Responsibilities Form** are to be completed on an as needed basis.

EQUIPMENT AND CONTROLS [CAL OSHA 8 CCR 5192(D) AND (G)(5)]

Based on an evaluation of the suspected and known hazards at the site, Level D PPE will be required for all personnel and visitors entering the controlled portion of the site. Protective equipment for each level of protection is summarized below. Both Level C and D PPE should be available on-site at all times during all phases of the project, as conditions may change and require additional PPE. Work should be conducted in Level D as long as breathing zone vapor concentrations remain at background or below **10 ppmv**, no breathing protection will be required. Engineering controls, such as forced air ventilation, will be used when feasible to reduce respiratory hazards. If on-site personnel find that breathing zone concentrations exceed **10 ppmv**, then the SSO or PM will make a determination if work shall continue in Level C PPE.

At this time, all work in the affected area should be suspended until a decision is made. Implementation of Level C PPE will be required if work continues during elevated breathing zone concentrations. Donning and use of respirators shall be performed in accordance with manufacturer specifications. Replacement of respirator cartridges shall be performed in accordance with manufacturer specifications. All respirators and cartridges shall be stored in air tight bags while not in use.

<p>Personal Protective Equipment—Level D</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Hearing Protection (as needed near loud equipment) <input checked="" type="checkbox"/> Hardhat <input checked="" type="checkbox"/> Outer Gloves Type: Nitrile or Leather (as needed) <input type="checkbox"/> Inner Gloves Type: <input checked="" type="checkbox"/> Steel Toe Boots: <input type="checkbox"/> Coveralls Type: <input type="checkbox"/> Outer Boots Type: <input checked="" type="checkbox"/> Eye Protection: Safety Glasses <input checked="" type="checkbox"/> Safety Vest with Reflective Strips 	<p>Personal Protective Equipment—Level C</p> <ul style="list-style-type: none"> <input type="checkbox"/> Respirator Type: Full-Face Air Purifying Respirator <input type="checkbox"/> Cartridge Type: Organic Vapor w/ P100 Particulate Filter <input type="checkbox"/> Assigned Protection Factor: 50 <input type="checkbox"/> Others:
<p>Monitoring Equipment ¹</p> <ul style="list-style-type: none"> <input type="checkbox"/> PID Type: RAE Systems ppbRAE 3000 or MiniRAE Lite <input type="checkbox"/> PID Lamp Energy: 10.6 eV <input type="checkbox"/> Calibration Gas: Isobutylene 10 ppmv / 100 ppmv <input type="checkbox"/> FID Type: <input type="checkbox"/> LEL/O₂ Meter <input type="checkbox"/> Others: 	<p>Other Equipment & Gear ²</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 10-lb ABC Fire Extinguisher <input checked="" type="checkbox"/> Caution Tape <input type="checkbox"/> Traffic Cones or Delineators <input type="checkbox"/> Warning Signs or Placards <input type="checkbox"/> Decontamination Equipment <input checked="" type="checkbox"/> First Aid Kit <input type="checkbox"/> Others:

Notes:

1. All direct reading instruments should be calibrated onsite once per day using the appropriate calibration gas standards and in accordance with the manufacturer's instructions.
2. A 10-foot work zone / exclusion zone is required wherever available to control access to heavy equipment and/or hazardous exposure situations. Only authorized persons will be allowed to enter work zone / exclusion zone.

PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS

* Asterisk indicates that the chemical is known to the State of California to cause cancer per the Proposition 65 list of chemicals and the Safe Drinking Water and Toxic Enforcement Act of 1986 (revised December 2, 2005)

- 1) Benzene* – CAS # 71-43-2 (Medium Volatility)
 - a) Colorless to light yellow, flammable liquid with an aromatic odor.
 - b) Routes of exposure: **inhalation, skin adsorption, ingestion** and **skin and/or eye contact**.
 - c) Exposure may irritate the skin, eyes, nose, and respiratory system, giddiness, headache, nausea, fatigue, anorexia, lassitude (weakness or exhaustion), and dermatitis
 - d) Target organs: eyes, skin, respiratory system, blood, CNS, and bone marrow (leukemia)
 - e) Benzene cause cancer (leukemia and probably other kinds) in humans and is easily absorbed through skin
 - f) OSHA PEL for a TWA over an 8-hour period is 1 ppm in air
 - g) OSHA ceiling limit for any 15-minute period is 5 ppm (skin)
 - h) NIOSH REL for a TWA over a 10-hour period is 0.1 ppm
 - i) IDLH concentration is 500 ppm
 - j) LEL = 1.4% UEL = 7.6% BP = 102° F VP = 38 – 300 mm Hg IP = 9.24 eV

- 2) Toluene – CAS # 108-88-3 (Medium Volatility)
 - a) Colorless liquid with sweet, pungent, benzene-like odor. Moderately toxic
 - b) Routes of exposure: **inhalation, skin adsorption, ingestion**, and **skin and/or eye contact**.
 - c) Exposure may cause fatigue, weakness, confusion, euphoria, dizziness, headaches, dilated pupils, lacrimation (discharge of tears), nervousness, insomnia, paresthesia, dilated pupils, muscle fatigue, insomnia, dermatitis, and liver and kidney damage
 - d) Target organs: eyes, skin, respiratory system, CNS, liver, kidneys
 - e) OSHA PEL for a TWA over an 8-hour period is 200 ppm
 - f) OSHA ceiling limit for any 15-minute period is 300 ppm and 500 ppm for any 10-minute maximum peak
 - g) The Cal/OSHA PEL for a TWA over an 8-hour period is 50 ppm and the STEL for any 15-minute period is 150 ppm
 - h) NIOSH REL for a TWA over a 10-hour period is 100 ppm and the STEL for any 15-minute period is 150 ppm
 - i) IDLH concentration is 500 ppm
 - j) LEL = 1.1 % UEL = 7.1% BP = 232° F VP = 21 mm Hg IP = 8.82 eV

- 3) Ethylbenzene* – CAS # 100-41-4 (Low Volatility)
 - a) Colorless liquid with an aromatic odor
 - b) Routes of exposure: **inhalation, ingestion**, and **skin and/or eye contact**.
 - c) Exposure may irritate eyes and mucous membrane and may cause headaches, dermatitis, narcosis and loss of consciousness and/or coma and ethylbenzene is carcinogenic
 - d) Target organs: eyes, skin, respiratory system, CNS
 - e) OSHA and Cal/OSHA PEL for a TWA over an 8-hour period is 100 ppm
 - f) The Cal/OSHA STEL for any 15-minute period is 125 ppm
 - g) The NIOSH REL for a TWA over a 10-hour period is 100 ppm and the STEL for any 15-minute period is 125 ppm
 - h) IDLH concentration is 800 ppm [10% of LEL]
 - i) LEL = 0.8% UEL = 6.7% BP = 102° F VP = 7 mm Hg IP = 8.76 eV

- 4) o-Xylene, m-Xylene, or p-Xylene – CAS #s 95-47-6, 106-42-3 (Low Volatility)
 - a) Colorless liquid with an aromatic odor
 - b) Routes of exposure: **inhalation, skin adsorption, ingestion** and **skin and/or eye contact**
 - c) Exposure may irritate eyes nose and throat and may cause dizziness, excitement, drowsiness, in-coordination, corneal vacuolization, anorexia, nausea, vomiting, and dermatitis
 - d) Target organs: eyes, skin, respiratory system, CNS, gastrointestinal tract, blood, liver, and kidneys
 - e) OSHA and Cal/OSHA PEL for a TWA over an 8-hour period is for a time weighted average is 100 ppm

- f) The Cal/OSHA STEL for any 15-minute period is 150 ppm
- g) The Cal/OSHA ceiling limit is 300 ppm
- h) The NIOSH REL for a TWA over a 10-hour period is 100 ppm and the STEL for any 15-minute period is 150 ppm
- i) IDLH concentration is 900 ppm
- j) LEL = 1.1% UEL = 7% BP = 292° F, 282° F, and 281° F VP = 7 – 9 mm Hg IP = 8.56 eV
- 5) Gasoline* – CAS # 8006-61-9 (*High Volatility*)
- a) A complex mixture of volatile hydrocarbons (paraffins, cycloparaffins, and aromatics). Clear liquid with a strong, characteristic aromatic odor. Highly volatile, extremely flammable, and moderately toxic
- b) Routes of exposure: **inhalation, skin adsorption, ingestion** and **skin and/or eye contact**
- c) Inhalation of vapors can cause depression of the central nervous system with symptoms such as headache, dizziness, nausea and loss of coordination. Skin contact can cause defatting of the skin, skin irritation and dermatitis. Benzene and other highly toxic substances are major constituents of gasoline
- d) Target organs: eyes, skin, respiratory system, CNS, liver, kidneys
- e) Causes liver and kidney cancer in rats but possibly not in humans
- f) The Cal/OSHA PEL for a TWA over an 8-hour period is 300 ppm
- g) The Cal/OSHA STEL for a 15-minute period is 500 ppm
- h) IDLH concentration is 800 ppm [10% of LEL]
- i) LEL = 1.4% UEL = 7.6% BP = 102° F VP = 38 – 300 mm Hg IP = ?
- 6) Diesel* – CAS # na (*Low Volatility*)
- a) Colorless to dark brown, combustible liquid with an aromatic odor
- b) Routes of exposure: **inhalation, ingestion, skin and/or eye contact**
- c) Exposure may irritate the skin and inhalation of vapors may depress the central nervous system, increasing reaction times, and decreasing pulse rate and blood pressure
- d) Target organs: eyes, skin, respiratory system
- e) Occupational exposure limit is 5 ppm (in vapor)
- f) LEL = na UEL = na BP = 390 – 600° F VP = 2 mm Hg IP = ?
- 7) Waste Oil* – CAS # na (*Low Volatility*)
- a) Dark brown to black viscous liquid
- b) Routes of exposure: **skin adsorption, ingestion, skin and/or eye contact**, and possibly **inhalation**
- c) Prolonged contact may cause skin irritation and dermatitis
- d) Waste oil may contain metals or toxic and/or carcinogenic constituents from thermal breakdown of the oil and in some cases chlorinated solvents may be present
- e) Cal/OSHA PEL for a TWA over an 8-hour period is 5 ppm (in vapor)
- f) LEL = na UEL = na BP = VP = ~0 mm Hg IP = ?
- 8) Lead – CAS # 7439-92-1 (*No Volatility*)
- a) A heavy ductile soft grey metal
- b) Routes of Exposure: **inhalation, ingestion**, and **skin and/or eye contact**.
- c) Exposure may cause weakness, nausea, lassitude, diarrhea, insomnia, anorexia, inflamed mucous membranes and abdominal pains
- d) Target organs: eyes, gastrointestinal tract, CNS, kidneys, gingival tissue
- e) OSHA PEL for a TWA over a 8-hour period is 0.05 ppm (in vapor)
- f) LEL = na UEL = na BP = 3,164° F VP = 0 mm Hg IP = na

Atmospheric vapor concentrations will be monitored as necessary via a photo-ionization detector (PID) with lamp energy appropriate for the contaminants of interest or equivalent to determine appropriate action levels. The PID will be calibrated

daily by AEI personnel prior to use. Calibration will be performed in accordance with the manufacturer specifications and recorded in a log book kept with the instrument. Ambient breathing space measurements should be collected every 5 to 15 minutes (minimum) during drilling and other field activities.

DECONTAMINATION PROCEDURES [CAL OSHA 8 CCR 5192(k)]

All down-hole soil, soil vapor, and/or groundwater sampling equipment (e.g., split spoons, hand augers, probe rods, discrete samplers, etc.), hand tools, purge pumps, water level indicators, etc. will be decontaminated before, between, and after use with Alconox, Liquinox or an equivalent anionic, phosphate-free detergent solution to reduce the risk of cross-contamination.

Decontamination of all sampling equipment will consist of submerging the equipment in a detergent solution bath and scrubbing it with dedicated brushes. The equipment will then be placed in a rinse bath and agitated. A second rinse bath will be used as needed.

EMPLOYEE TRAINING [CAL OSHA 8 CCR 5192(e)]

All personnel working onsite, must have had at a minimum the required 24 or 40-hour OSHA training for HAZWOPER with current annual 8-hour refresher, which includes the use of respirators and PPE. Annual individualized respirator fit testing is required of all applicable AEI employees working at the site.

During the daily Site Health and Safety Briefing or “Tailgate Safety Meeting”, at a minimum the following should be discussed:

- 1) Scope of work, including personnel project responsibilities.
- 2) A description of the levels of personal protection at the site and the steps taken to select each level.
- 3) Emergency procedures.
- 4) Nature of the known or anticipated hazards, including the location of the Material Safety Data Sheets (MSDS) for the chemicals at the site.
- 5) Review safe work practices and identify any prohibited or forbidden practices.
- 6) No smoking at the job site.

Attendance at the Site Health and Safety Briefing or “Tailgate Safety Meeting” will be mandatory and all personnel coming on-site following the initial daily meeting will be subject to their own Site Health and Safety Briefing prior to entering the site. All personnel will be required to sign the Health and Safety Briefing/Site Orientation Record to signify understanding and adherence to AEI’s HASP.

HAZARD ASSESSMENT

= Applies, or required item(s) available.

= Not Applicable.

HAZARD ASSESSMENT: PHYSICAL HAZARDS AND RELATED CONCERNS [CAL OSHA 8 CCR 5192]

Confined Space Entry (CSE). Confined space entry means the *potentially hazardous* entry into any space which, by design, has limited openings for entry and exit, unfavorable natural ventilation which could contain or produce dangerous air contaminants, and which is not intended for continuous employee occupancy. Confined spaces include but are not limited to storage tanks, compartments of ships, process vessels, pits, silos, vats, degreasers, reaction vessels, boilers, ventilation and exhaust ducts, sewers, tunnels, underground utility vaults, and pipelines. Other environments which must be treated as confined spaces include *test pits, and basements, garages, warehouses and other indoor areas where mechanical (i.e., diesel, propane, gasoline or similarly powered) equipment must be operated for drilling or test pitting purposes.* Confined space entry should be allowed only when absolutely necessary, and then only when all requirements of AEI's Confined Space Entry Control Program, and/or CSE Program Supplement for Indoor Drilling (and Similar Operations) and/or Trench and Excavation Safety and Health Guide (and CSE Program Supplement), contained in the Health and Safety Program Manual, have been satisfied.

Construction Hazards, Drill Rigs, Backhoes, etc. The use of drill rigs, backhoes and other heavy equipment represent potentially serious construction hazards. Whenever such equipment is used, personnel in the vicinity should be limited to those who must be there to complete their assigned duties. All personnel must avoid standing within the turning radius of the equipment or below any suspended load. Job sites must be kept as clean, orderly and sanitary as possible. When water is used, care must be taken to avoid creating muddy or slippery conditions.

Never turn your back to operating machinery. Never wear loose clothing jewelry, hair or other personal items around rotating equipment or other equipment that could may catch or ensnare loose clothing, jewelry, hair or other personal items. Always stand far enough away from operating machinery to prevent accident contact which may result from mechanical or human error.

Additionally, the following basic personal protective measures must be observed: **Hardhats** must be worn to protect against bumps or falling objects. **Safety glasses** must be worn when necessary to protect against chemicals or other hazards. **Steel-toed safety shoes or boots** (ANSI Z41 or ASTM F2413 approved) are also required. The shoes must be chemically resistant or protected with appropriately selected boots/coverings where necessary. Unless otherwise specified, **Safety Vest** must be worn at all time. Gloves are also required whenever necessary to protect against hazardous contact, cuts, abrasions or other possible skin hazards.

Drums and Buried Drums. As a precautionary measure, personnel must assume that *labeled and unlabeled drums* encountered during field activities contain hazardous materials until their contents can be confirmed and characterized. Personnel should recognize that drums are frequently mislabeled, particularly drums that are reused.

Only trained and authorized personnel should be allowed to perform drum handling. Prior to any handling, drums must be visually inspected to gain as much information as possible about their contents. Trained field personnel must look for signs of deterioration such as corrosion, rust or leaks, and for signs that the drum is under pressure such as swelling or bulging. Drum-type and drumhead configuration may provide the observer with information about the type of material inside, (i.e., a removable lid is designed to contain solids, while the presence of a bung indicates liquid storage).

Although not usually anticipated, buried drums can be encountered when digging test pits. Therefore, the following provisions must be observed if drums are encountered. Machine excavation (i.e., backhoe) should cease immediately anytime a drum is encountered. The appropriate management personnel should be notified immediately. All AEI personnel should be instructed to immediately leave the work area.

Fire and Explosion. The possibility of flammable materials being encountered during field activities must be recognized and the appropriate steps necessary to minimize fire and explosion must be observed. This includes situations where *excessive organic vapors or free product* are encountered. When this occurs, monitoring with a combustible gas indicator (CGI), is required.

Excessive organic vapors, for the purposes of initiating the use of a CGI, are defined as sustained readings (i.e., continuous for at least five minutes) at or above 250 units or as an instantaneous reading at or above 1,000 units on the PID or FID, in close proximity (within 1 foot or less) of the borehole, test pit, sampling location or other area of potential exposure.

In situations where hexane, methanol are needed for field activities, the following precautions must be observed: keep flammable and combustible materials away from heat, sparks and open flames; do not smoke around flammable or combustible materials; and keep all flammable and combustible liquids in approved and properly labeled safety containers.

Landfill/Methane Hazards. Fire and explosion should be regarded as one of, if not the, most significant potential hazards associated with drilling operations and other intrusive work conducted at a landfill. Accordingly, all sources of ignition must be fully controlled. Failure to control ignition sources could result in fire, explosion and pose a serious threat to life and health. Control methods may include forced ventilation and/or filling the borehole with enough water to inhibit the release of methane and other gases which would otherwise escape through the top of the borehole.

If forced (mechanical) ventilation is to be used, all such equipment must be approved for Class I, Division I hazardous atmospheres. The blower must be positioned to blow across the top of the borehole so that gases and vapors may be diluted as they exit the borehole. Do not attempt to suck out the gases or vapors. Blowers, all other mechanical equipment, and tools which could release sparks or static electricity must be bonded and grounded.

Regardless of the gas/vapor control method used, the atmosphere surrounding the borehole must be frequently monitored using direct reading instruments approved for Class I, Division I hazardous atmospheres. Monitoring should be conducted within 1 to 2 feet of the top of the borehole. Do not insert sampling devices into the borehole. Never approach the auger or drill shaft while it is in operation.

Regardless of actual instrument readings, if all sources of ignition can not be controlled, operations should be immediately shut down if readings equal or exceed 10% of LEL and the area evacuated until ignition sources have been eliminated. Ignition sources include, but are not limited to: smoking, static electricity, lighting, open flames, spontaneously ignitable substances, frictional heat or sparks, hot surfaces, radiant heat, electrical sparks, stray currents, cutting and welding, and ovens, furnaces and heating equipment.

- Heat and Cold Stress.** Overexposure to temperature extremes can represent significant risks to personnel if simple precautions are not observed. Typical control measures designed to prevent **heat stress** include dressing properly, drinking plenty of the right fluids, and establishing an appropriate work/break regimen. Typical control measures designed to prevent **cold stress** also include dressing properly, and establishing an appropriate work/break regimen.
- Moving Vehicles, Traffic Safety.** All vehicular traffic routes which could impact worker safety must be identified and communicated. Whenever necessary, barriers or other methods must be established to prevent injury from moving vehicles. This is particularly important when field activities are conducted in parking lots, driveways, ramps or roadways
- Noise.** Noise exposure can be affected by many factors including the number and types of noise sources (continuous vs. intermittent or impact), and the proximity to noise intensifying structures such walls or building which cause noise to bounce back or echo. The single most important factor effecting total noise exposure is distance from the source. The closer one is to the source the louder the noise. The operation of a drill rig, backhoe or other mechanical equipment can be sources of significant noise exposure. In order to reduce the exposure to this noise, personnel working in areas of excessive noise must use hearing protectors (ear plugs or ear muffs).

Rule-of-Thumb: Wherever actual data from sound level meters or noise dosimeters is unavailable and it is necessary to raise one's voice above a normal conversational level to communicate with others within 3 to 5 feet away, hearing protection should be worn.

- Overhead Utilities and Hazards.** Overhead hazards can include low hanging structures which can cause injury due to bumping into them. Other overhead hazards include *falling objects, suspended loads, swinging loads and rotating equipment*. Hardhats must be worn by personnel in areas were these types of physical hazards may be encountered. Barriers or other methods must also be used to exclude personnel from these areas were appropriate. Electrical wires are another significant overhead hazard. According to OSHA (29 CFR 1926.550), *the minimum clearance which must be maintained from overhead electrical wires is 10 feet from an electrical source rated \leq 50 kV. Sources rated $>$ 50 kV require a minimum clearance of 10 feet plus 0.4 inch per kV above 50 kV.*
- Pedestrian Traffic.** The uncontrolled presence of pedestrians on a drilling or excavation site can be hazardous to both pedestrians and site workers. The site should be surveyed to determine if, when and where pedestrian may gain access. This includes walkways, parking lots, gates and doorways. Barriers or caution tape should be used to exclude all pedestrian traffic. *Exclusion of pedestrian traffic is intended to prevent injury to the pedestrians and eliminate distractions which could cause injury to AEI personnel or other site workers.*
- Test Pit and/or other Excavations.** All provisions of the OSHA trenching and excavation standard (29 CFR 1926.650-652) must be followed during excavation activities. This includes *all test pit excavation and sampling activities*. The estimated location of utility installations, such as sewer, telephone, electric, water lines and other underground installations that may reasonably be expected to be encountered during excavation work, must be determined prior to opening an excavation.

A ladder or similar means of egress must be located in excavations greater than 4 feet in depth so as to require no more than 25 feet of lateral travel for employees. *No person should be allowed to enter an excavation greater than 5 feet in depth unless the walls of the excavation have been protected using an approved shield (trench box), an approved shoring system, or the walls have been sloped back to an angle of 34 degrees, and the excavation is free of accumulated water.* If personnel enter an excavation, the spoils pile and all materials must be placed at least 2 feet from the edge of the excavation to prevent the materials from rolling into the excavation. *Personnel must remain at least 2 feet away from the edge of the excavation at all times.* Upon completion of a test pit exploration, the excavation should be backfilled and graded. Excavation should never be left open unless absolutely necessary, and then only with proper barricading and controls to prevent accidental injury.

- Underground Utilities and Hazards.** The identification of underground storage tanks (USTs), pipes, utilities and other underground hazards is critically important prior to all drilling, excavating and other intrusive activities. In accordance with OSHA 29 CFR 1926.650, *the estimated location of utility installations, such as sewer, telephone, electric, water lines and other underground installations that may reasonably be expected to be encountered during excavation work, must be determined prior to opening an excavation.* The same requirements apply to drilling operations and the use of soil-gas probes. Where public utilities may exist, the utility agencies or operators must be contacted directly or through a utility-sponsored service such as *Dig-Safe*. Where other underground hazards may exist, reasonable attempts must be made to identify their locations as well. *Failure to identify underground hazards can lead to fire, explosion, flooding, electrocution or other life threatening accidents.*

- Water Hazards and Boat Sampling.** The collection of water or sediment samples on or immediately adjacent to a body of water can pose significant hazards. In addition to the slip, trip and fall hazards associated with wet surfaces, the potential for drowning accidents must be recognized. These hazards can be intensified by the use of some PPE, particularly if respiratory protection is worn.

HAZARD ASSESSMENT: CHEMICAL HAZARDS AND RELATED CONCERNS [CAL OSHA 8 CCR 5192]

- Chemicals Subject to OSHA Hazard Communication.** All chemicals used in field activities such as solvents, reagents, decontamination solutions, or any other hazardous chemical must be accompanied by the required labels, Material Safety Data Sheets (MSDS), and employee training documentation (OSHA 1910.1200). For additional information refer to **AEI's Hazard Communication Program** contained in the Health and Safety Program manual.

- Asbestos.** Disturbance of building materials in buildings built prior to 1980 must be evaluated for the presence of asbestos-containing materials by an accredited AEI inspector. The inspection and/or removal of asbestos-based or asbestos-containing building materials is regulated by some major cities and several states. Regulations require individuals who conduct building inspections for the presence of asbestos or collect samples of asbestos containing materials to be licensed or certified. AEI employees must determine the applicability of these regulations prior to any activities involving asbestos. The primary health effects of asbestos exposure include asbestosis (a scarring of the lungs), lung cancer, mesothelioma and other forms of cancer. Exposure to asbestos is regulated by a comprehensive OSHA standard (29 CFR 1910.1001).

- BTEX Compounds.** Exposure to the vapors of **benzene, ethyl benzene, toluene** and **xylenes** above their respective permissible exposure limits (PELs), as defined by the Occupational Safety and Health Administration (OSHA), may produce irritation of the mucous membranes of the upper respiratory tract, nose and mouth. Overexposure may also result in the depression of the central nervous system. Symptoms of such exposure include drowsiness, headache, fatigue and drunken-like behavior. Benzene has been determined to be carcinogenic, targeting blood-forming organs and bone marrow. The odor threshold for benzene is higher than the PEL and employees may be overexposed to benzene without sensing its presence, therefore, detector tubes must be utilized to evaluate airborne concentrations.

The vapor pressures of these compounds are high enough to generate significant quantities of airborne vapor. On sites where high concentrations of these compounds are present, a potential inhalation hazard to the field team during subsurface investigations can result. However, if the site is open and the anticipated quantities of BTEX contamination are small (i.e., part per million concentrations in the soil or groundwater), overexposure potential will also be small.

- Carbon Monoxide.** Carbon monoxide (CO) is a gas usually formed by the incomplete combustion of various fuels. Welding, cutting and the operation internal combustion engines can produce significant quantities of CO. Amounts of CO can quickly rise to hazardous levels in poorly ventilated areas. CO is odorless and colorless. It cannot be detected without appropriate monitoring equipment. LEL/O₂ meters and H-Nu/photoionizing detectors are not appropriate for the detection of CO. A direct reading instrument, calibrated for CO, should be used. Common symptoms of overexposure include pounding of the heart, a dull headache, flashes before the eyes, dizziness, ringing in the ears and nausea. These symptoms must not be relied upon in place of an appropriately calibrated monitoring instrument. Exposures should not exceed 15 ppm. Exposures above 15 ppm require the use of supplied air respirators. Air purifying respirators are not approved for protection against CO.

- Chlorinated Volatile Organic Compounds.** Exposure to the vapors of many chlorinated organic compounds such as vinyl chloride, tetrachloroethene, 1,1,1-trichloroethane, trichloroethene and 1,2-dichloroethene above their respective permissible exposure limits (PELs) will result in similar symptoms. The actual PELs as set by the Occupational Safety and Health Administration (OSHA) vary depending on the specific compound.

Overexposure to the vapor of these compounds can cause irritation of the eyes, nose and throat. The liquid if splashed in the eyes, may cause burning irritation and damage. Repeated or prolonged skin contact with the liquid may cause dermatitis. Acute overexposure to chlorinated hydrocarbons depresses the central nervous system exhibiting such symptoms as drowsiness, dizziness, headache, blurred vision, in-coordination, mental confusion, flushed skin, tremors, nausea, vomiting, fatigue and cardiac arrhythmia. Alcohol may make symptoms of overexposure worse. If alcohol has been consumed, the overexposed worker may become flushed. Some of these compounds are considered to be potential human carcinogens. Exposure to *vinyl chloride* is regulated by a comprehensive OSHA standard (29 CFR 1910.1017).

- Chromium Compounds.** Hexavalent chromium compounds, upon contact with the skin can cause ulceration and possibly an allergic reaction. Inhalation of hexavalent chromium dusts is irritating and corrosive to the mucous membranes of the upper respiratory tract. Chrome ulcers and chrome dermatitis are common occupational health effects from prolonged and repeated exposure to hexavalent chromium compounds. Acute exposures to hexavalent chromium dusts may cause coughing or wheezing, pain on deep inspiration, tearing, inflammation of the conjunctiva, nasal itch and soreness or ulceration of the nasal septum. Certain forms of hexavalent chromium have been found to cause increased respiratory cancer among workers.

Trivalent chromium compounds (chromic oxide) are generally considered to be of lower toxicity, although dermatitis may occur as a result of direct handling.

- Cutting Oils.** Cutting oils may produce a condition known as "cutting oil acne," a specific dermatosis associated with prolonged and repeated direct contact. Other problems associated with continued occupational exposure to cutting fluids include allergic skin sensitization, folliculitis and squamous cell carcinoma, due to the presence of nitrosamines.

- Fuel Oil.** See Petroleum Hydrocarbons (PHC)
- Gasoline.** See BTEX Compounds, and Tetraethyl and Tetramethyl Lead.
- Herbicides.** Some of the commonly used herbicides present a low toxicity to man. However, other herbicides pose more serious problems. Organophosphorus and carbamate herbicides, if inhaled or ingested can interfere with the functioning of the central nervous system. Many herbicides can be readily absorbed through the skin to cause systemic effects. In addition to being absorbed through the skin, many herbicides, upon contact with the skin, may cause discoloring, skin irritation or dermatitis. Contaminants of commercial preparations of chlorinated phenoxy herbicides such as 2,4,5-T include 2,3,7,8-tetrachlorodibenzo-p-dioxin (dioxin). Dioxin is a known mutagen and a suspect carcinogen.
- Hydrogen Sulfide (H₂S).** Hydrogen sulfide, characterized by its "rotten egg" odor, is produced by the decomposition of sulfur-containing organic matter. It is found in many of the same areas where methane is found such as landfills, swamps, sewers and sewer treatment facilities. An important characteristic of H₂S is its ability to cause a decrease in ones ability to detect its presence by smell. So although one may no longer be able to smell it, it could still be present in harmful concentrations.

The symptoms of over exposure include headache, dizziness, staggering and nausea. Severe over exposure can cause respiratory failure, coma, and death. The current OSHA PEL is 10 ppm as an 8-hour TWA. The ACGIH TLV is the same.
- Lead Paint.** The inspection and/or removal, sanding, grinding, etc. of lead-based or lead-containing paints is now strictly regulated by OSHA. States may require individuals who conduct lead paint inspections or collect samples of lead paint to be licensed or certified. AEI employees must determine the applicability of these regulations prior to any activities involving lead paint. For additional health information, see Metal Compounds.
- Metal Compounds.** Overexposure to metal compounds has been associated with a variety of local and systemic health hazards, both acute and chronic in nature, with chronic effects being most significant. Direct contact with the dusts of some metal compounds can result in contact or allergic dermatitis. Repeated contact with arsenic compounds may result in hyperpigmentation. Cases of skin cancer due to the trivalent inorganic arsenic compounds have been documented. The moist mucous membranes, particularly the conjunctivae, are most sensitive to the irritating effects of arsenic. Copper particles embedded in the eye result in a pronounced foreign body reaction with a characteristic discoloration of eye tissue.

Inhalation of copper and zinc dusts and fumes above their established PELs may result in flu-like symptoms known as "metal fume fever." Prolonged and repeated inhalation of the dusts of inorganic arsenic compounds above the established PEL may result in weakness, loss of appetite, a sense of heaviness in the stomach and vomiting. Respiratory problems such as cough, hoarseness and chest pain usually precede the gastrointestinal problems. Chronic overexposure to the dusts of inorganic arsenic may result in lung cancer.

The early symptoms of lead poisoning are usually nonspecific. Symptoms include sleep disturbances, decreased physical fitness, headache, decreased appetite and abdominal pains. Chronic overexposure may result in severe colic and severe abdominal cramping. The central nervous system (CNS) may also be adversely effected when lead is either inhaled or ingested in large quantities for extended periods of time. The peripheral nerve is usually affected. "Wrist drop" is peculiar to such CNS damage. Lead has also been characterized as a male and female reproductive toxin as well as a fetotoxin. Exposure to lead (Pb) is regulated by a comprehensive OSHA standard (29 CFR 1910.1025).
- Methane.** Methane is an odorless, colorless, tasteless, gas that cannot be detected by an H-Nu or similar photoionizing detector (PID). When present in high concentrations in air, methane acts primarily as a simple asphyxiant without other significant physiologic effects. Simple asphyxiants dilute or displace oxygen below that required to maintain blood levels sufficient for normal tissue respiration.

Methane has a lower explosive limit (LEL) of 5 percent and an upper explosive limit (UEL) of 15 percent. The LEL of a substance is the minimum concentration of gas or vapor in air below which the substance will not burn when exposed to a source of ignition. This concentration is expressed in percent by volume. Below this concentration, the mixture is "too lean" to burn or explode. The UEL of a substance is the maximum concentration of gas or vapor in air above which the substance will not burn when exposed to a source of ignition. Above this concentration, the mixture is "too rich" to burn or explode. The explosive range is the range of concentrations between the LEL and UEL where the gas-air mixture will support combustion. For methane this range is 5 to 15 percent.
- MTBE.** Methyl tertiary butyl ether (MTBE) is a volatile, flammable and colorless liquid that is relatively soluble in water. MTBE has a typical odor reminiscent of diethyl ether, leading to unpleasant taste and odor in water. MTBE is almost exclusively used as a fuel component in motor gasoline. The EPA has concluded that available data are not adequate to estimate potential health risks of MTBE at low exposure levels in drinking water, but that the data support the conclusion that MTBE is a potential human carcinogen at high doses. The ACGIH has recommended an exposure limit of 40 parts of MTBE per million parts of air (40 ppm) for an 8-hour workday, 40-hour workweek.
- Pesticides.** Pesticides can be grouped into three major categories: organophosphates, carbonate and chlorinated hydrocarbons. The actual PELs as set by the OSHA, vary depending on the specific compound. Organophosphates, including Diazinon, Malathion and Parathion, are quickly absorbed into the body by inhalation, ingestion and direct skin contact. The symptoms of exposure include headache, fatigue, dizziness, blurred vision, sweating, cramps, nausea and vomiting. More severe symptoms can include tightness of the chest, muscle spasms, seizures and unconsciousness. It should also be noted that the Malathion and Parathion PELs both carry the *Skin* notation,

indicating that these compounds adversely effect or penetrate the skin. OSHA specifies that skin exposure to substances carrying this designation be prevent or reduced through the use of the appropriate PPE.

Chlorinated Hydrocarbons such as Chlordane, DDT and Heptachlor can cause dizziness, nausea, abdominal pain and vomiting. The more severe symptoms include epileptic like seizures, rapid heart beat, coma and death. These compounds also carry the OSHA *Skin* notation. The symptoms of exposure to carbamate such Carbaryl (also known as Sevin) are similar to those described for the organophosphates. However, the OSHA exposure limit for Carbaryl *does not* carry the Skin notation.

Petroleum Hydrocarbons (PHCs). Petroleum Hydrocarbons such as fuel oil are generally considered to be of low toxicity. Recommended airborne exposure limits have not been established for these vapors. However, inhalation of low concentrations of the vapor may cause mucous membrane irritation. Inhalation of high concentrations of the vapor may cause pulmonary edema. Repeated or prolonged direct skin contact with the oil may produce skin irritation as a result of defatting. Protective measures, such as the wearing of chemically resistant gloves, to minimize contact are addressed elsewhere in this plan. Because of the relatively low vapor pressures associated with PHCs, an inhalation hazard in the outdoor environment is not likely.

Polychlorinated Biphenyls (PCBs). Prolonged skin contact with PCBs may cause the formation of comedones, sebaceous cysts, and/or pustules (a condition known as chloracne). PCBs are considered to be suspect carcinogens and may also cause reproductive damage.

The OSHA permissible exposure limits (PELs) for PCBs are as follows:

<i>Compound</i>	<i>PEL (8-hour time-weighted average)</i>
Chlorodiphenyl (42% Chlorine)	1 mg/m ³ -Skin
Chlorodiphenyl (54% Chlorine)	0.5 mg/m ³ -Skin

It should be noted that PCBs have extremely low vapor pressures (0.001 mm Hg @ 42% Chlorine and 0.00008 mm Hg @ 54% Chlorine). This makes it unlikely that any significant vapor concentration (i.e., exposures above the OSHA PEL) will be created in the ambient environment. This minimizes the potential for any health hazards to arise due to inhalation unless the source is heated or generates an airborne mist. If generated, vapor or mists above the PEL may cause irritation of the eyes, nose, and throat. The exposure limits noted above are considered low enough to prevent systemic effects but it is not known if these levels will prevent local effects. It should also be noted that both PELs carry the *Skin* notation, indicating that these compounds adversely effect or penetrate the skin. OSHA specifies that skin exposure to substances carrying this designation be prevented or reduced through the use of the appropriate personal protective equipment (PPE).

Polycyclic Aromatic Hydrocarbons (PAHs). Due to the relatively low vapor pressure of PAH compounds, vapor hazards at ambient temperatures are not expected to occur. However, if site conditions are dry, the generation of contaminated dusts may pose a potential inhalation hazard. Therefore dust levels should be controlled with wetting if necessary. Repeated contact with certain PAH compounds have been associated with the development of skin cancer. Contact of PAH compounds with the skin may cause photosensitization of the skin, producing skin burns after subsequent exposure to ultraviolet radiation. Protective measures, such as the wearing of chemically resistant gloves, are appropriate when handling PAH contaminated materials.

Tetraethyl and Tetramethyl Lead. Both compounds are used as anti-knock ingredients in gasoline. The inhalation of tetraethyl lead dusts may result in irritation of the respiratory tract. This dust, when in contact with moist skin or eye membranes, may cause itching, burning and transient redness.

The direct absorption of a sufficient quantity of tetraethyl lead, whether briefly at a high rate, or for prolonged periods at a low rate, may cause acute intoxication of the central nervous system. Mild degrees of intoxication may cause headache, anxiety, insomnia, nervous excitation and minor gastrointestinal disturbances.

Volatile Organic Compounds (VOCs). See BTEX compounds and Chlorinated Volatile Organic Compounds.

Waste Oil. See Petroleum Hydrocarbons (PHCs) and Cutting Oil.

HAZARD ASSESSMENT: BIOLOGICAL HAZARDS AND RELATED CONCERNS [CAL OSHA 8 CCR 5192]

Insects. Insects represent significant sources (vectors) of disease transmission. Therefore, precautions to avoid or minimize potential contact should be considered prior to all field activities. Disease or harmful effects can be transmitted through bites, stings or through direct contact with insects or through ingestion of foods contaminated by certain insects. Examples of disease transmitted by insect bites include encephalitis and malaria from contaminated mosquitoes, lyme disease and spotted fever from contaminated ticks. Stinging insects, such as bees and wasps, are prevalent throughout the country, particularly during the warmer months. The stings of these insects can be painful, and cause serious allergic reactions to some individuals.

Lyme Disease. Lyme disease is an infection caused by the bite of certain ticks, primarily deer, dog and wood ticks. The symptoms of Lyme disease usually start out as a skin rash then progress to more serious symptoms. The more serious symptoms can include lesions, headaches, arthritis and permanent damage to the neurological system. If detected early the disease can be treated successfully with antibiotics. The following steps are recommended for prevention of lyme disease and other diseases transmitted by ticks: a) Beware of tall grass, bushes, woods and other areas where ticks may live; b) Wear good shoes, long pants tucked into socks, a shirt with a snug collar,

good cuffs around the wrists and tails tucked into the pants. Insect/tick repellents may also be useful; c) Carefully monitor for the presence of ticks. Carefully inspect clothes and skin when undressing. If a tick is attached to the skin it should be removed with fine tipped tweezers. You should be alert for early symptoms over the next month or so. If you suspect that you have been bitten by a tick you should contact a physician for medical advice.

- Medical Wastes and Bloodborne Diseases.** Any field activity where exposure to medical wastes or other sources of bloodborne pathogens can be reasonably anticipated must be conducted in accordance with the OSHA (29 CFR 1910.1030) *Bloodborne Pathogens* standard. According to the OSHA definition, Bloodborne Pathogens means pathogenic microorganisms that are present in human blood and can cause disease in humans. These pathogens include but are not limited to *hepatitis B virus (HBV)* and *human immunodeficiency virus (HIV)*. Wherever there is a potential for employee skin, eye, mucous membrane, or parenteral (skin or membrane piercing) contact with blood or other potentially infectious sources, *employers must develop a Written Exposure Control Plan*.
- Poisonous Plants.** The possible presence of poisonous plants should be anticipated for field activities in wooded or heavily vegetated areas. *Poison ivy* is a climbing plant with alternate green to red leaves (arranged in threes) and white berries. *Poison oak* is similar to poison ivy and *sumac* but its leaves are oak-like in form. The leaves of these poisonous plants produce an irritating oil which causes an intensely itching skin rash and characteristic blister-like lesions. Contact with these plants should be avoided.
- Rats, Snakes and Other Vermin.** Certain animals, particularly those that feed on garbage and other wastes, can represent significant sources (vectors) of disease transmission. Therefore, precautions to avoid or minimize potential contact with (biting) animals (such as rats) or animal waste (such as pigeon droppings) should be considered prior to all field activities. Rats, snakes and other wild animals can inflict painful bites. The bites can be poisonous (as in the case of some snakes), or disease causing (as in the case of rabid animals). Avoidance of these animals is the best protection.
- Wastewater and Sewage.** Sewage and wastewater contaminated with raw, untreated sewage can represent significant sources of bacterial, viral or fungal contamination. Adverse effects, due to contact, can range from mild skin reactions or rashes to life threatening diseases. Diseases are easily transmitted by accidental ingestion or through skin contact, particularly if the skin is broken. Avoidance of direct contact and good personal hygiene are the best protection from these hazards.

Health and Safety Briefing/Site Orientation Record

This is to verify that I, the undersigned, have been provided with a site (orientation) briefing regarding the safety and health considerations at 1630 Park Street Alameda, CA. I agree to abide by my employer's site-specific safety and health plan and other safety or health requirements applicable to the site.

<u>NAME (PRINT)</u>	<u>SIGNATURE</u>	<u>COMPANY</u>	<u>DATE</u>

Site (orientation) Briefing Conducted By: _____ Date: _____

Subcontractor's Statement of Understanding Regarding Health and Safety Responsibilities

Project Name: 1630 Park Street Alameda, CA

Project Number: 298931

In accordance with generally accepted practices, each Subcontractor engaged by AEI is responsible for all matters relating to the health and safety of its personnel and equipment in performance of the work. This includes recognition of the potential health and safety hazards associated with the work. AEI will establish a health and safety plan (HASP) or program applicable to its own employees and its own activities on site. AEI will make its HASP available to each subcontractor for informational purposes only. Each subcontractor must establish a HASP applicable to its own employees and its own activities on site.

Subcontractors who use AEI's HASP as a model for their own HASP are responsible for determining its adequacy and applicability to its own employees and its own activities on site. Subcontractors must establish their own HASP applicable to subcontractor employees and/or activities, even if modeled after AEI's HASP and deliver this HASP in clear written form to AEI prior to the initiation of on-site activities. Submittal of the subcontractor's HASP to AEI will be for informational purposes only. Review of the subcontractor's HASP by AEI shall in no way constitute approval or endorsement by AEI of the subcontractor's HASP. It is understood that protective measures specified in the Subcontractor's HASP are minimum requirements for the work.

Subcontractor warrants that all its employees that are permitted to engage in operations that could expose them to hazardous wastes, hazardous substances, or safety or health hazards have obtained the necessary health and safety training and medical surveillance as specified in the applicable provisions of OSHA:

1926.59 Hazard Communication,
1926.52 Occupational Noise Exposure,
1926.103 Respiratory Protection,
1926.65 Hazardous Waste Operations and Emergency Response;

as well as any other applicable portion of the OSHA General Industry (29 CFR 1910) and Construction Industry (29 CFR 1926) Standards. Subcontractor shall provide AEI with evidence of the necessary certification before beginning hazardous waste work subject to OSHA 1926.65 on the project site.

Should AEI become aware of subcontractor activities on site which appear to violate OSHA or other applicable safety regulations or otherwise pose an immediate and serious threat to the safety of AEI employees, subcontractor employees, other individuals on site, or members of the public, AEI may notify the subcontractor verbally and/or in writing regarding the need for corrective action. Failure to comply with either general safety practices or health and safety practices as described above may be grounds for breach and prompt contract termination. The safety requirements of the work as described above apply without regard to time, place, or presence of a AEI representative.

THE PRESENCE OF AEI PERSONNEL ON THE SITE CARRYING OUT PROFESSIONAL ACTIVITIES DOES NOT MEAN THAT AEI UNDERTAKES TO OVERSEE THE SUBCONTRACTOR'S COMPLIANCE RESPONSIBILITIES.

The undersigned agrees that he is authorized to execute this statement of understanding on behalf of their firm:

Firm: _____

Name (Print): _____ Title: _____

Signature: _____ Date: _____

MISCELLANEOUS SITE CONTROL PROCEDURES

PLAN SIGN-OFF

(Please sign and date. See page 3 for Acknowledgement and Approval scope.)

SSO: _____

SS/PM: _____

H&S Representative: _____

Attach additional information if required

- 1) Directions to the closest emergency room
- 2) Refer to the “NIOSH Pocket Guide to Chemical Hazards” for more information regarding the odor thresholds, potential exposure pathways, and acute and chronic health effects of the suspected or known chemical hazards at the site.

APPENDIX C:
TRANSPORTATION AND DISPOSAL
DOCUMENTS

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number CAC002670125	2. Page 1 of	3. Emergency Response Phone 510-735-1303	4. Manifest Tracking Number 002135901 JJK
---	--	--------------	---	---

5. Generator's Name and Mailing Address FOLEY STREET INVESTMENTS LLC 7355 CLEMENT AVE ALAMEDA, CA 94501		Generator's Site Address (if different from mailing address) 1630 PARK ST ALAMEDA, CA 94501	
Generator's Phone 510-523-1925			

6. Transporter's Company Name EIGHTEEN TRUCKING CO	U.S. EPA ID Number CAR000194200
--	------------------------------------

7. Transporter's Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address ECOLOGY CONTROL INDUSTRIES 255 PARR BOULEVARD RICHMOND, CA 94801		U.S. EPA ID Number CA0002498300
---	--	------------------------------------

9a. Unit	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number) and Packing Group (if any)	10. Containers		11. Total Quantity	12. Unit Volume	13. Waste Code
		No.	Type			
1	NON-FLAMMABLE HAZARDOUS WASTE SOLID (EMPTY STORAGE TANK)	001	TP	15000	P	512
2				0		
3				0		
4				0		

14. Special Handling Instructions and Additional Information ECI JOB #5214204 IF 34260
--

10. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this consignment are fully and accurately described above by the proper shipping name, and are packaged, packaged, marked and labeled in accordance with applicable international and national governmental regulations. If a special permit and/or a special label is required, I certify that the manifest and the consignment conform to the terms of the attached EPA Acknowledgment of Closure. I certify that the waste manifest and manifest identifies 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 Official Printed Name Joseph Fermerlian	Signature <i>Joseph Fermerlian</i>	Month 11	Day 22	Year 11
---	---------------------------------------	--------------------	------------------	-------------------

11. Importer's Name <input type="checkbox"/> Import to U.S.	<input type="checkbox"/> Export from U.S.	Port of entry/exit Date leaving U.S.:
--	---	--

17. Transporter's Acknowledgment of Receipt of Materials		Month	Day	Year
Transporter's Official Printed Name James Martinez	Signature <i>James Martinez</i>	11	22	11

16. Discrepancy					
5a. Discrepancy Indicated by State	<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection

18a. Alternate Facility (if Generator)	Manifest Reference Number	U.S. EPA ID Number
--	---------------------------	--------------------

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 4129	2	3	4

20. Designated Facility Owner or Operator Certification of Receipt of Hazardous Materials covered by the manifest except as noted in Item 18b		Month	Day	Year
Printed Name Shawn Spencer	Signature <i>Shawn Spencer</i>	11	22	11

1. Generator ID Number UNIFORM HAZARDOUS WASTE MANIFEST CAC002678125		2. Page 1 of	3. Emergency Response Phone 510-235-1393	4. Manifest Tracking Number 002135900 JJK		
5. Generator's Name and Mailing Address FOLEY STREET INVESTMENTS LLC 2035 CLEMENT AVE ALAMEDA, CA 94501		Generator's Site Address (if different from mailing address) 1630 PARK ST ALAMEDA, CA 94501				
Generator's Phone: 510-523-1975		U.S. EPA ID Number: CA R0081801785 SAR000113075				
6. Transporter 1 Company Name EIGHTEEN TRUCKING CO		U.S. EPA ID Number:				
7. Transporter 2 Company Name		U.S. EPA ID Number:				
8. Designated Facility Name and Site Address ECOLOGY CONTROL INDUSTRIES 255 PARK BOULEVARD RICHMOND, CA 94801		U.S. EPA ID Number: CA AL000460392				
Facility's Phone: 510-235-1393						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group if any)	10. Containers No. Type	11. Total Quantity	12. Unit wt./vol	13. Waste Code
	1	NON-FLAMMABLE HAZARDOUS WASTE SOLID (EMPTY STORAGE TANKS)	003-6072 TP	20000	0	512
	2			0		
	3			0		
	4			0		
14. Special Handling Instructions and Additional Information ECL008 #5214280 TANK # 34250 34250-34280 WEAR PROPER PPE WHEN HANDLING // WEIGHTS AND VOLUMES ARE APPROXIMATE						
15. GENERATOR/SHOFFER'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/boxed, 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 specified 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/Officer's Printed/Typed Name Joseph Fermanian		Signature <i>Joseph Fermanian</i>		on behalf of generator		Month Day Year 11 22 11
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of export/Date leaving U.S.						
TRANSPORTER INTL	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name ROBIN FABRY					
	Signature <i>Robin Fabry</i>		Signature		Month Day Year 11 22 11	
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Pallet/Rejector <input type="checkbox"/> Full Rejection Manifest Reference Number:						
DESIGNATED FACILITY	18b. Alternate Facility for Generator		U.S. EPA ID Number			
	Facility's Phone:					
	18c. Signature of Alternate Facility for Generator					Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, storage, and recycling systems)						
1		H129				
20. Designated Facility Director/Operator: Identification of receipt of hazardous materials covered by the manifest except as noted in Item 18a		Printed/Typed Name Shon Spence		Signature <i>Shon Spence</i>		Month Day Year 11 22 11

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAC 002678125	2. Page 1 of 1	3. Emergency Response Phone 800-376-6008	4. Manifest Tracking Number 003933857 FLE					
5. Generator's Name and Mailing Address 2355 Clement Ave Alameda CA. 94501			Generator's Site Address (if different than mailing address) 1630 PARK ST Alameda CA. 94501							
Generator's Phone: 510-523-1925										
6. Transporter 1 Company Name Excel Environmental Services				U.S. EPA ID Number CAL000209350						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address 209 Riverbank Oil Transfer 863-8181 5300 Claus Rd Bldg 11 Riverbank Ca 95367				U.S. EPA ID Number CAL000190816						
Facility's Phone:										
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
				No.	Type					
	1. NON-RCRA Hazardous Waste Liquid (used oil & water)			001	TT	350	G	221		
	2.									
	3.									
	4.									
14. Special Handling Instructions and Additional Information WEAR GLOVES ERG #171										
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/Offoror's Printed/Typed Name X Joseph Termyjian				Signature <i>Joseph Termyjian</i> on behalf of generator			Month 11	Day 21	Year 11	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
17. Transporter Acknowledgment of Receipt of Materials										
Transporter 1 Printed/Typed Name Tim Liggett				Signature <i>Tim Liggett</i>			Month 11	Day 21	Year 11	
Transporter 2 Printed/Typed Name				Signature			Month	Day	Year	
18. Discrepancy										
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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)										
H141		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	

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number PAC002678125	2. Page 1 of 1	3. Emergency Response Phone 800-376-6008	4. Manifest Tracking Number 003933868 FLE		
5. Generator's Name and Mailing Address JCS CLEANER & AM Foley Street Investments LLC. 1630 PARK ST. ALAMEDA CA - 94501				Generator's Site Address (if different than mailing address) ALAMEDA CA - 94501			
Generator's Phone: 512-523-1425		6. Transporter 1 Company Name Excel Environmental Services		U.S. EPA ID Number CAL000209350			
		7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address 209 Riverbank Oil Transfer 863-8181 5300 Claus Rd Bldg 11 Riverbank Ca 95367				U.S. EPA ID Number CAL000190816			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	NON-RCRA Hazardous Waste Liquid (used oil&water)	001	TT	800	G	221	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information WEAR GLOVES ERG#171							
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/Offoror's Printed/Typed Name X Joseph Fernandez				Signature <i>[Signature]</i>		Month Day Year 11 22 11	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Tim Liggett				Signature <i>[Signature]</i>		Month Day Year 11 22 11	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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. H141		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	

GENERATOR
TRANSPORTER
INTERNATIONAL
FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number <i>CAC000078126</i>		2. Page 1 of <i>1</i>	3. Emergency Response Phone <i>510-923-8884</i>		4. Manifest Tracking Number 001686242 GBF					
		5. Generator's Name and Mailing Address FOLEY STREET INVESTMENTS, LLC 2355 CLEMENT AVE. ALAMEDA, CA 94501					Generator's Site Address (if different than mailing address) 1830 PARK ST ALAMEDA, CA 94501					
6. Transporter 1 Company Name <i>1823-201</i>		U.S. EPA ID Number			7. Transporter 2 Company Name <i>SHOP HAZARDS SOLUTIONS, INC.</i>		U.S. EPA ID Number <i>CA0000648497</i>					
8. Designated Facility Name and Site Address GEM-RANCHO CORDOVA, LLC. 11855 WHITE ROCK RD. RANCHO CORDOVA, CA 95742		U.S. EPA ID Number <i>CAD900884183</i>			Facility's Phone: <i>916-351-0800</i>							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
					No.	Type						
		1.	<i>HQ. WASTE FLAMMABLE LIQUIDS, N.O.S., 3, UN1993, PGII (GASOLINE, BENZENE)(D001, D018)</i>			<i>10</i>	<i>DM</i>	<i>550</i>	<i>G</i>	<i>D001</i>	<i>D018</i>	<i>331</i>
		2.										
		3.										
	4.											
14. Special Handling Instructions and Additional Information <i>PROFILE #GR18111-D1, GASOLINE, <10% WATER APPROPRIATE PROTECTIVE CLOTHING ERG #128</i>												
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/Offero's Printed/Typed Name <i>Joseph Fermanian in behalf of generator</i>					Signature <i>Joseph Fermanian in behalf of generator</i>			Month <i>11</i>	Day <i>29</i>	Year <i>11</i>		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____												
17. Transporter Acknowledgment of Receipt of Materials												
Transporter 1 Printed/Typed Name <i>Steve Man</i>					Signature <i>[Signature]</i>			Month <i>11</i>	Day <i>29</i>	Year <i>11</i>		
Transporter 2 Printed/Typed Name					Signature			Month	Day	Year		
18. Discrepancy												
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection												
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____												
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. _____				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 1												
Printed/Typed Name					Signature							

Notice: State of California requires generator to photocopy and mail to DTSC within 30 days:
P.O. Box 400, Sacramento, CA 95812-0400

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CA0002670125		2. Page 1 of 1		3. Emergency Response Phone 707 541 7000		4. Manifest Tracking Number 008802840 JJK				
		5. Generator's Name and Mailing Address POLY SUPPLY CORPORATION 1430 Park Street, Alameda CA 94501 510 523-1975 X 201						Generator's Site Address (if different than mailing address) 1430 Park Street, Alameda CA 94501				
6. Transporter 1 Company Name B.T.I.		Generator's Phone:						U.S. EPA ID Number CA000358246				
7. Transporter 2 Company Name		U.S. EPA ID Number						U.S. EPA ID Number				
8. Designated Facility Name and Site Address Clean Harbors Bottoms Flow 7500 W. 1st Street Alameda, CA 94505 (510) 762-5000		Facility's Phone:						U.S. EPA ID Number CA0092037374				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1.	Hous, Non RCRA Hazardous Waste Solids, (Lead), H/A				No.	Type	00013	V	611		
	2.											
	3.											
	4.											
14. Special Handling Instructions and Additional Information Prodn # CT1546705B Please wear proper PPE when handling material Sales Order # 7W4088045												
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 Joseph Fermanian								Signature <i>Joseph Fermanian</i>		Month Day Year 1 27 12		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> 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 X Juan Manuel Gutierrez								Signature <i>Juan Manuel Gutierrez</i>		Month Day Year 1 29 12	
Transporter 2 Printed/Typed Name								Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy											
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
	18b. Alternate Facility (or Generator) U.S. EPA ID Number											
	Facility's Phone: Month Day Year											
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 <i>[Signature]</i>		Month Day Year 1 29 12		

NO. 227448

CLEANHARBORS BUTTONWILLOW, LLC WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed in Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

WEIGHMASTER CLEANHARBORS BUTTONWILLOW, LLC

2:25 PM 01/27/12
REG. (93)
INBOUND 82940 lb

4:56 PM 01/27/12

REG. (93)
82940 lb GROSS
40020 lb TARE
42920 lb NET

END DUMP TRANSFER VACUUM VAN
 ROLL OFF - _____ FLAT BED _____

PROFILE NO. <i>C1546095B</i>	GROSS WT. BY: <i>[Signature]</i>	DEPUTY	DATE <i>01/27/12</i>
DISPOSAL LOCATION <i>38-3-19-T-16</i>	TARE WT. BY: <i>[Signature]</i>	DEPUTY	DATE <i>01/27/12</i>
DRIVER'S NAME PRINTED <i>Juan Manuel Gutierrez</i>	WEIGHING LOCATION: 2500 W. LOKERN ROAD BUTTONWILLOW, CA 93206		
DRIVER'S NAME SIGNATURE <i>[Signature]</i>	GENERATOR <i>Foley St.</i>		
TRACTOR NO. <i>99</i>	TRANSPORTER <i>BTI</i>		
TRACTOR LIC. NO. <i>VP70643</i>	MANIFEST NO. <i>C0888284057K</i>		
TRAILER LIC. NO. <i>4JD1975</i>	SERVICE ORDER NO. <i>724088015</i>		
BIN NUMBERS:		BIN TRACKING	

VIS	pH	SUL	CYA	OX	FL	FLASH	20%
<i>+</i>	<i>7.63</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>M</i>	<i>H</i>	

OTHER:

IC	CR	PR	B.W. W.B.	LAB	SOLID BULK	WORK SHEET	LAND TRACK	W.T. SCAN	MAN- SCAN	RE- SCAN

DRUM NUMBER: _____

COMMENTS: *MS*

BIN DROP FULL: _____

MOVE
BIN TO: _____

DATE: _____

BY: _____

APPENDIX D:
ANALYTICAL DOCUMENTATION



Analytical Report

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #298931; Good Chevrolet	Date Sampled: 11/22/11
		Date Received: 11/22/11
	Client Contact: Joseph Fermanian	Date Reported: 11/29/11
	Client P.O.:	Date Completed: 11/29/11

WorkOrder: 1111767

November 29, 2011

Dear Joseph:

Enclosed within are:

- 1) The results of the **11** analyzed samples from your project: **#298931; Good Chevrolet,**
- 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 McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.



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

1111707
CHAIN OF CUSTODY RECORD 72 HR 11-26
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: *Joe Fermerian* Bill To: *Sara Guevin*
 Company: *AEI Consultants*
2500 Camino Diablo
Walnut Creek, CA
 Tele: *(925) 746-6023* E-Mail: *jfermerian@aeiconsultants.com*
 Project #: *298931* Fax: *(925) 746-6099*
 Project Location: *1630 Park St, Alameda CA*
 Project Name: *Good Chevrolet*
 Sampler Signature: *Joseph...*

Analysis Request										Other	Comments					
SAMPLE ID	LOCATION/Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED		Filter sample for DISSOLVED metals analysis	Comments		
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL			HNO ₃	Other
STKP1 (A/B/C/D)	gas stkp	11/22	1100	4		X					X					**Indicate here if these samples are potentially dangerous to handle:
STKP2 (A/B/C/D)	WO stkp		11:5	4								X				
D1	Dis 1035'		1130	1							X					
D2	Dis 2035'		1145	1							X					
WO-9'	W009'		12:5	1								X				
WO-11'	W0011'		12:00	1								X			OFF 11/22/11 HOLD	
Btm1	10k/13' bgs		115	1							X					
Btm2	10k/13' bgs		125	1							X					
Btm3	4k/11' bgs		145	1							X					
Btm4	4k/11' bgs		150	1							X					
GW-1		11/22	200	5		X				X				X		

**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: *David Luller* Date: *11-22-11* Time: *5:25*
 Received By: *[Signature]*

Relinquished By: _____ Date: _____ Time: _____
 Received By: _____

Relinquished By: _____ Date: _____ Time: _____
 Received By: _____

ICE/# *2.8*

GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____

COMMENTS:
+ micro extraction ok ifrey'd jf

VOAS O&G METALS OTHER
 PRESERVATION pH<2

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1111767

ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Joseph Fermanian
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
(408) 559-7600 FAX: (408) 559-7601

Email: jfermanian@aeiconsultants.com
cc:
PO:
ProjectNo: #298931; Good Chevrolet

Bill to:

Sara Guerin
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
sguerin@aeiconsultants.com

Requested TAT:

3 days

Date Received: 11/22/2011

Date Printed: 11/23/2011

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
1111767-001	STKP1(A/B/C/D)	Soil	11/22/2011 11:00	<input type="checkbox"/>			A			A						
1111767-002	STKP2(A/B/C/D)	Soil	11/22/2011 11:15	<input type="checkbox"/>	A	A	A			A						
1111767-003	D1	Soil	11/22/2011 11:30	<input type="checkbox"/>			A			A						
1111767-004	D2	Soil	11/22/2011 11:45	<input type="checkbox"/>			A			A						
1111767-005	WO-9'	Soil	11/22/2011 12:15	<input type="checkbox"/>	A	A	A			A						
1111767-006	WO-11'	Soil	11/22/2011 12:30	<input type="checkbox"/>	A	A	A			A						
1111767-007	Btm1	Soil	11/22/2011 13:15	<input type="checkbox"/>			A			A						
1111767-008	Btm2	Soil	11/22/2011 13:25	<input type="checkbox"/>			A			A						
1111767-009	Btm3	Soil	11/22/2011 13:45	<input type="checkbox"/>			A			A						
1111767-010	Btm4	Soil	11/22/2011 13:50	<input type="checkbox"/>			A			A						
1111767-011	GW-1	Water	11/22/2011 14:00	<input type="checkbox"/>				A	B		B					

Test Legend:

1	5520E_SG_S	2	8260B_S	3	G-MBTX_S	4	G-MBTX_W	5	LUFTMS DISS
6	LUFTMS_S	7	PRDISSOLVED	8		9		10	
11		12							

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

Prepared by: Ana Venegas

Comments: Changed to 72hr TAT per JF on 11/23/due Tues, 11/29

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.



Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **11/22/2011 7:50:21 PM**
 Project Name: **#298931; Good Chevrolet** Checklist completed and reviewed by: **Ana Venegas**
 WorkOrder N°: **1111767** Matrix: Soil/Water Carrier: Client Drop-In

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 2.8°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:



McC Campbell Analytical, Inc.

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

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #298931; Good Chevrolet	Date Sampled: 11/22/11
	Client Contact: Joseph Fermanian	Date Received: 11/22/11
	Client P.O.:	Date Extracted 11/22/11
		Date Analyzed 11/28/11

Petroleum Oil & Grease with Silica Gel Clean-Up*

Extraction method: SM5520E/F

Analytical methods: SM5520E/F

Work Order: 1111767

Lab ID	Client ID	Matrix	POG	DF	% SS	Comments
1111767-002A	STKP2(A/B/C/D)	S	370	1	N/A	
1111767-005A	WO-9'	S	460	1	N/A	
1111767-006A	WO-11'	S	ND	1	N/A	

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

* 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.



AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #298931; Good Chevrolet	Date Sampled: 11/22/11
	Client Contact: Joseph Fermanian	Date Received: 11/22/11
	Client P.O.:	Date Extracted: 11/22/11
		Date Analyzed: 11/24/11

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1111767

Lab ID	1111767-002A
Client ID	STKP2(A/B/C/D)
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	0.016	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	0.0056	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	0.0051	1.0	0.005

Surrogate Recoveries (%)

%SS1:	90	%SS2:	97
%SS3:	96		

Comments:

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

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

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



AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #298931; Good Chevrolet	Date Sampled: 11/22/11
	Client Contact: Joseph Fermanian	Date Received: 11/22/11
	Client P.O.:	Date Extracted: 11/22/11
		Date Analyzed: 11/24/11

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1111767

Lab ID	1111767-005A
Client ID	WO-9'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	0.0085	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	0.0071	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes, Total	0.012	1.0	0.005

Surrogate Recoveries (%)

%SS1:	89	%SS2:	97
%SS3:	94		

Comments:

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

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

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



AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #298931; Good Chevrolet	Date Sampled: 11/22/11
	Client Contact: Joseph Fermanian	Date Received: 11/22/11
	Client P.O.:	Date Extracted: 11/22/11
		Date Analyzed: 11/24/11

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1111767

Lab ID	1111767-006A
Client ID	WO-11'
Matrix	Soil

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

Surrogate Recoveries (%)

%SS1:	90	%SS2:	97
%SS3:	95		

Comments:

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

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

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



AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #298931; Good Chevrolet	Date Sampled: 11/22/11
		Date Received: 11/22/11
	Client Contact: Joseph Fermanian	Date Extracted: 11/22/11-11/29/11
	Client P.O.:	Date Analyzed: 11/23/11-11/29/11

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1111767

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	STKP1(A/B/C/D)	S	ND	ND	ND	ND	ND	ND	1	116	
002A	STKP2(A/B/C/D)	S	ND	---	---	---	---	---	1	113	
003A	D1	S	ND	ND	ND	ND	ND	ND	1	105	
004A	D2	S	ND	ND	ND	ND	ND	ND	1	103	
005A	WO-9'	S	6.3	---	---	---	---	---	1	102	d7
006A	WO-11'	S	ND	---	---	---	---	---	1	106	
007A	Btm1	S	ND	ND	ND	ND	ND	ND	1	108	
008A	Btm2	S	ND	ND	ND	ND	ND	ND	1	105	
009A	Btm3	S	ND	ND	ND	ND	ND	ND	1	109	
010A	Btm4	S	ND	ND	ND	ND	ND	ND	1	107	
011A	GW-1	W	2400	ND	18	180	42	310	1	105	d1,b1

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	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

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

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

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

- b1) aqueous sample that contains greater than ~1 vol. % sediment
- d1) weakly modified or unmodified gasoline is significant
- d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram



McC Campbell Analytical, Inc.

"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #298931; Good Chevrolet	Date Sampled: 11/22/11
	Client Contact: Joseph Fermanian	Date Received: 11/22/11
	Client P.O.:	Date Extracted: 11/22/11
		Date Analyzed: 11/28/11

LUFT 5 Metals*

Extraction method: SW3050B

Analytical methods: SW6010B

Work Order: 1111767

Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS	Comments
001A	STKP1(A/B/C/D)	S	TOTAL	ND	53	34	36	54	1	118	
002A	STKP2(A/B/C/D)	S	TOTAL	ND	41	130	23	110	1	112	
003A	D1	S	TOTAL	ND	49	ND	25	19	1	122	
004A	D2	S	TOTAL	ND	53	ND	18	16	1	125	
005A	WO-9'	S	TOTAL	ND	87	13	55	47	1	126	
006A	WO-11'	S	TOTAL	ND	66	ND	47	32	1	118	
007A	Btm1	S	TOTAL	ND	44	13	23	27	1	119	
008A	Btm2	S	TOTAL	ND	49	ND	44	30	1	121	
009A	Btm3	S	TOTAL	ND	57	12	46	35	1	125	
010A	Btm4	S	TOTAL	ND	58	ND	50	33	1	126	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	NA	NA	NA	NA	NA	NA
	S	TOTAL	1.5	1.5	5.0	1.5	5.0	mg/Kg	

*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



McC Campbell Analytical, Inc.

"When Quality Counts"

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AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #298931; Good Chevrolet	Date Sampled: 11/22/11
	Client Contact: Joseph Fermanian	Date Received: 11/22/11
	Client P.O.:	Date Extracted: 11/22/11
		Date Analyzed: 11/29/11

LUFT 5 Metals*

Extraction method: E200.8

Analytical methods: E200.8

Work Order: 1111767

Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS	Comments
011B	GW-1	W	DISS.	ND	ND	ND	2.9	83	1	N/A	b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	DISS.	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



QC SUMMARY REPORT FOR SM5520E/F

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 62851

WorkOrder: 1111767

EPA Method: SM5520E/F		Extraction: SM5520E/F							Spiked Sample ID: 1111563-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
POG	ND	2000	91	93.9	3.17	94.2	97.3	3.24	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 62851 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111767-002A	11/22/11 11:15 AM	11/22/11	11/28/11 1:50 PM	1111767-005A	11/22/11 12:15 PM	11/22/11	11/28/11 1:55 PM
1111767-006A	11/22/11 12:30 PM	11/22/11	11/28/11 2:00 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 62905

WorkOrder: 1111767

EPA Method: SW8260B		Extraction: SW5030B							Spiked Sample ID: 1111699-001a			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	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	80.3	4.32	77.4	77.8	0.398	70 - 130	30	70 - 130	30
Benzene	ND	0.050	103	97.7	5.10	99.3	100	0.690	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	93.6	93.9	0.325	90.3	82	9.59	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	104	101	3.44	95.2	96.1	0.948	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	95.4	92.9	2.58	87.2	86.8	0.518	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	106	102	3.95	98.5	100	1.60	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	100	95.5	4.69	106	109	2.51	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	105	101	3.69	101	102	0.707	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	88.6	85.2	3.97	84.6	84.7	0.0994	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	103	98.8	4.07	97.2	97.2	0	70 - 130	30	70 - 130	30
Toluene	ND	0.050	109	104	4.21	103	105	1.70	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	105	99.3	5.29	98.6	99.7	1.12	70 - 130	30	70 - 130	30
%SS1:	88	0.12	105	104	0.951	105	105	0	70 - 130	30	70 - 130	30
%SS2:	103	0.12	112	112	0	113	114	0.551	70 - 130	30	70 - 130	30
%SS3:	103	0.012	107	109	2.15	107	106	1.29	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 62905 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111767-002A	11/22/11 11:15 AM	11/22/11	11/24/11 1:38 AM	1111767-005A	11/22/11 12:15 PM	11/22/11	11/24/11 3:00 AM
1111767-006A	11/22/11 12:30 PM	11/22/11	11/24/11 2:19 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 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.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 62957

WorkOrder: 1111767

EPA Method: SW8021B/8015Bm		Extraction: SW5030B							Spiked Sample ID: 1111714-023A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) £	ND	0.60	118	113	4.30	127	116	9.01	70 - 130	20	70 - 130	20
MTBE	ND	0.10	93.2	89.9	3.57	94.2	92.1	2.35	70 - 130	20	70 - 130	20
Benzene	ND	0.10	114	113	0.797	113	114	1.44	70 - 130	20	70 - 130	20
Toluene	ND	0.10	111	110	0.788	118	112	4.89	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	109	108	1.16	110	111	0.340	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	111	110	1.50	114	114	0	70 - 130	20	70 - 130	20
%SS:	106	0.10	110	109	0.369	112	113	0.600	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 62957 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111767-001A	11/22/11 11:00 AM	11/22/11	11/29/11 5:06 AM	1111767-002A	11/22/11 11:15 AM	11/22/11	11/24/11 7:21 AM
1111767-003A	11/22/11 11:30 AM	11/22/11	11/24/11 7:51 AM	1111767-004A	11/22/11 11:45 AM	11/22/11	11/24/11 8:21 AM
1111767-005A	11/22/11 12:15 PM	11/22/11	11/23/11 7:04 PM	1111767-006A	11/22/11 12:30 PM	11/22/11	11/23/11 10:57 PM
1111767-007A	11/22/11 1:15 PM	11/22/11	11/23/11 11:55 PM	1111767-008A	11/22/11 1:25 PM	11/22/11	11/24/11 12:24 AM
1111767-009A	11/22/11 1:45 PM	11/22/11	11/24/11 12:52 AM	1111767-010A	11/22/11 1:50 PM	11/22/11	11/24/11 6:41 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.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 62998

WorkOrder: 1111767

EPA Method: SW8021B/8015Bm		Extraction: SW5030B							Spiked Sample ID: 1111801-001A			
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	112	113	0.936	113	106	5.96	70 - 130	20	70 - 130	20
MTBE	ND	10	113	113	0	107	112	5.17	70 - 130	20	70 - 130	20
Benzene	ND	10	110	114	3.97	116	109	6.12	70 - 130	20	70 - 130	20
Toluene	ND	10	108	111	2.90	114	108	4.89	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	106	111	4.76	112	106	5.47	70 - 130	20	70 - 130	20
Xylenes	ND	30	108	114	5.09	115	108	6.50	70 - 130	20	70 - 130	20
%SS:	107	10	100	101	0.306	106	103	2.14	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 62998 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111767-011A	11/22/11 2:00 PM	11/26/11	11/26/11 11:17 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 % Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 £ TPH(btex) = sum of BTEX areas from the FID.
 # cluttered chromatogram; sample peak coelutes with surrogate peak.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



QC SUMMARY REPORT FOR 6010B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 1111767

EPA Method: SW6010B		Extraction: SW3050B				BatchID: 62864			Spiked Sample ID: 1111767-010A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Cadmium	ND	50	110	113	2.24	10	118	115	2.97	75 - 125	25	75 - 125	25
Chromium	58	50	100	106	2.79	10	121	113	6.88	75 - 125	25	75 - 125	25
Lead	ND	50	119	119	0	10	116	110	5.83	75 - 125	25	75 - 125	25
Nickel	50	50	103	100	1.26	10	115	112	3.09	75 - 125	25	75 - 125	25
Zinc	33	500	115	116	0.616	100	114	115	1.01	75 - 125	25	75 - 125	25
%SS:	126	500	122	123	0.573	500	121	120	0.662	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 62864 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111767-001A	11/22/11 11:00 AM	11/22/11	11/28/11 6:06 PM	1111767-002A	11/22/11 11:15 AM	11/22/11	11/28/11 6:09 PM
1111767-003A	11/22/11 11:30 AM	11/22/11	11/28/11 6:13 PM	1111767-004A	11/22/11 11:45 AM	11/22/11	11/28/11 6:22 PM
1111767-005A	11/22/11 12:15 PM	11/22/11	11/28/11 6:26 PM	1111767-006A	11/22/11 12:30 PM	11/22/11	11/28/11 6:29 PM
1111767-007A	11/22/11 1:15 PM	11/22/11	11/28/11 6:32 PM	1111767-008A	11/22/11 1:25 PM	11/22/11	11/28/11 6:35 PM
1111767-009A	11/22/11 1:45 PM	11/22/11	11/28/11 6:39 PM	1111767-010A	11/22/11 1:50 PM	11/22/11	11/28/11 6:42 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 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.



QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 62975

WorkOrder: 1111767

EPA Method: E200.8		Extraction: E200.8							Spiked Sample ID: 1111683-002A			
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	105	107	1.51	102	108	6.00	70 - 130	20	85 - 115	20
Chromium	1.8	10	103	104	0.909	104	111	6.71	70 - 130	20	85 - 115	20
Lead	ND	10	103	104	0.677	98.4	105	6.16	70 - 130	20	85 - 115	20
Nickel	0.93	10	104	103	0.801	100	108	6.83	70 - 130	20	85 - 115	20
Zinc	ND	100	105	106	0.273	102	109	6.61	70 - 130	20	85 - 115	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 62975 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111767-011B	11/22/11 2:00 PM	11/22/11	11/29/11 3:00 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$.
 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.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 62876

WorkOrder: 1111767

EPA Method: SW8015B		Extraction: SW3550B							Spiked Sample ID: 1111602-003A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	10	40	84.9	94.7	8.57	122	122	0	70 - 130	30	70 - 130	30
%SS:	123	25	102	108	6.11	118	118	0	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 62876 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111767-002A	11/22/11 11:15 AM	11/22/11	11/23/11 10:07 PM	1111767-005A	11/22/11 12:15 PM	11/22/11	11/23/11 7:39 AM
1111767-006A	11/22/11 12:30 PM	11/22/11	11/28/11 2:12 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 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.



Analytical Report

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #298931; Good Chevrolet	Date Sampled: 11/22/11
		Date Received: 11/22/11
	Client Contact: Joseph Fermanian	Date Reported: 12/19/11
	Client P.O.:	Date Completed: 12/19/11

WorkOrder: 1111767 A

December 19, 2011

Dear Joseph:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#298931; Good Chevrolet,**
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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

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

Best regards,

Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.



McCAMPBELL ANALYTICAL, INC.
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111701

CHAIN OF CUSTODY RECORD Add to 72 hr 11-25-11

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: Joe Ferminian Bill To: Sara Guevin
 Company: AEI Consultants
2500 Camino Diablo
Walnut Creek, CA
 E-Mail: jferminian@aeiconsultants.com
 Tele: (925) 746-6023 Fax: (925) 746-6099
 Project #: 298931 Project Name: Good Chevrolet
 Project Location: 1630 Park St, Alameda CA
 Sampler Signature: Joseph [Signature]

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
STKP1 (A/B/C/D)	gas stkp	11/22	1100	4			X				X						**Indicate here if these samples are potentially dangerous to handle: Filter sample for DISSOLVED metals analysis STC Pb added 12/25/11 JFB
STKP2 (A/B/C/D)	wo stkp		1115	4								X	X			X	
D1	Dis 1035'		1130	1							X						
D2	Dis 2035'		1145	1							X						
WO-9'	WO 09'		1215	1							X	X					
WO-11'	WO 011'		1230	1							X	X				OFF 11/22/11 HOLD	
Btm1	10k/13' bgs		115	1							X						
Btm2	10k/13' bgs		125	1							X						
Btm3	4k/11' bgs		145	1							X						
Btm4	4k/11' bgs		150	1							X						
GW-1		11/22	200	5		X	X				X					X	

****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: <u>[Signature]</u>	Date: <u>11-22-11</u>	Time: <u>5:25</u>	Received By: <u>[Signature]</u>	ICE/# <u>2.8</u>	COMMENTS: <u>+ micro extraction ok, if req'd JFB</u>
Relinquished By:	Date:	Time:	Received By:	GOOD CONDITION _____ HEAD SPACE ABSENT _____ DECHLORINATED IN LAB _____ APPROPRIATE CONTAINERS _____ PRESERVED IN LAB _____	
Relinquished By:	Date:	Time:	Received By:	VOAS O&G METALS OTHER PRESERVATION pH<2	

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1111767 A ClientCode: AEL

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Joseph Fermanian
 AEI Consultants
 2500 Camino Diablo, Ste. #200
 Walnut Creek, CA 94597
 (925) 283-6000 FAX: (925) 283-6121

Email: jfermanian@aeiconsultants.com
 cc: droy@aeiconsultants.com
 PO:
 ProjectNo: #298931; Good Chevrolet

Bill to:

Sara Guerin
 AEI Consultants
 2500 Camino Diablo, Ste. #200
 Walnut Creek, CA 94597
 sguerin@aeiconsultants.com

Requested TAT: 3 days

Date Received: 11/22/2011
Date Add-On: 12/15/2011
Date Printed: 12/15/2011

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		
1111767-002	STKP2(A/B/C/D)	Soil	11/22/2011 11:15	<input type="checkbox"/>	A													

Test Legend:

1	STLC_PB_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments: Changed to 72hr TAT per JF on 11/23/due Tues, 11/29. STLC Pb added 12/15/11 24hr per email.

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



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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #298931; Good Chevrolet	Date Sampled: 11/22/11
	Client Contact: Joseph Fermanian	Date Received: 11/22/11
	Client P.O.:	Date Extracted: 12/15/11-12/17/11
		Date Analyzed: 12/19/11

Lead by ICP*

Extraction method: CA Title 22

Analytical methods: SW6010B

Work Order: 1111767

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
1111767-002A	STKP2(A/B/C/D)	S	WET	5.5	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	WET	0.2	mg/L

*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.

WET = Waste Extraction Test, i.e., STLC (Soluble Threshold Limit Concentration).
DI WET = Waste Extraction Test using DI water (DI STLC).

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



QC SUMMARY REPORT FOR SW6010B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 63479

WorkOrder: 1111767

EPA Method: SW6010B		Extraction: CA Title 22					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Lead	N/A	1	N/A	N/A	N/A	82.6	N/A	N/A	75 - 125	

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

BATCH 63479 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111767-002A	11/22/11 11:15 AM	12/15/11	12/19/11 1:37 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 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.



Analytical Report

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #298931; Good Chevrolet	Date Sampled: 11/22/11
		Date Received: 11/22/11
	Client Contact: Joseph Fermanian	Date Reported: 01/10/12
	Client P.O.:	Date Completed: 01/10/12

WorkOrder: 1111767 B

January 11, 2012

Dear Joseph:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#298931; Good Chevrolet,**
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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

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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.



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

11/17/01

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: Joe Fermanian Bill To: Sara Gverin

Company: AEI Consultants
2500 Camino Diablo
Walnut Creek, CA E-Mail: jfermanian@aeiconsultants.com

Tele: (925) 746-6023 Fax: (925) 746-6099

Project #: 298931 Project Name: Good Chevrolet

Project Location: 1630 Park St, Alameda CA

Sampler Signature: Joseph [Signature]

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED														Analysis Request	Other	Comments													
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) and TPH as Gas	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 CI 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)							
STKP1 (A/B/C/D)	gas stkp	11/22	1100	4		X					X				X																									
STKP2 (A/B/C/D)	wo stkp		1115	4											X	X																								
D1	Dis 1035'		1130	1											X																									
D2	Dis 2035'		1145	1											X																									
WO-9'	W009'		1215	1											X	X																								
HOLD - WO-11'	W0011'		1230	1											X	X																						OFF 11/22/01 HOLD		
Btm 1	10k/13' bgs		115	1											X																									
Btm 2	10k/13' bgs		125	1											X																									
Btm 3	4k/11' bgs		145	1											X																									
Btm 4	4k/11' bgs		150	1											X																									
GW-1		11/22	200	5		X									X																									

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Relinquished By: <u>[Signature]</u>	Date: <u>11-22-01</u>	Time: <u>5:25</u>	Received By: <u>[Signature]</u>	ICE/# <u>2.8</u>	COMMENTS: <u>+ micro extraction ok if req'd JF</u>
Relinquished By:	Date:	Time:	Received By:	GOOD CONDITION _____ HEAD SPACE ABSENT _____ DECHLORINATED IN LAB _____ APPROPRIATE CONTAINERS _____ PRESERVED IN LAB _____	
Relinquished By:	Date:	Time:	Received By:	VOAS O&G METALS OTHER PRESERVATION pH<2	

McC Campbell Analytical, Inc.

1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1111767 B ClientCode: AEL

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:	Joseph Fermanian AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 (925) 283-6000 FAX: (925) 944-2895	Email: jfermanian@aeiconsultants.com cc: droy@aeiconsultants.com PO: ProjectNo: #298931; Good Chevrolet	Bill to:	Sara Guerin AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 sguerin@aeiconsultants.com	Requested TAT:	3 days
					Date Received:	11/22/2011
					Date Add-On:	01/09/2012
					Date Printed:	01/09/2012

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
1111767-002	STKP2(A/B/C/D)	Soil	11/22/2011 11:15	<input type="checkbox"/>	A													

Test Legend:

1	TCLP_PB_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments: Changed to 72hr TAT per JF on 11/23/due Tues, 11/29. STLC Pb added 12/15/11 24hr per email.TCLP Pb added 1/9/12 rush tat per J.F

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



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

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #298931; Good Chevrolet	Date Sampled: 11/22/11
	Client Contact: Joseph Fermanian	Date Received: 11/22/11
	Client P.O.:	Date Extracted: 01/09/12-01/10/12
		Date Analyzed: 01/10/12

Lead by ICP*

Extraction method: SW1311/SW3050B

Analytical methods: SW6010B

Work Order: 1111767

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
1111767-002A	STKP2(A/B/C/D)	S	TCLP	ND	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	TCLP	0.2	mg/L

*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.

TCLP = Toxicity Characteristic Leaching Procedure.
DI TCLP = Toxicity Characteristic Leaching Procedure using DI water.

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

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW6010B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 63861

WorkOrder: 1111767

EPA Method: SW6010B		Extraction: SW1311/SW3050B					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Lead	N/A	1	N/A	N/A	N/A	89.4	N/A	N/A	75 - 125	

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

BATCH 63861 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111767-002A	11/22/11 11:15 AM	01/09/12	01/10/12 3:13 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 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.

APPENDIX E:
COMPACTION TESTING DOCUMENTS

CMT, INC. DAILY FIELD REPORT

JOB NO. or P.O. NO.
10569
PAGE **1** OF **1**

PROJECT NAME 1630 Park ST	CLIENT OR OWNER ASI	DAILY FIELD REPORT SEQUENCE NO. 1	
GENERAL LOCATION OF WORK Alameda	OWNER OR CLIENT'S REPRESENTATIVE Dusty	DATE 12/2/11	DAY OF WEEK FRI
GENERAL CONTRACTOR	GRADING CONTRACTOR ASI	PROJECT ENGINEER	
TYPE OF WORK Testing	CONTRACTOR'S SUPERINTENDENT OR FOREMAN Dusty	SUPERVISOR	
SOURCE AND DESCRIPTION OF FILL MATERIAL (IMPORT OR SITE) AB - Fremont Job # 10519		WEATHER rain	TECHNICIAN Bruce Moseman
DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, AND COMPACTING Rammer, Wacker, water hose			

TEST NUMBER	TEST LOCATION	ELEV (feet)	FIELD TESTING			REFERENCE CURVE			COMMENTS
			DRY DENSITY lbs/cu. ft.	MOISTURE CONTENT %	% OF MAXIMUM DRY DENSITY	COMP CURVE NO.	MAXIMUM DRY DENSITY lbs/cu. ft.	OPTIMUM MOISTURE CONTENT %	
1	Big Excavation								90% #10519
	East End	F/AB	139.1	5.9	99	1	139.3	7.2	
2	West End	F/AB	138.8	5.8	99	1	↓		"
3	Small Excavation								#10519
	Center	-2'	134.4	6.2	97	1	139.3	7.2	

NOTES (Describe work completed during the day, any problems and their solutions)

Arrived on site 3:15pm at request of client
 Tests taken at (2) excavations located at the S.E. corner of the building (in the rear)

Big Excavation was approx 35' x 20' and was at Finish AB elevation - all tests passed

Small Excavation located approx 2' East of S.E. corner of Bldg 7' x 11' x -2' deep Tests at small excavation at present grade passed

Note Big Excavation appears east of Bldg in at end of driveway area

TIME BILLED 4 HRS.	NO. OF VISITS (5)	TYPED REPORT <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTINUED <input type="checkbox"/>
RECEIVED BY	COPY GIVEN TO		