



January 15, 2014

Calmwater Capital 3, LLC c/o Mr. Tod Ridgeway Ridgeway Development Company 2804 Lafayette Ave.
Newport Beach, California 92663

Results of Phase II Subsurface Investigations at 150 Newport Center Drive, Newport Beach, California

Dear Mr. Ridgeway:

The following report presents the results of a Phase II subsurface investigation consisting of a near surface soil gas survey conducted proximate to the fueling system at 150 Newport Center Drive in Newport Beach, California. Fero recently conducted a Phase I Environmental Assessment for the subject site ("Site") which identified low levels of residual fuel organics left in place after dispenser and piping were replaced on the Site. The local oversight agency ("LOA"), the Orange County Health Care Agency ("OCHCA"), determined the organics concentrations to be acceptable and that a cleanup case would not be opened. Based on the OCHCA conclusions, Fero recommended no further investigations, however a confirmation assessment was requested. The assessment is the subject of this report. Improvements on the Site consisted of a one-story carwash building with a paved parking area and a fueling area.

The only hazardous materials identified at the Site were two grades of gasoline contained in a fueling system which consisted of 3-12,000 gallon underground storage tanks ("USTs") and associated piping and dispensers. The fueling system is permitted through the OCHCA and the South Coast Air Quality Management District ("AQMD"). Fero reviewed the OCHCA UST file for the Site on October 29, 2013 as part of the referenced Phase I. The file indicated that the soils tested at the Site during removal of the original USTs in 1989 were "clean". When the dispensers and piping were replaced/upgraded in 2003, some residual Total Petroleum Hydrocarbons - gasoline ("TPHg") and Benzene, Toluene, Ethyl Benzene and Xylenes ("BTEX") were detected below two of the dispensers. The regulatory agency was not concerned with the concentrations detected and did not require any cleanup. The current fueling system has a continuous leak detections system and appears to be in compliance with the OCHCA. No auto repairs occur at the Site and no oil or anti-freeze are sold onsite. The carwash has a reclaimed water system with a three-stage "clarifier" that is permitted through the City of Newport Beach. The solids that settle out in the clarifier are pumped and disposed of as non-hazardous.

The primary potential compound of concern is the gasoline. Fero was retained to conduct a limited soil vapor survey in the area of the USTs and the fuel dispensers to confirm that the fueling system has not leaked and caused a significant impact to the Site.

Subsurface Investigations

Fero conducted the soil vapor survey at the Site on January 7, 2014. The survey was conducted by installing sampling probes into the soil at 8 locations to a depth of 18". Soil vapor probes, SV1-SV4, were located around the underground storage tanks and soil vapor probes, SV5-SV8, were located proximate to the dispensers. The locations of the soil gas sampling points are indicated on Figure 1.

Fero installed the probes using a roto-hammer to drill through the concrete or asphalt pavement to 18" below grade. The depth was selected based on typical LOA requirements for concentration data used in risk screening for project sites with potential volatile organic compound ("VOC") impacts. The probes consisted of Teflon lined polyethylene tubing (1/4 inch) with approximately 6" of perforations at the tip which was inserted into the open annulus. A small amount of coarse sand was allowed to flow through the inside of the annulus to form a permeable sand pack around the perforated section of the probes at depth. The annulus above the sand pack was grouted with bentonite slurry formed in situ from hydrated granular bentonite.

Following an equilibration period of one week, Fero retained Jones Environmental, Inc. (Jones) to collect soil gas samples from each probe on January 14, 2014. Prior to the sampling process, the integrity of the sampling train was evaluated using a shut in test which involves drawing a vacuum on the system with all of the stopcocks open except the probe end. The vacuum, which is drawn on the system with a 125 cc sampling syringe, is measured using an inline vacuum gauge. If the system does not maintain a vacuum, adjustments are made to the valving and connections to prevent leaks. Jones was able to confirm the integrity of each sampling train and to collect samples from all of the probes. A purge test was conducted on probe SV8 in which 1, 3, and 10 volumes were removed from the probe and analyzed to determine the optimum remove volume to give representative concentrations in the soil profile surrounding the probe tip. One volume was determined to be optimum. A duplicate sample was collected from SV1. Each sample was injected directly into an onsite gas chromatograph/mass spectrophotometer ("GC/MS") for analysis using EPA Method 8260b. The results of the sampling are summarized in Table 1. Note that the data presented in Table 1 for probe SV8 are those measured in the sample collected after one purge volume. A copy of Jones' laboratory report is attached in Appendix A.

Conclusions

As indicated in Table 1, only two samples collected proximate to the USTs contained VOCs above the GC/MS detection limits. They were collected from probes SV1 (TPHg at 1.32 μ g/L) and SV3 (1,3,5-Trimethylbenzene at 0.042 μ g/L). All of the probes collected proximate to the fueling islands (SV5 - SV8) contained TPHg concentrations ranging from 0.3 to 117 μ g/L. Probes SV7 & SV8 contained Naphthalene at concentrations ranging from 0.36 to 1.01 μ g/L, probe SV8 contained 0.36 μ g/L of 4-Isopropyltoluene and 1.84 μ g/L of 1,3,5-Trimethylbenzene.

-Table 1-Soil Vapor Survey Results 150 Newport Center Drive, Newport Beach, California January 14, 2014 (Concentrations shown are ug/L)

Probe	Depth	TMB	Naphthalene	IPT	TPHg
SV1	18"	nd	nd	nd	1.32
SV2	18"	nd	nd	nd	nd
SV3	18"	0.042	nd	nd	nd
SV4	18"	nd	nd	nd	nd
SV5	18"	nd	nd	nd	0.300
SV6	18"	nd	nd	nd	1.60
SV7	18"	nd	0.36	nd	6.20
SV8	18"	1.84	1.01	0.262	117

nd = not detected, TMB - 1,3,5-Trimethylbenzene, IPT - 4-Isopropyltoluene, TPHg - Total Petroleum Hydrocarbons as gasoline

1,3,5-Trimethylbenzene is a laboratory solvent and a product of incomplete combustion of fuel; naphthalene is a constituent of hydrocarbon oil products and its distillates (oil, diesel and to a lesser extent gasoline) and it is produced naturally by certain flora, fauna and fungi; 4-Isopropyltoluene (p-Cymene) is a naturally occurring aromatic organic compound commonly found in essential oils like cumin and thyme. TPHg is the mass of the aliphatic chain in the gasoline range.

The current regulatory standard for evaluation of the risk to humans from contaminated properties is outlined in the California Environmental Protection Agency's, *Use of California Human Health Screening Levels ("CHHSLs") in Evaluation of Contaminated Properties*, dated January 2005. The CHHSLs were prepared using very conservative risk evaluation criteria for generic conditions under both commercial/industrial and residential scenarios. The list of CHHSLs was prepared as a screening tool to determine whether a site represents a risk to occupants of the site. Naphthalene is the only compound detected in soils at the Site with CHHSLs. The current shallow soil gas (5 ft or less below grade) CHHSLs for Naphthalene are: $0.0319~\mu g/L$ for residential use and $0.106~\mu g/L$ for commercial/industrial use. The highest Naphthalene concentration of $1.01~\mu g/L$ observed during this investigation is above the residential and commercial CHHSLs for Naphthalene therefor the Naphthalene needs further evaluation. Neither TPHg nor 4-Isopropyltoluene are considered carcinogens or a hazard to humans for risk calculation purposes. 1,3,5-Trimethylbenzene is not a carcinogen but it does pose a hazard threat.

Fero conducted a health hazardous risk assessment ("HHRA") screening to determine whether there is a potential for the remaining organics concentrations to pose an adverse risk to Site occupants. Risk assessments are conducted to determine the increased life time cancer risk and/or the potential hazard from non-carcinogenic compounds to occupants of buildings overlying impacted soils.

Because none of the VOCs are considered carcinogenic and because 4-Isopropyltoluene nor TPHg are considered a human hazard, only the potential hazard effects from 1,3,5-Trimethylbenzene and Naphthalene were considered in this HHRA. The maximum allowable hazard quotient is 1.

The preliminary HHRA was conducted using the Johnson & Ettinger ("J&E") model, observed Site soil type and defaults from the model including an artificial intrusion rate of 5 L/min into an onsite building. Input VOC concentrations for the model could be the mean of the data however, most LOA recommend using the 95% upper confidence level for a concentration based on a data set as calculated using a program similar to ProUCL. Eight concentrations with four distinct values are the recommended minimum for meaningful bootstrap results using the ProUCL however, the model gives a reasonable estimation of the 95% upper confidence level as the 95% Student's-t value. The ProUCL values calculated for the two VOCs of concern are: Naphthalene – 0.492 μ g/L and 1,3,5-Trimethylbenzene – 0.857 μ g/L. The resulting hazard quotients calculated by the J&E model are Naphthalene – 4.5 x 10^{-1} and 1,3,5-Trimethylbenzene – 4 x 10^{-1} . The combined hazard quotient for the Site using worst case generic residential input (assumes a house constructed over the soils with residual organics concentrations) is 8.5 x 10^{-1} which is well below 1. Copies of the J&E computer runs are included in Appendix B.

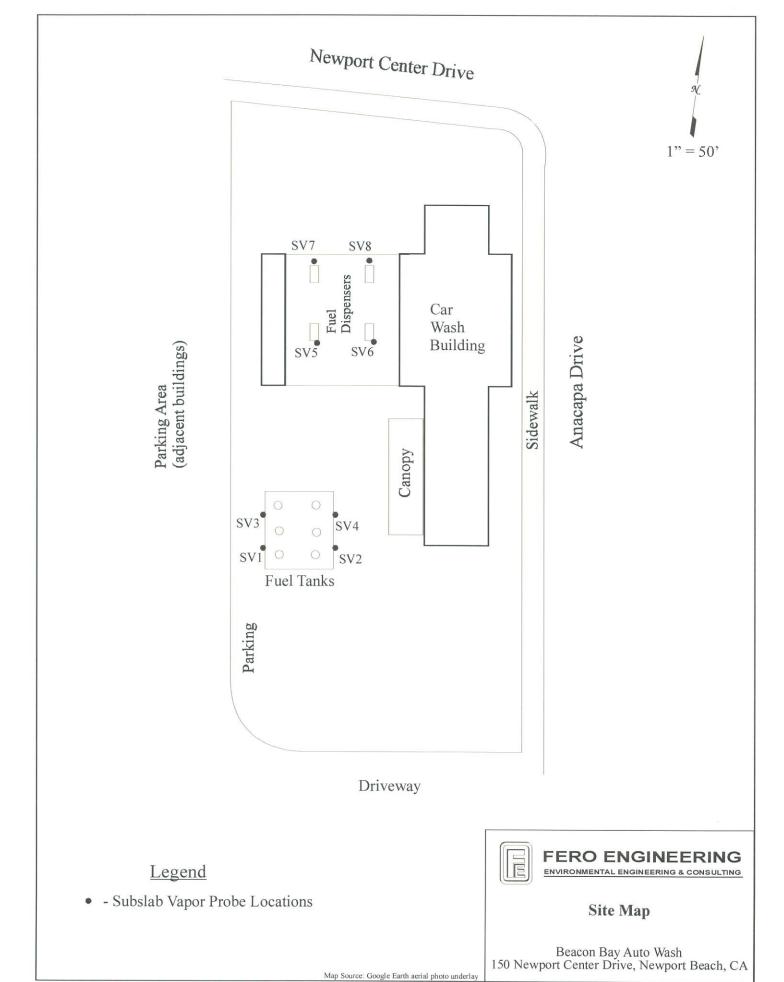
The HHRA indicates the residual organics in soils at the Site are not a threat to the Site occupants. Should you have any questions or comments regarding this investigation report, please contact John Petersen or the undersigned at (714) 256-2737.

Respectfully,
Fero Environmen

Rick L. Presiden

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RLF: jbp [816aPHII]



Attachment A

Soil Gas Analytical Data



P.O. Box 5387 FULLERTON, CA 92838 (714) 449-9937 FAX (714) 449-9685

JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Fero Environmental Engineering Inc.

Client Address: 431 W. Lambert Rd., Suite 305

Brea, CA 92821

Attn: John Petersen

Project Name: Beacon Bay Autowash
Project Address: 150 Newport Center Dr.

Newport Beach, CA

Report date: 1/15/2014

JEL Ref. No.: A-7162 Client Ref. No.: 13-816A

Date Sampled: 1/14/2014 **Date Received:** 1/14/2014 **Date Analyzed:** 1/14/2014

Physical State: Soil Gas

ANALYSES REQUESTED

EPA 8260B - Volatile Organics by GC/MS + Oxygenates/Total Petroleum Hydrocarbons

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers. Tubing placed in the ground for soil gas sampling was purged three different times as recommended by DTSC/RWQCB guidance documents. This purge test determined how many purges of the soil gas tubing were needed throughout the project. One, three and ten purge volumes were analyzed to make this determination.

A tracer gas mixture of n-propanol and n-pentane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-propanol or n-pentane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min except when noted differently on the chain of custody record using a gas tight syringe. 1 purge volume was used since this purging level gave the highest results for the compound(s) of greatest interest.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, Matrix Spike (MS) and Matrix Spike Duplicates (MSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Steve Jones, Ph.D. Laboratory Manager



P.O. Box 5387 | FULLERTON, CA 92838 (714) 449-9937 | FAX (714) 449-9685

JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Fero Environmental Engineering Inc. Report date: 1/15/2014
Client Address: 431 W. Lambert Rd., Suite 305

JEL Ref. No.: A-7162

Brea, CA 92821 Client Ref. No.: 13-816A

Attn: John Petersen Date Sampled: 1/14/2014

Date Received: 1/14/2014

Project:Beacon Bay AutowashDate Analyzed:1/14/2014Project Address:150 Newport Center Dr.Physical State:Soil Gas

Newport Beach, CA

SV8

SV8

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Total Petroleum Hydrocarbons

SV8

Sample ID:		SV8 1P	SV8 3P	SV8 10P	SV7	SV6		
		11	31	101			D	
JEL ID:	A-7	162-01 A	A-7162-02	A-7162-03	A-7162-04	A-7162-05	Practical Quantitation	Units
Analytes:							<u>Limit</u>	
Benzene		ND	ND	ND	ND	ND	0.020	μg/L
Bromobenzene		ND	ND	ND	ND	ND	0.020	μg/L
Bromodichloromethan	ie	ND	ND	ND	ND	ND	0.020	μg/L
Bromoform		ND	ND	ND	ND	ND	0.020	μg/L
n-Butylbenzene		ND	ND	ND	ND	ND	0.020	μg/L
sec-Butylbenzene		ND	ND	ND	ND	ND	0.020	μg/L
tert-Butylbenzene		ND	ND	ND	ND	ND	0.020	μg/L
Carbon tetrachloride		ND	ND	ND	ND	ND	0.020	μg/L
Chlorobenzene		ND	ND	ND	ND	ND	0.020	μg/L
Chloroform		ND	ND	ND	ND	ND	0.020	μg/L
2-Chlorotoluene		ND	ND	ND	ND	ND	0.020	μg/L
4-Chlorotoluene		ND	ND	ND	ND	ND	0.020	μ g/L
Dibromochloromethar	ne	ND	ND	ND	ND	ND	0.020	μg/L
1,2-Dibromo-3-chlorop	propane	ND	ND	ND	ND	ND	0.020	μg/L
1,2-Dibromoethane (E	DB)	ND	ND	ND	ND	ND	0.020	μg/L
Dibromomethane		ND	ND	ND	ND	ND	0.020	μg/L
1,2- Dichlorobenzene		ND	ND	ND	ND	ND	0.020	$\mu g/L$
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	0.020	μg/L
1,4-Dichlorobenzene		ND	ND	ND	ND	ND	0.020	μg/L
Dichlorodifluorometh		ND	ND	ND	ND	ND	0.020	μg/L
1,1-Dichloroethane		ND	ND	ND	ND	ND	0.020	μg/L
1,2-Dichloroethane		ND	ND	ND	ND	ND	0.020	μg/L
1,1-Dichloroethene		ND	ND	ND	ND	ND	0.020	μg/L
cis-1,2-Dichloroethen	e	ND	ND	ND	ND	ND	0.020	μg/L
trans-1,2-Dichloroethe	ene	ND	ND	ND	ND	ND	0.020	μg/L
1,2-Dichloropropane		ND	ND	ND	ND	ND	0.020	μg/L
1,3-Dichloropropane		ND	ND	ND	ND	ND	0.020	μg/L
2,2-Dichloropropane		ND	ND	ND	ND	ND	0.020	μg/L
1,1-Dichloropropene		ND	ND	ND	ND	ND	0.020	μg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Total Petroleum Hydrocarbons							
Sample ID:	SV8 1P	SV8 3P	SV8 10P	SV7	SV6		
JEL ID:	A-7162-01	A-7162-02	A-7162-03	A-7162-04	A-7162-05	Practical Quantitation	<u>Units</u>
Analytes:						<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	μg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	μg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	μg/L
Freon 113	ND	ND	ND	ND	ND	0.100	μg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	μg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	μg/L
4-Isopropyltoluene	0.262	0.161	0.026	ND	ND	0.020	μg/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	μg/L
Naphthalene	1.01	1.21	1.10	0.036	ND	0.020	μg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	μg/L
Styrene	ND	ND	ND	ND	ND	0.020	μg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	μg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	μg/L
Tetrachloroethylene	ND	ND	ND	ND	ND	0.020	μg/L
Toluene	ND	ND	ND	ND	ND	0.020	μg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	μg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	μg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	μg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	μg/L
Trichloroethylene	ND	ND	ND	ND	ND	0.020	μg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	μg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	μg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	μg/L
1,3,5-Trimethylbenzene	1.84	1.26	0.737	ND	ND	0.020	μg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	μg/L
Xylenes	ND	ND	ND	ND	ND	0.020	μg/L
MTBE	ND	ND	ND	ND	ND	0.100	μg/L
Ethyl-tert-butylether	ND	0.108	ND	ND	ND	0.100	μg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.100	μg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.100	μg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	1.000	μg/L
TPH Gasoline Range	117	100	68.9	6.20	1.60	0.200	μg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.200	μg/L
n-pentane	ND	ND	ND	ND	ND	0.020	μg/L
5			1			0.020	PP 1
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						QC Limi	its
Dibromofluoromethane	120%	115%	119%	115%	108%	75 - 125	5
Toluene-d ₈	105%	105%	108%	107%	102%	75 - 125	,
4-Bromofluorobenzene	•	•	•	92%	92%	75 - 125	5
	A2-011414-	A2-011414-	A2-011414-	A2-011414-	A2-011414-		
	A-7161	A-7161	A-7161	A-7161	A-7161		

^{• =} High Hydrocarbon concentration in this sample prevented adequate surrogate recovery

Sample ID:



JONES ENVIRONMENTAL LABORATORY RESULTS

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A-7162

Brea, CA 92821 Client Ref. No.: 13-816A

Attn: John Petersen Date Sampled: 1/14/2014

Date Received: 1/14/2014 Beacon Bay Autowash 1/14/2014 Date Analyzed:

SV2

SV1

Project: 150 Newport Center Dr. **Project Address: Physical State:** Soil Gas

Newport Beach, CA

SV5

SV4

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Total Petroleum Hydrocarbons

SV3

JEL ID:	A-7162-06	A-7162-07	A-7162-08	A-7162-09	A-7162-10	Practical Quantitation	Units
Analytes:						Limit	Cints
Benzene	ND	ND	ND	ND	ND	0.020	μg/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	μg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	μg/L
Bromoform	ND	ND	ND	ND	ND	0.020	μg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	μg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	μg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	μg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	μg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	μg/L
Chloroform	ND	ND	ND	ND	ND	0.020	μg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	μg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	μg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	μg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	μg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	μg/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	μg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	μg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	μg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	μg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	μg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	μg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	μg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	μg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	μg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	μg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	μg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	μg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	μg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	μg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Total Petroleum Hydrocarbons								
Sample ID:	SV5	SV4	SV3	SV2	SV1			
JEL ID:	A-7162-06	A-7162-07	A-7162-08	A-7162-09	A-7162-10	Practical Quantitation	<u>Units</u>	
Analytes:						<u>Limit</u>		
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	μg/L	
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	μg/L	
Ethylbenzene	ND	ND	ND	ND	ND	0.020	μg/L	
Freon 113	ND	ND	ND	ND	ND	0.100	μg/L	
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	μg/L	
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	μg/L	
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	μg/L	
Methylene chloride	ND	ND	ND	ND	ND	0.020	μg/L	
Naphthalene	ND	ND	ND	ND	ND	0.020	μg/L	
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	μg/L	
Styrene	ND	ND	ND	ND	ND	0.020	μg/L	
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	μg/L	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	μg/L	
Tetrachloroethylene	ND	ND	ND	ND	ND	0.020	μg/L	
Toluene	ND	ND	ND	ND	ND	0.020	μg/L	
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	μ g/L	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	μg/L	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	μg/L	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	μg/L	
Trichloroethylene	ND	ND	ND	ND	ND	0.020	μg/L	
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	μg/L	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	μg/L	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	μg/L	
1,3,5-Trimethylbenzene	ND	ND	0.042	ND	ND	0.020	μg/L	
Vinyl chloride	ND	ND	ND	ND	ND	0.020	μg/L	
Xylenes	ND	ND	ND	ND	ND	0.020	μg/L	
MTBE	ND	ND	ND	ND	ND	0.100	μg/L	
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.100	μg/L	
Di-isopropylether	ND	ND	ND	ND	ND	0.100	μg/L	
tert-amylmethylether	ND	ND	ND	ND	ND	0.100	μg/L	
tert-Butylalcohol	ND	ND	ND	ND	ND	1.000	μg/L	
TPH Gasoline Range	0.300	ND	ND	ND	1.32	0.200	μg/L	
TIC:								
n-propanol	ND	ND	ND	ND	ND	0.200	μg/L	
n-pentane	ND	ND	ND	ND	ND	0.020	μg/L	
Dilution Factor	1	1	1	1	1			
		-1			*			
Surrogate Recoveries:	9 9 0000	1020202000	-	12.12.2.2.11	grig grande	QC Limi		
Dibromofluoromethane	110%	120%	115%	112%	110%	75 - 125		
Toluene-d ₈	98%	108%	104%	104%	101%	75 - 125		
4-Bromofluorobenzene	88%	89%	92%	98%	97%	75 - 125		
	A2-011414-	A2-011414-	A2-011414-	A2-011414-	A2-011414-			
	A-7161	A-7161	A-7161	A-7161	A-7161			



fullerton, CA 92838

JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Fero Environmental Engineering Inc. Report date: 1/15/2014 Client Address: 431 W. Lambert Rd., Suite 305 JEL Ref. No.: A-7162

Brea, CA 92821 Client Ref. No.: 13-816A

John Petersen Attn: Date Sampled: 1/14/2014

> Date Received: 1/14/2014 Beacon Bay Autowash 1/14/2014

Project: Date Analyzed: **Project Address:** 150 Newport Center Dr. **Physical State:** Soil Gas

Newport Beach, CA

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Total Petroleum Hydrocarbons

Sample 1	D:	SV1	REP

JEL ID:	A-7162-11	Practical	we w
		Quantitation	<u>Units</u>
Analytes:		<u>Limit</u>	
Benzene	ND	0.020	μg/L
Bromobenzene	ND	0.020	μg/L
Bromodichloromethane	ND	0.020	μg/L
Bromoform	ND	0.020	μg/L
n-Butylbenzene	ND	0.020	μg/L
sec-Butylbenzene	ND	0.020	μg/L
tert-Butylbenzene	ND	0.020	μg/L
Carbon tetrachloride	ND	0.020	μg/L
Chlorobenzene	ND	0.020	μg/L
Chloroform	ND	0.020	μg/L
2-Chlorotoluene	ND	0.020	μg/L
4-Chlorotoluene	ND	0.020	μg/L
Dibromochloromethane	ND	0.020	μg/L
1,2-Dibromo-3-chloropropane	ND	0.020	μg/L
1,2-Dibromoethane (EDB)	ND	0.020	μg/L
Dibromomethane	ND	0.020	μg/L
1,2- Dichlorobenzene	ND	0.020	μg/L
1,3-Dichlorobenzene	ND	0.020	μg/L
1,4-Dichlorobenzene	ND	0.020	μg/L
Dichlorodifluoromethane	ND	0.020	μg/L
1,1-Dichloroethane	ND	0.020	μg/L
1,2-Dichloroethane	ND	0.020	μg/L
1,1-Dichloroethene	ND	0.020	μg/L
cis-1,2-Dichloroethene	ND	0.020	μg/L
trans-1,2-Dichloroethene	ND	0.020	μg/L
1,2-Dichloropropane	ND	0.020	μg/L
1,3-Dichloropropane	ND	0.020	μg/L
2,2-Dichloropropane	ND	0.020	μg/L
1,1-Dichloropropene	ND	0.020	μg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Total Petroleum Hydrocarbons

Sample ID:	SV1 REP		
JEL ID:	A-7162-11	Practical	
	71-7102-11	Quantitation	<u>Units</u>
Analytes:		<u>Limit</u>	
cis-1,3-Dichloropropene	ND	0.020	μg/L
trans-1,3-Dichloropropene	ND	0.020	μg/L
Ethylbenzene	ND	0.020	μg/L
Freon 113	ND	0.100	μg/L
Hexachlorobutadiene	ND	0.020	μg/L
Isopropylbenzene	ND	0.020	μg/L
4-Isopropyltoluene	ND	0.020	μg/L
Methylene chloride	ND	0.020	μg/L
Naphthalene	ND	0.020	μg/L
n-Propylbenzene	ND	0.020	μg/L
Styrene	ND	0.020	μg/L
1,1,1,2-Tetrachloroethane	ND	0.020	μg/L
1,1,2,2-Tetrachloroethane	ND	0.020	μg/L
Tetrachloroethylene	ND	0.020	μg/L
Toluene	ND	0.020	μg/L
1,2,3-Trichlorobenzene	ND	0.020	μg/L
1,2,4-Trichlorobenzene	ND	0.020	μg/L
1,1,1-Trichloroethane	ND	0.020	μg/L
1,1,2-Trichloroethane	ND	0.020	μg/L
Trichloroethylene	ND	0.020	μg/L
Trichlorofluoromethane	ND	0.020	μg/L
1,2,3-Trichloropropane	ND	0.020	μg/L
1,2,4-Trimethylbenzene	0.156	0.020	μg/L
1,3,5-Trimethylbenzene	0.179 ND	0.020 0.020	μg/L
Vinyl chloride	0.051	0.020	μg/L
Xylenes MTBE	ND	0.100	µg/L
	ND	0.100	μg/L
Ethyl-tert-butylether	ND	0.100	μg/L
Di-isopropylether tert-amylmethylether	ND	0.100	μg/L
tert-Butylalcohol	ND	1.000	μg/L
tert-Butylaicolloi	ND	1.000	μg/L
TPH Gasoline Range	2.69	0.200	μg/L
TIC:			
n-propanol	ND	0.200	μg/L
n-pentane	ND	0.020	μg/L
Dilution Factor	1		
Surrogate Recoveries:		QC Limit	'S
Dibromofluoromethane	106%	75 - 125	
Toluene-d ₈	101%	75 - 125	
4-Bromofluorobenzene	95%	75 - 125	
	A 2 . 0.1.1.4.1.4		
	A2-011414-		
	A-7161		



METHOD SAMPLING

JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Fero Environmental Engineering Inc. Report date: 1/15/2014 **Client Address:** 431 W. Lambert Rd., Suite 305 JEL Ref. No.: A-7162 Brea, CA 92821 Client Ref. No.: 13-816A Attn: John Petersen Date Sampled: 1/14/2014 Date Received: 1/14/2014 Beacon Bay Autowash Project: Date Analyzed: 1/14/2014 150 Newport Center Dr **Project Address: Physical State:** Soil Gas Newport Beach, CA

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Total Petroleum Hydrocarbons

Sample ID:	METHOD	SAMPLING	
ounipie ID:	BLANK	BLANK	
IEL ID.	A 7162 12	A-7162-13	<u>Practical</u>
JEL ID:	A-7162-12	A-/102-13	Quantitation
Analytes:			<u>Limit</u>
Benzene	ND	ND	0.020
Bromobenzene	ND	ND	0.020
Bromodichloromethane	ND	ND	0.020
Bromoform	ND	ND	0.020
n-Butylbenzene	ND	ND	0.020
sec-Butylbenzene	ND	ND	0.020
tert-Butylbenzene	ND	ND	0.020
Carbon tetrachloride	ND	ND	0.020
Chlorobenzene	ND	ND	0.020
Chloroform	ND	ND	0.020
2-Chlorotoluene	ND	ND	0.020
4-Chlorotoluene	ND	ND	0.020
Dibromochloromethane	ND	ND	0.020
1,2-Dibromo-3-chloropropane	ND	ND	0.020
1,2-Dibromoethane (EDB)	ND	ND	0.020
Dibromomethane	ND	ND	0.020
1,2- Dichlorobenzene	ND	ND	0.020
1,3-Dichlorobenzene	ND	ND	0.020
1,4-Dichlorobenzene	ND	ND	0.020
Dichlorodifluoromethane	ND	ND	0.020
1,1-Dichloroethane	ND	ND	0.020
1,2-Dichloroethane	ND	ND	0.020
1,1-Dichloroethene	ND	ND	0.020
cis-1,2-Dichloroethene	ND	ND	0.020
trans-1,2-Dichloroethene	ND	ND	0.020
1,2-Dichloropropane	ND	ND	0.020
1,3-Dichloropropane	ND	ND	0.020
2,2-Dichloropropane	ND	ND	0.020
1,1-Dichloropropene	ND	ND	0.020

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile	Organics by	GC/MS + Oxygenates/Total	Petroleum Hydrocarbons
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	METHOD	SAMPLING	2 Suggesties 2 State Feet Steam Hydrocar Bons	
Sample ID:	BLANK	BLANK		
JEL ID:	A-7162-12	A-7162-13	Practical	
Analytes:			Quantitation Units	
	ND	ND	Limit	
cis-1,3-Dichloropropene	ND	ND	0.020 μg/L	
trans-1,3-Dichloropropene	ND	ND	0.020 μg/L	
Ethylbenzene	ND	ND	0.020 μg/L	
Freon 113	ND	ND	0.100 μg/L	
Hexachlorobutadiene	ND	ND	0.020 μg/L	
Isopropylbenzene	ND	ND	0.020 μg/L	
4-Isopropyltoluene	ND	ND	0.020 μg/L	
Methylene chloride	ND	ND	0.020 μg/L	
Naphthalene	ND	ND	0.020 μg/L	
n-Propylbenzene	ND	ND	0.020 μg/L	
Styrene	ND	ND	0.020 µg/L	
1,1,1,2-Tetrachloroethane	ND	ND	0.020 μg/L	
1,1,2,2-Tetrachloroethane	ND	ND	0.020 μg/L	
Tetrachloroethylene	ND	ND	0.020 μg/L	
Toluene	ND	ND	0.020 μg/L	
1,2,3-Trichlorobenzene	ND	ND	0.020 μg/L	
1,2,4-Trichlorobenzene	ND	ND	0.020 μg/L	
1,1,1-Trichloroethane	ND	ND	0.020 μg/L	
1,1,2-Trichloroethane	ND	ND	0.020 μg/L	
Trichloroethylene	ND	ND	0.020 μg/L	
Trichlorofluoromethane	ND	ND	0.020 μg/L	
1,2,3-Trichloropropane	ND	ND	0.020 μg/L	
1,2,4-Trimethylbenzene	ND	ND	0.020 μg/L	
1,3,5-Trimethylbenzene	ND	ND	0.020 μg/L	
Vinyl chloride	ND	ND	0.020 μg/L	
Xylenes	ND	ND	0.020 μg/L	
MTBE	ND	ND	0.100 μg/L	
Ethyl-tert-butylether	ND	ND	0.100 μg/L	
Di-isopropylether	ND	ND	0.100 μg/L	
tert-amylmethylether	ND	ND	0.100 μg/L	
tert-Butylalcohol	ND	ND	1.000 µg/L	
TPH Gasoline Range	ND	ND	0.200 μg/L	
TIC:				
n-propanol	ND	ND	0.200 μg/L	
n-pentane	ND	ND	0.020 μg/L	
Dilution Factor	1	1	1000	
Surrogate Recoveries:	1000/	11207	QC Limits	
Dibromofluoromethane	109%	113%	75 - 125	
Toluene-d ₈	105%	100%	75 - 125	
4-Bromofluorobenzene	122%	96%	75 - 125	
	A-011414-	A-011414-		
	A-7161	A-7161		



P.O. Box 5387 | Fullerton, CA 92838 (714) 449-9937 | Fax (714) 449-9685

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client: Fero Environmental Engineering Inc. Report date: 1/15/2014
Client Address: 431 W. Lambert Rd., Suite 305
Brea, CA 92821

Attn: John Petersen

Report date: 1/15/2014
Client Ref. No.: 13-816A

Date Sampled: 1/14/2014

Project: Beacon Bay Autowash Date Received: 1/14/2014
Date Analyzed: 1/14/2014

Project Address: 150 Newport Center Dr. Physical State: Soil Gas

Newport Beach, CA

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Total Petroleum Hydrocarbons

Sample Spiked:	Ambient Air		GC#:	A2-011414-A-7	7161	
JEL ID:	A-7162-15	A-7162-16			A-7162-14	
D	MS	MSD		Acceptability		Acceptability
<u>Parameter</u>	Recovery (%)	Recovery (%)	RPD	Range (%)	<u>LCS</u>	Range (%)
Vinyl Chloride	109%	98%	9.9%	70-130	94%	70-130
1,1-Dichloroethylene	114%	114%	0.1%	70-130	103%	70-130
Cis-1,2-Dichloroethene	93%	99%	6.5%	70-130	73%	70-130
1,1,1-Trichloroethane	105%	102%	3.6%	70-130	104%	70-130
Benzene	102%	101%	0.8%	70-130	92%	70-130
Trichloroethylene	102%	99%	3.0%	70-130	102%	70-130
Toluene	105%	99%	5.8%	70-130	96%	70-130
Tetrachloroethene	110%	102%	7.8%	70-130	103%	70-130
Chlorobenzene	104%	98%	5.1%	70-130	110%	70-130
Ethylbenzene	106%	98%	7.9%	70-130	106%	70-130
1,2,4 Trimethylbenzene	92%	83%	11%	70-130	104%	70-130
TPH Gasoline Range	104%	102%	2.5%	70-130		
Surrogate Recovery:						
Dibromofluoromethane	99%	100%		75-125	110%	75-125
Toluene-d ₈	103%	100%		75-125	105%	75-125
4-Bromofluorobenzene	87%	84%		75-125	85%	75-125

Method Blank = Not Detected

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

JEL Project #

FINAL INC.

P.O. Box 5387 Fullerton, CA 92838 www.jonesenvironmentallab.com

Chain-of-Custody Record

Chilled Jyes Ano Sealed Lyes Dno 14 A-7162 authorization to perform the analyses specified Sample Condition as Received: The delivery of samples and the signature on Remarks/Special Instructions above under the Terms and Conditions set Total Number of Containers Lab Use Only this Chain of Custody form constitutes forth on the back hereof. Number of Containers Analysis Requested Magneher Vacuum (In/H₂O) 2 3 61/14/14 5 2007 Date Time SOIL GAS

Purge Number: Mip □ 3P □ 7P □ 10P

Purge Rate: 2000 cc/min × \times N X × X ¥ A-7162-0780 K 7 A-7161-098 X A-7162-08 80 A X A-7461-02 SG A-766- 66 8 R A-7161-04 So 150 CO A-7162-05 & A-7161-63 SG A-766-01 Shut in Test (Y)/ N Laboratory Sample Number 4 Received by Laboratory (signature) n-propanol n-propanol 1,1-DFA B Received by 01/14/13 Sample Analysis Time Immediate Attention Rush 24-48 Hours Rush 72-96 Hours Turn Around Requested: Company Client Project # Normal Mobile Lab 087 Y Sample Collection Time 2500 2020 9730 0740 0250 (A 36) 5813 2750 000 P1/14/19 100 J Rich Ministernantal Ersincerin Inc Date Time Date 526 50 Hewport Center Dr 500 Purge 53 53 33 53 Project Contact Beach, CA B 6 Purge 9 John Peterson M 90 35 8 Relinquished by (signature) Sample ID 508 3000 SCS いつい 203 200 502 Company

P.O. Box 5387
Fullerton, CA 92838
(714) 449-9937
Fax (714) 449-9685
www.jonesenvironmentallab.com

Chain-of-Custody Record

Analysis Requested Analysis Requested Analysis Requested Page 2 of 2 Lab Use Only Sample Condition as Received: Chilled — yes Ano Sealed Ayes — no	Remarks/Special Instructions		71				Total Number of Containers	The delivery of samples and the signature on this Chain of Custody form constitutes	authorization to perform the analyses specified above under the Terms and Conditions set	forth on the back hereof.
							Date 61/1-1/14	Time (030 S	Date	Time
SP C/min C/min C/min Sold Gas (SG)	1/20	メ					0	-		F
ASS TO	eldring?	X)			
SOIL GAS Purge Number: X1P	Laboratory Sample Number	A-7161-11				7	ignature)	761	 Beceived by Laboratory (signature) 	
ct # Control of the Attention 24-48 Hours ral	Sample Analysis Time			1			Received by (signature)	Company	Received by La	Company
Date O\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Sample Collection Time	09.39					Date 6		4	CO
D.	Date	h//0					Date ov/i	Time	Date	Time
	Purge Volume	53					1			
when when	Purge							0	1	
Client For Environmental Environmental Project Name Project Address So New Port Cart Dr New port Really CAP Project Contact Town Petersen	Sample ID	SUI REP					Relinquished by (signature)	Company Fee En	Relinquished by (signature)	Company

Attachment B

HHRA Modelling

DATA ENTRY SHEET

SG-SCREEN

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Hazard	quotient	from vapor	intrusion to	indoor air,	noncarcinogen	(unitless)
Incremental	risk from	vapor	intrusion to	indoor air,	carcinogen	(unitless)

MESSAGE SUMMARY BELOW:

DATA ENTRY SHEET

SG-SCREEN

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Hazard	quotient	from vapor	intrusion to	indoor air,	noncarcinogen	(unitless)
Incremental	risk from	vapor	intrusion to	indoor air,	carcinogen	(unitless)

MESSAGE SUMMARY BELOW:

END