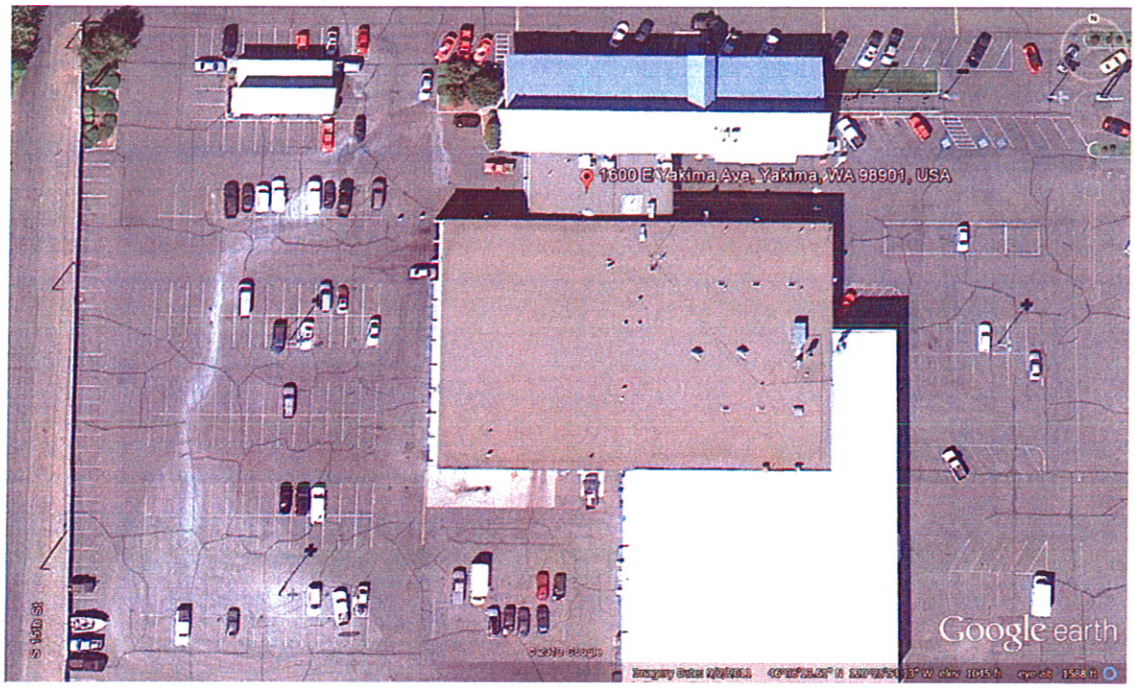
FINAL REPORT

SITE ASSESSMENT, REMEDIAL INVESTIGATION AND CONCLUSIONS

SUNFAIR CHEVROLET
1600 East Yakima Avenue
Yakima, Washington



May 2014
Job No. 13109

PLSA ENGINEERING & SURVEYING
1120 West Lincoln Avenue
Yakima, WA 98902
(509) 575-6990

FINAL REPORT

SITE ASSESSMENT, REMEDIAL INVESTIGATION AND CONCLUSIONS

SUNFAIR CHEVROLET
1600 East Yakima Avenue
Yakima, Washington

Site Name:	Sunfair Chevrolet
Address:	1600 East Yakima Avenue, Yakima, Washington
Facility/Site ID No.:	49569148
Cleanup ID No.:	6173
VCP ID No.:	CE0393

INTRODUCTION

Five underground storage tanks were removed from the Sunfair Chevrolet premises in 1998. See Figure 1, Monitoring Well Locations. Tank Basin No. 3 was found to have petroleum contaminated soil extending below the groundwater. The tank basin excavation was dewatered by pumping and discharge through a coalescing plate oil/water separator and all accessible petroleum contaminated soil was removed. A small amount of petroleum contaminated soil extended beneath the bottom of a concrete slab at the east edge of the tank basin. This soil could not be removed without destroying the slab and was therefore left in place. Groundwater in the excavation was sampled and found to be free of petroleum contamination.

Tank Basin No. 5 was found to contain 792 µg/l methylene chloride, which exceeds the 500 µg/l MCTA cleanup level. Methylene chloride readily volatilizes, so Tank Basin No. 5 was left open for several weeks to allow the methylene chloride to evaporate.

Tank basins were located at the south end of the auto service building. See Figure 1, UST Locations. Project location is in the NW 1/4, NW 1/4, SEC 20, TWP 13N, RNG 18 EWM. Geographical coordinates determined from Yakimap are 46° 36' 14.472"N and -120° 28' 53.999"W. Elevation from Yakimap is 1030.

The owner's representative and contact person for this project follows:

Mr. Bob Hall
Sunfair Chevrolet
1600 East Yakima Avenue
Yakima, WA 98901

509 426 7808

SITE CONDITIONS

Sunfair Chevrolet is one of the largest automobile dealerships in Yakima. The gently sloping site is entirely paved or covered by buildings. Depth to groundwater varies seasonally, but is typically within 10 feet of the ground surface.

HYDRAULIC GRADIENT & GROUNDWATER DEPTH

Table 1
11/5/13

Well No.	NAVD88 TOC Elev.	Groundwater Depth	Static Water Level
2	1031.25	-7.78	1023.47
3	1032.53	-9.06	1023.47
1	1031.25	-8.35	1023.80

With the water level elevations of Well Nos. 2 and 3 being identical, the direction of the hydraulic gradient can't be calculated. However, it is clear the groundwater flows east from Well No.1 toward the other two wells.

Table 2
3/4/14

Well No.	NAVD88 TOC Elev.	Groundwater Depth	Static Water Level
2	1031.25	-8.75	1022.50
3	1032.53	-9.94	1022.59
1	1031.25	-8.95	1022.30

Hydraulic gradient is 180 degrees from true north.

Washington State Plane Coordinates for the monitoring wells are found in the following Table 3:

Table 3
3/4/14

Well No.	NAVD88 TOC Elev.	Northing	Easting
2	1031.25	463158.983	164991.537
3	1031.53	463206.461	164991.021
1	1031.25	463210.664	164954.702

WATER SAMPLING REQUIREMENTS AND PLAN

Washington State Department of Ecology (WDOE) "Guidance for Site Check/Site Assessment for UST" was used to develop the water and soil sampling plan and procedures. Samples were analyzed for waste oil constituents as found in Table 7-2 of the Guidance.

Sample containers were clean glass with Teflon lined screwed caps as supplied by Valley Environmental Laboratory, WDOE Accreditation C345. Sampling equipment was cleaned with non-petroleum based detergent between samplings. All samples were delivered to the nearby laboratory immediately following collection. Water samples were labeled SF1, SF2, and SF3.

After purging a minimum of three casing volumes from each monitoring well, each well was sampled and the sample delivered to Valley Environmental Laboratory for analysis for the constituents listed for gasoline, heavy oils and waste oil and crude oil in the attached, which included NWTPH-HCID, NWTPHD, NWTPHG, BTEX cadmium, chromium, nickel, zinc, PCB, and halogenated VOC in accordance with Table 7-2 of Guidance for Petroleum Contaminated Sites.

SOIL SAMPLING

Monitoring well Numbers 1 and 3 are located in an area that is covered with a concrete slab where automobiles are washed. Well drilling required that a section of the concrete slab approximately one foot in diameter be removed by coring. This allowed visual inspection of the upper two to five feet of the well for possible presence of stained soil or other evidence of contamination. Soil sample collection was by a hand auger which was not successful where large cobbles were encountered. When this occurred, the drill bit was retracted, the chip collector purged, the drill bit re-inserted and the first cuttings from the collector were placed in the sample jar. This procedure enabled sampling from a known elevation. Soil samples were labeled SF1A, SF1B, SF2A, SF2B, SF3A, and SF3B. The A designation indicated that the sample was collected within 1 and 2 feet below the paved surface and the B designation indicates that the sample was collected 5 feet below the A location.

Laboratory testing of soil from UST 3, Well No. 3, included all required testing for waste oil releases as noted in Table 830-1, WAC 173 340. Analysis was in accordance with Table 7.3 of the Guidance for Petroleum Contaminated Sites. Field screening of soil with a photoion detector (PID) and other methods was used in all sampling to determine if contamination was present. No contamination was found using these methods.

SOIL SAMPLE MANAGEMENT

Washington State Department of Ecology (WDOE) "Guidance for Site Check/Site Assessment for UST" was used to develop the water and soil sampling plan and procedures. Sample containers were clean glass with Teflon lined screwed caps as supplied by Valley Environmental Laboratory, WDOE Accreditation C345. Sampling equipment was cleaned with non-petroleum

based detergent between samplings. All samples were delivered to the nearby laboratory immediately following collection.

Soil samples were delivered to Valley Environmental Laboratory for analysis for the constituents listed for gasoline, which included NWTPH-HCID, NWTPHD, NWTPHG, BTEX, and lead in accordance with Table 7-2 of Guidance for Petroleum Contaminated Sites.

INITIAL SOIL ANALYTICAL RESULTS

Soil samples were collected from well drilling cuttings on October 31, 2013 and immediately delivered to Valley Environmental Laboratory, WDOE Certification #153, for analysis. The chain of custody and laboratory analytical report may be found in **Appendix I**. All analytical results were below MCTA levels with the exception of one soil sample in which lead was found to be in excess of the 250 mg/kg Table A value. This sample was collected approximately 4 feet below another sample nearer the surface which showed a very low value for lead and so represents a very small volume of soil and was likely to be result of an isolated lead particle and not representative of the sample location. All other analates were below MCTA Table A values.

INITIAL GROUNDWATER ANALYTICAL RESULTS

The three monitoring well locations are shown in **Figure 1**. The results of initial groundwater sampling may also be found in **Appendix I**. All samples analyzed below MCTA Table A values.

SECOND GROUNDWATER ANALYTICAL RESULTS

On March 4, 2014, groundwater in the three monitoring wells was again sampled. Analytical results may be found in **Appendix II**. All results were either non-detect or within MCTA Table A limits.

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FURTHER ACTION

The three monitoring wells will remain in place. A "No Further Action" statement from the Washington State Department of Ecology is being sought. Otherwise, no further action is planned or recommended.

APPENDIX I

NOVEMBER 2013 ANALYTICAL RESULTS

SOIL AND WATER

CHAIN OF CUSTODY RECORD

201 East D Street
Yakima, WA 98901
(509) 575 – 3999
Fax: (509) 575 - 3068

WORK ORDER ID # _____

PAGE _____ OF _____

THIS INFORMATION WILL BE FOR REPORTING/BILLING (SEE BELOW)

CLIENT: PLSA Engineering + Surveying

ADDRESS: 1120 W. Lincoln Ave.
Yakima, WA 98902

ATTENTION: Brad Card

PROJECT NAME: 13109

PROJECT CONTACT: Brad Card

TELEPHONE: 509 575 6990 FAX: 575 6993

Sampled By: Brad Card

LAB SAM	SAMPLE ID / LOCATION	DATE	TIME	MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	NWTPH-Gx A	NWTPH-Dx A	Method 8 or CYPH	Method 8 or CEPH	BTEX	1,2-Dichloroethane	MTBE EDB	Ethylene Dichloride	EDC Ethanol, methanol TBA, TAME, ETBE	PAH	Naphthalene	Metals Priority Pollutant	PCB	Halogenated VOC	methylene chloride	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
				S																	
	SF2A			S	1	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SF3A			S	1	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
						✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

A. A standard turnaround time is assumed unless otherwise marked. B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE.
2. BE SPECIFIC IN TEST REQUESTS.
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE

BILLING INFORMATION IF DIFFERENT THAN ABOVE

NAME
ADDRESS
ATTN:
CITY,STATE,ZIP

* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TOTAL NO. OF CONTAINERS

- [x] Standard 10 Business Days
- [ ] 24-48 Hrs. 100% Rush
- [ ] 3-Day Rush – 80%
- [ ] 1 week Rush – 50%

RELINQUISHED BY (SIGN AND PRINT)	DATE / TIME	RECEIVED BY (SIGN AND PRINT)	DATE / TIME
B. Card	10/31/13 1512		10/31/13 1515
B. Card			

Finance charges and/or collection fees may be applied to delinquent accounts.

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

IOC PP Metals

Lab/Sample No: Below	Date Collected: 11/01/13	
Date Received: 11/04/13	Date Reported: 11/20/13	Supervisor: BKO
	Sampled By: Brad Card	
Sample Location: See Below		Invoice#: 26190

Send Report To:	Sample Information	Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	Pjt# 13109	

IOC PP Metals

VEL Sample Number:		1530326	1533527	1533528	15303529				
Sample ID/Location:		SF1A	SF1B	SF3A	SF3B				
Analyte	Units	Results	Results	Results	Results	MRL	Method	Date Analyzed	Analyst
Arsenic	mg/Kg	79.5	63.2	71.3	17.7	10.0	SM 3113B	11/01/13	BKO
Barium	mg/Kg	ND	ND	ND	ND	1000	SM 3113B	11/20/13	BKO
Cadmium	mg/Kg	ND	ND	ND	ND	10.0	SM 3113B	11/12/13	BKO
Chromium	mg/Kg	52.0	45.0	65.0	21.0	10.0	SM 3113B	11/19/13	BKO
Mercury	mg/Kg	0.052	0.051	0.176	0.126	0.05	EPA 6020A	11/15/13	AAL
Selenium	mg/Kg	ND	ND	ND	ND	10.0	SM 3113B	11/20/13	BKO
Beryllium	mg/Kg	ND	ND	ND	ND	10.0	SM 3113B	11/18/13	BKO
Nickel	mg/Kg	37.8	39.6	62.8	66.8	10.0	SM 3113B	11/19/13	BKO
Antimony	mg/Kg	34.1	25.8	31.2	13.7	10.0	SM 3113B	11/06/13	BKO
Thallium	mg/Kg	ND	ND	14.2	17.8	10.0	SM 3113B	11/11/13	BKO
Silver	mg/Kg	23.0	12.0	11.0	13.0	10.0	SM 3113B	11/12/13	BKO
Zinc	mg/Kg	262.0	305.0	328.0	161.0	100	SM 3111B	11/07/13	BKO
Lead	mg/Kg	107.8	937.0	130.4	11.0	10.0	SM 3113B	11/13/13	BKO
Copper	mg/Kg	35.4	30.8	33.2	ND	10.0	SM 3111B	11/06/13	BKO

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (always >MDL).

Trigger: DOH Drinking Water response level.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL.

Approved By: _____

03526-ppmetals

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

NWTPH-HCID

Lab/Sample No: Below	Date Collected: 11/01/13	
Date Received: 11/04/13	Date Reported: 11/25/13	Supervisor: BKO
	Sampled By: Brad Card	
Sample Location: See Below		Invoice#: 26190

Send Report To:	Sample Information	Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	Pjt# 13109	

NWTPH-HCID

VEL Sample Number:		15303526	15303527	15303528	15303529				
Sample ID/Location:		SF1A	SF1B	SF3A	SF3B				
Analyte	Units	Results	Results	Results	Results	MRL	Method	Date Analyzed	Analyst
Hydrocarbon ID		None	None	None	None		NWTPH-HCID	11/07/13	JAH
% Surrogate Recovery	%	101.1	86.1	86.8	76.4		(50 - 150)	11/07/13	JAH
Diesel	mg/kg	ND	ND	ND	ND	50	NWTPH-Dx	11/07/13	JAH
Gas	mg/kg	ND	ND	ND	ND	20	NWTPH- Gx	11/07/13	JAH
Ethanol	mg/kg	ND	ND	ND	ND	50	GC/FID	11/12/13	AAL
Methanol	mg/kg	ND	ND	ND	ND	50	GC/FID	11/12/13	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (always >MDL).

Trigger: DOH Drinking Water response level.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL.

Approved By: _____

03526-hcid

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

PCB's (Soil)

Lab/Sample No: Below	Date Collected: 11/01/13	
Date Received: 11/04/13	Date Reported: 11/25/13	Supervisor: BKO
	Sampled By: Brad Card	
Sample Location: See Below		Invoice#: 26190

Send Report To:	Sample Information	Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	Pjt# 13109	

PCB's (Soil)

VEL Sample Number:		15303526	15303527	15303528	15303529			
Sample ID/Location:		SF1A	SF1B	SF3A	SF3B			
Analyte	Units	Results	Results	Results	Results	MRL	Method	Date Analyzed Analyst
PCB's	mg/kg	ND	ND	ND	ND	0.10	EPA 8082	11/15/13 AAL
Surrogate Standard						Control Limits		
DCB	%	111	90.8	80	93.2	30 -130	EPA 8082	11/15/13 AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (always >MDL).

Trigger: DOH Drinking Water response level.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL.

Approved By: _____

03526-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons

Lab/Sample No: Below	Date Collected: 11/01/13	
Date Received: 11/04/13	Date Reported: 11/25/13	Supervisor: BKO
	Sampled By: Brad Card	
Sample Location: See Below		Invoice#: 26190

Send Report To:	Sample Information	Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	Pjt# 13109	

Polynuclear Aromatic Hydrocarbons

VEL Sample Number:		15303526	15303527	15303528	15303529				
Sample ID/Location:		SF1A	SF1B	SF3A	SF3B				
Analyte	Units	Results	Results	Results	Results	MRL	Method	Date Analyzed	Analyst
Acenaphthene	mg/kg	ND	ND	ND	ND	0.01	EPA 8270D	11/19/13	AAL
Acenaphthylene	mg/kg	0.0111	ND	ND	ND	0.01	EPA 8270D	11/19/13	AAL
Anthracene	mg/kg	ND	ND	ND	ND	0.01	EPA 8270D	11/19/13	AAL
Benzo(a)anthracene	mg/kg	ND	0.0256	0.0377	ND	0.01	EPA 8270D	11/19/13	AAL
Benzo(a)pyrene	mg/kg	0.0174	0.0152	0.0210	ND	0.01	EPA 8270D	11/19/13	AAL
Benzo(b)fluoranthene	mg/kg	0.0182	0.2650	0.0403	ND	0.01	EPA 8270D	11/19/13	AAL
Benzo(ghi)perylene	mg/kg	0.0254	0.0232	0.0572	ND	0.01	EPA 8270D	11/19/13	AAL
Benzo(k)fluoranthene	mg/kg	ND	ND	0.0224	ND	0.01	EPA 8270D	11/19/13	AAL
Chrysene	mg/kg	ND	0.0108	0.0342	ND	0.01	EPA 8270D	11/19/13	AAL
Dibenzo(ah)anthracene	mg/kg	ND	ND	ND	ND	0.01	EPA 8270D	11/19/13	AAL
Fluoranthene	mg/kg	0.0201	0.0198	0.0442	0.0105	0.01	EPA 8270D	11/19/13	AAL
Fluorene	mg/kg	ND	ND	ND	ND	0.01	EPA 8270D	11/19/13	AAL
Indeno(1,2,3-cd)pyrene	mg/kg	0.0209	0.0257	0.0395	ND	0.01	EPA 8270D	11/19/13	AAL
Naphthalene	mg/kg	0.0188	0.0121	0.0344	0.0102	0.01	EPA 8270D	11/19/13	AAL
Phenanthrene	mg/kg	0.0248	0.0199	0.0482	0.0149	0.01	EPA 8270D	11/19/13	AAL
Pyrene	mg/kg	0.2790	0.0235	0.0483	0.0116	0.01	EPA 8270D	11/19/13	AAL
2-MethylNapthalene	mg/kg	0.0165	0.0124	0.0378	0.0116	0.01	EPA 8270D	11/19/13	AAL
Surrogate Standard									
Terphenyl-d14	%	91.9	93.3	91.0	83.1	18-137	EPA 8270D	11/19/13	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (always >MDL).

Trigger: DOH Drinking Water response level.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL.

Approved By:

03526-8270pah

VALLEY Environmental Laboratory
201 East D St.
Yakima, WA 98901
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: See Below**	**Date Reported:** 11/25/13 **Date Collected:** 11/01/13 **Time Collected:** 11:00 AM **Sampled By:** Brad Card
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Pjt# 13109**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

VEL Sample #	3526	3527	3528	3529	
Sample ID	SF1A	SF1B	SF3A	SF3B	
Units	mg/kg	mg/kg	mg/kg	mg/kg	Limits
Check Standards - Ave.Recovery:					
1,2-Dichlorobenzene-d4	100.0%	98.4%	100.0%	92.0%	(70-130)
4-Bromofluorobenzene	100.8%	100.8%	100.8%	98.8%	(70-130)
Toluene-d8	101.6%	102.0%	102.0%	100.8%	(70-130)
Dichlorodifluoromethane	ND	ND	ND	ND	0.005
Chloromethane	ND	ND	ND	ND	0.005
Vinyl chloride	ND	ND	ND	ND	0.005
Bromomethane	ND	ND	ND	ND	0.005
Chloroethane	ND	ND	ND	ND	0.005
Acetone	ND	ND	ND	ND	0.005
Acrolein	ND	ND	ND	ND	0.005
1,1-Dichloroethylene	ND	ND	ND	ND	0.005
Methylene chloride	ND	ND	ND	ND	0.005
Acrylonitrile	ND	ND	ND	ND	0.005
trans-1,2-Dichloroethylene	ND	ND	ND	ND	0.005
1,1-Dichloroethane	ND	ND	ND	ND	0.005
Methyl ethyl ketone (MEK)	ND	ND	ND	ND	0.005
cis-1,2-Dichloroethylene	ND	ND	ND	ND	0.005
2,2-Dichloropropane	ND	ND	ND	ND	0.005
Chloroform	ND	ND	ND	ND	0.005
Bromochloromethane	ND	ND	ND	ND	0.005
1,1,1-Trichloroethane	ND	ND	ND	ND	0.005
1,2-Dichloroethane	ND	ND	ND	ND	0.005
1,1-Dichloropropene	ND	ND	ND	ND	0.005
Carbon tetrachloride	ND	ND	ND	ND	0.005
Benzene	ND	ND	ND	ND	0.005
Trichloroethylene	ND	ND	ND	ND	0.005
Date Analyzed:	11/13/2013	11/13/2013	11/13/2013	11/13/2013	
Analyst:	AAL	AAL	AAL	AAL	

ND = None Detected

VALLEY Environmental Laboratory
201 East D St.
Yakima, WA 98901
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)				
VEL Sample #	3526	3527	3528	3529	
Sample ID	SF1A	SF1B	SF3A	SF3B	
Units	mg/kg	mg/kg	mg/kg	mg/kg	Limits
1,2-Dichloropropane	ND	ND	ND	ND	0.005
Dibromomethane	ND	ND	ND	ND	0.005
Bromodichloromethane	ND	ND	ND	ND	0.005
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.005
Toluene	0.007	0.0058	ND	ND	0.005
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.005
1,1,2-Trichloroethane	ND	ND	ND	ND	0.005
1,3-Dichloropropane	ND	ND	ND	ND	0.005
Dibromochloromethane	ND	ND	ND	ND	0.005
Tetrachloroethylene	ND	ND	0.0170	ND	0.005
1,2-Dibromoethane	ND	ND	ND	ND	0.005
Chlorobenzene	ND	ND	ND	ND	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	0.005
Ethylbenzene	ND	ND	ND	ND	0.005
m,p-Xylene	0.0095	0.0102	0.0062	ND	0.005
Styrene	ND	ND	ND	ND	0.005
o-Xylene	0.0056	ND	ND	ND	0.005
Bromoform	ND	ND	ND	ND	0.005
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.005
1,2,3-Trichloropropane	ND	ND	ND	ND	0.005
Bromobenzene	ND	ND	ND	ND	0.005
n-Propylbenzene	ND	ND	ND	ND	0.005
2-Chlorotoluene	ND	ND	ND	ND	0.005
4-Chlorotoluene	ND	ND	ND	ND	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	ND	0.005
tert-Butylbenzene	ND	ND	ND	ND	0.005
1,2,4-Trimethylbenzene	ND	0.0055	ND	ND	0.005
sec-Butylbenzene	ND	ND	ND	ND	0.005
1,3-Dichlorobenzene	ND	ND	ND	ND	0.005
1,4-Dichlorobenzene	ND	ND	ND	ND	0.005
4-Isopropyltoluene	ND	ND	ND	ND	0.005
1,2-Dichlorobenzene	ND	ND	ND	ND	0.005
n-Butylbenzene	ND	ND	ND	ND	0.005
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.005
Naphthalene	0.013	ND	ND	0.0110	0.005
AAL	11/13/2013	11/13/2013	11/13/2013	11/13/2013	
Analyst:	AAL	AAL	AAL	AAL	

VALLEY Environmental Laboratory
201 East D St.
Yakima, WA 98901
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)				
VEL Sample #	3526	3527	3528	3529	
Sample ID	SF1A	SF1B	SF3A	SF3B	
Units	mg/kg	mg/kg	mg/kg	mg/kg	Limits
1,1,1-Trichloroethane	ND	ND	ND	ND	0.005
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.005
1,1-Dichloroethene	ND	ND	ND	ND	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	ND	0.005
1,2-Dichloroethane	ND	ND	ND	ND	0.005
2-hexanone	ND	ND	ND	ND	0.005
Bromoform	ND	ND	ND	ND	0.005
Carbon disulfide	ND	ND	ND	ND	0.005
Chlorobenzene	ND	ND	ND	ND	0.005
cis-1,2-dichloroethene	ND	ND	ND	ND	0.005
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.005
Hexachlorobutadiene	ND	ND	ND	ND	0.005
Isopropylbenzene	ND	ND	ND	ND	0.005
Methyl Isobutyl ketone (MIBK)	ND	ND	ND	ND	0.005
methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	0.005
p-siopropyltoluene	ND	ND	ND	ND	0.005
tert-Butylbenzene	ND	ND	ND	ND	0.005
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.005
Trichlorofluoromethane	ND	ND	ND	ND	0.005
Date Analyzed:	11/13/2013	11/13/2013	11/13/2013	11/13/2013	
Analyst:	AAL	AAL	AAL	AAL	

CHAIN OF CUSTODY RECORD

201 East D Street
Yakima, WA 98901
(509) 575 – 3999
Fax: (509) 575 - 3068

WORK ORDER ID # _____

PAGE _____ OF _____

THIS INFORMATION WILL BE FOR REPORTING/BILLING (SEE BELOW)

CLIENT: PLSA Engineering + Surveying

ADDRESS: 1120 W. Lincoln Ave.
Yakima, WA 98902

ATTENTION: Brad Card

PROJECT NAME: 13109

PROJECT CONTACT: Brad Card

TELEPHONE: 509 575 6990 FAX: 575 6993

Sampled By: Brad Card

TESTS TO PERFORM

LAB SAMPLE #	SAMPLE ID / LOCATION	DATE	TIME	MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	NWTPH-Gx A A	NWTPH-Dx A	Method B or C VPH	Method B or C EPH	BTEX	1,2-Dichloroethane	MTBE 8260	Ethylene Dichloride	1,2 DC	Ethanol, methanol TBA, TAME, ETBE	PAH	Naphthalene	Metals Priority Pollutant	PCB	Halogenated VOC	methylene chloride	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
	SF1			W		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SF2			W		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SF3			W		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

A. A standard turnaround time is assumed unless otherwise marked. B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE.
2. BE SPECIFIC IN TEST REQUESTS.
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE

BILLING INFORMATION, IF DIFFERENT THAN ABOVE

NAME

ADDRESS

ATTN:

CITY,STATE,ZIP

* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TOTAL NO. OF CONTAINERS

- [x] Standard 10 Business Days
- [ ] 24-48 Hrs. 100% Rush
- [ ] 3-Day Rush – 80%
- [ ] 1 week Rush – 50%

RELINQUISHED BY (SIGN AND PRINT)	DATE / TIME	RECEIVED BY (SIGN AND PRINT)	DATE / TIME
B. Card	11/5/13 1140	Valley Lab	11:39 11/5/13

Finance charges and/or collection fees may be applied to delinquent accounts.

VALLEY Environmental Laboratory
201 East D St.
Yakima, WA 98901
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: See Below**	**Date Reported:** 11/25/13 **Date Collected:** 11/05/13 **Time Collected:** 8:00 AM **Sampled By:** Brad Card
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**13109**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Water

VEL Sample #	03604	3605	3606	
Sample ID	SF1	SF2	SF3	
Units	ug/L	ug/L	ug/L	Limits
Check Standards - Ave.Recovery:				
1,2-Dichlorobenzene-d4	101.6%	101.6%	102.8%	(70-130)
4-Bromofluorobenzene	100.0%	100.8%	100.8%	(70-130)
Toluene-d8	101.2%	100.4%	100.4%	(70-130)
Dichlorodifluoromethane	ND	ND	ND	0.50
Chloromethane	ND	ND	ND	0.50
Vinyl chloride	ND	ND	ND	0.50
Bromomethane	ND	ND	ND	0.50
Chloroethane	ND	ND	ND	0.50
Acetone	ND	ND	ND	5.00
Acrolein	ND	ND	ND	0.50
1,1-Dichloroethylene	ND	ND	ND	0.50
Methylene chloride	ND	ND	ND	5.00
Acrylonitrile	ND	ND	ND	0.50
trans-1,2-Dichloroethylene	ND	ND	ND	0.50
1,1-Dichloroethane	ND	ND	ND	0.50
Methyl ethyl ketone (MEK)	ND	ND	ND	5.00
cis-1,2-Dichloroethylene	ND	ND	ND	0.50
2,2-Dichloropropane	ND	ND	ND	0.50
Chloroform	ND	ND	ND	0.50
Bromochloromethane	ND	ND	ND	0.50
1,1,1-Trichloroethane	ND	ND	ND	0.50
1,2-Dichloroethane	ND	ND	ND	0.50
1,1-Dichloropropene	ND	ND	ND	0.50
Carbon tetrachloride	ND	ND	ND	0.50
Benzene	ND	ND	ND	0.50
Trichloroethylene	ND	ND	ND	0.50
Date Analyzed:	11/13/2013	11/13/2013	11/13/2013	
Analyst:	AAL	AAL	AAL	

ND = None Detected

VALLEY Environmental Laboratory
201 East D St.
Yakima, WA 98901
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)			
VEL Sample #	03604	3605	3606	
Sample ID	SF1	SF2	SF3	
Units	ug/L	ug/L	ug/L	Limts
1,2-Dichloropropane	ND	ND	ND	0.50
Dibromomethane	ND	ND	ND	0.50
Bromodichloromethane	ND	ND	ND	0.50
cis-1,3-Dichloropropene	ND	ND	ND	0.50
Toluene	ND	ND	ND	0.50
trans-1,3-Dichloropropene	ND	ND	ND	0.50
1,1,2-Trichloroethane	ND	ND	ND	0.50
1,3-Dichloropropane	ND	ND	ND	0.50
Dibromochloromethane	ND	ND	ND	0.50
Tetrachloroethylene	ND	ND	ND	0.50
1,2-Dibromoethane	ND	ND	ND	0.50
Chlorobenzene	ND	ND	ND	0.50
1,1,1,2-Tetrachloroethane	ND	ND	ND	0.50
Ethylbenzene	ND	ND	ND	0.50
m,p-Xylene	ND	ND	ND	0.50
Styrene	ND	ND	ND	0.50
o-Xylene	ND	ND	ND	0.50
Bromoform	ND	ND	ND	0.50
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.50
1,2,3-Trichloropropane	ND	ND	ND	0.50
Bromobenzene	ND	ND	ND	0.50
n-Propylbenzene	ND	ND	ND	0.50
2-Chlorotoluene	ND	ND	ND	0.50
4-Chlorotoluene	ND	ND	ND	0.50
1,3,5-Trimethylbenzene	ND	ND	ND	0.50
tert-Butylbenzene	ND	ND	ND	0.50
1,2,4-Trimethylbenzene	ND	ND	ND	0.50
sec-Butylbenzene	ND	ND	ND	0.50
1,3-Dichlorobenzene	ND	ND	ND	0.50
1,4-Dichlorobenzene	ND	ND	ND	0.50
4-Isopropyltoluene	ND	ND	ND	0.50
1,2-Dichlorobenzene	ND	ND	ND	0.50
n-Butylbenzene	ND	ND	ND	0.50
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.50
1,2,4-Trichlorobenzene	ND	ND	ND	0.50
Naphthalene	ND	ND	ND	0.50
Date Analyzed:	11/13/2013	11/13/2013	11/13/2013	
Analyst:	AAL	AAL	AAL	

VALLEY Environmental Laboratory
201 East D St.
Yakima, WA 98901
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)			
VEL Sample #	03604	3605	3606	
Sample ID	SF1	SF2	SF3	
Units	ug/L	ug/L	ug/L	Limts
1,1,1-Trichloroethane	ND	ND	ND	0.50
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.50
1,1-Dichloroethene	ND	ND	ND	0.50
1,2,3-Trichlorobenzene	ND	ND	ND	0.50
1,2-Dichloroethane	ND	ND	ND	0.50
2-hexanone	ND	ND	ND	0.50
Bromoform	ND	ND	ND	0.50
Carbon disulfide	ND	ND	ND	0.50
Chlorobenzene	ND	ND	ND	0.50
cis-1,2-dichloroethene	ND	ND	ND	0.50
cis-1,3-Dichloropropene	ND	ND	ND	0.50
Hexachlorobutadiene	ND	ND	ND	0.50
Isopropylbenzene	ND	ND	ND	0.50
Methyl Isobutyl ketone (MIBK)	ND	ND	ND	0.50
methyl-t-butyl ether (MTBE)	ND	ND	ND	0.50
p-siopropyltoluene	ND	ND	ND	0.50
tert-Butylbenzene	ND	ND	ND	0.50
trans-1,2-Dichloroethene	ND	ND	ND	0.50
Trichlorofluoromethane	ND	ND	ND	0.50
Date Analyzed:	11/13/2013	11/13/2013	11/13/2013	
Analyst:	AAL	AAL	AAL	

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

NWTPH-HCID

Lab/Sample No: Below	Date Collected: 11/05/13	
Date Received: 11/05/13	Date Reported: 11/25/13	Supervisor: BKO
	Sampled By: Brad Card	
Sample Location: See Below		Invoice#: 26197

Send Report To:	Sample Information	Matrix: Water
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	13109	

NWTPH-HCID

VEL Sample Number:		15303604	15303605	15303606			
Sample ID/Location:		SF1	SF2	SF3			
Analyte	Units	Results	Results	Results	MRL	Method	Date Analyzed / Analyst
Hydrocarbon ID		None	None	None		NWTPH-HCID	11/07/13 JAH
% Surrogate Recovery	%	79.6	98	74		(50 - 150)	11/07/13 JAH
Diesel	mg/L	ND	ND	ND	50	NWTPH-Dx	11/07/13 JAH
Gas	mg/L	ND	ND	ND	20	NWTPH- Gx	11/07/13 JAH
Ethanol	mg/L	ND	ND	ND	10	GC/FID	11/12/13 AAL
Methanol	mg/L	ND	ND	ND	10	GC/FID	11/12/13 AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (always >MDL).

Trigger: DOH Drinking Water response level.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL.

Approved By:

03604-hcid

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons

Lab/Sample No: Below	Date Collected: 11/05/13	
Date Received: 11/05/13	Date Reported: 11/25/13	Supervisor: BKO
	Sampled By: Brad Card	
Sample Location: See Below		Invoice#: 26197

Send Report To:	Sample Information	Matrix: Water
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	13109	

Polynuclear Aromatic Hydrocarbons

VEL Sample Number:		15303604	15303605	15303606				
Sample ID/Location:		SF1	SF2	SF3				
Analyte	Units	Results	Results	Results	MRL:	Method	Date Analyzed	Analyst
Acenaphthene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Acenaphthylene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Anthracene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Benzo(a)anthracene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Benzo(a)pyrene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Benzo(b)fluoranthene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Benzo(ghi)perylene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Benzo(k)fluoranthene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Chrysene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Dibenzo(ah)anthracene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Fluoranthene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Fluorene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Naphthalene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Phenanthrene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Pyrene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
1-MethylNapthalene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
2-MethylNapthalene	ug/L	ND	ND	ND	0.03	EPA 8270D	11/19/13	AAL
Surrogate Standard:					Control Limits			
Terphenyl-d14	%	79.40	91.70	95.90	(10 - 125)	EPA 8270D	11/19/13	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (always >MDL).

Trigger: EOH Drinking Water response level.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL.

Approved By:

03604-8270pah

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

PCB's (Soil)

Lab/Sample No: Below	**Date Collected: 11/05/13**	
Date Received: 11/05/13	**Date Reported: 11/25/13**	**Supervisor: BKO**
	Sampled By: Brad Card	
Sample Location: See Below		**Invoice#: 26197**

Send Report To:	**Sample Information**	**Matrix: Water**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**13109**	

PCB's (Soil)

VEL Sample Number:		**15303604**	**15303605**	**15303606**				
Sample ID/Location:		**SF1**	**SF2**	**SF3**				
Analyte	**Units**	**Results**	**Results**	**Results**	**MRL**	**Method**	**Date Analyzed**	**Analyst**
PCB's	ug/L	ND	ND	ND	0.20	EPA 8082	11/14/13	AAL
Surrogate Standard					Control Limit			
DCB	%	102.80	105.60	94.60	(30 - 130)	EPA 8082	11/14/13	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (always >MDL).

Trigger: DOH Drinking Water response level.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL.

Approved By:

03604-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

IOC PP Metals

Lab/Sample No: Below	Date Collected: 11/05/13	
Date Received: 11/05/13	Date Reported: 11/25/13	Supervisor: BKO
	Sampled By: Brad Card	
Sample Location: See Below		Invoice#: 26197

Send Report To:	Sample Information	Matrix: Water
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	13109	

IOC PP Metals

VEL Sample Number:		15303604	15303605	15303606					
Sample ID/Location:		SF1	SF2	SF3					
Analyte	Units	Results	Results	Results	MRL	Method	Date Analyzed	Analyst	
Arsenic	mg/L	0.0028	0.0026	0.0025	0.001	EPA 200.9	11/05/13	BKO	
Barium	mg/L	ND	ND	ND	0.10	EPA 200.8	11/20/13	BKO	
Cadmium	mg/L	0.0015	0.0014	0.0015	0.001	EPA 200.8	11/12/13	BKO	
Chromium	mg/L	ND	ND	ND	0.01	EPA 200.8	11/19/13	BKO	
Mercury	mg/L	ND	ND	ND	0.0002	EPA 245.1	11/25/13	BKO	
Selenium	mg/L	ND	ND	ND	0.002	EPA 200.9	11/19/13	BKO	
Beryllium	mg/L	ND	ND	ND	0.0005	EPA 200.8	11/18/13	BKO	
Nickel	mg/L	ND	ND	ND	0.01	EPA 200.8	11/19/13	BKO	
Antimony	mg/L	0.0039	0.0043	0.0041	0.003	EPA 200.9	11/16/13	BKO	
Thallium	mg/L	0.0014	ND	ND	0.002	EPA 200.9	11/07/13	BKO	
Silver	mg/L	ND	ND	ND	0.01	EPA 200.8	11/12/13	BKO	
Zinc	mg/L	0.0322	0.0270	0.0211	0.02	EPA 200.8	11/07/13	BKO	
Lead	mg/L	0.0079	0.0034	0.0011	0.001	EPA 200.9	11/13/13	BKO	
Copper	mg/L	ND	ND	ND	0.020	EPA 200.7	11/11/13	BKO	

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (always >MDL).

Trigger: DOH Drinking Water response level.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL.

Approved By: _____

201 East D Street Yakima, WA 98901 509-575-3999 Fax: 509-575-3068

03604-ppmetals

APPENDIX II

MARCH 2014 ANALYTICAL RESULTS

CHAIN OF CUSTODY RECORD

201 East D Street
Yakima, WA 98901
(509) 575 – 3999
Fax: (509) 575 - 3068

WORK ORDER ID # _____

PAGE _____ OF _____

THIS INFORMATION WILL BE FOR REPORTING/BILLING (SEE BELOW)

CLIENT: PLSA Engineering + Surveying

ADDRESS: 1120 W. Lincoln Ave
Yakima, WA 98902

ATTENTION: Brad Card

PROJECT NAME: 13109

PROJECT CONTACT: Brad Card

TELEPHONE: 509 575 6990 FAX: 575 6998

Sampled By: Brad Card

LAB SA#	SAMPLE ID / LOCATION	DATE	TIME	MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	TESTS TO PERFORM: NTPH-HCID	BTEX 8260	Dissolved Lead														OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
	SF 21			W	3	✓	✓	✓														
	SF 22			W	3	✓	✓	✓														
	SF 23			W	3	✓	✓	✓														

A. A standard turnaround time is assumed unless otherwise marked. B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE.
2. BE SPECIFIC IN TEST REQUESTS.
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE

BILLING INFORMATION IF DIFFERENT THAN ABOVE

NAME: PLSA Engineering + Surveying
ADDRESS:
ATTN:
CITY STATE ZIP:

* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TOTAL NO. OF CONTAINERS

- [x] Std. 10-14 Business Days
- [ ] 24-48 Hrs. 100% Rush
- [ ] 3-Day Rush – 80%
- [ ] 1 week Rush – 50%

RELINQUISHED BY (SIGN AND PRINT)	DATE / TIME	RECEIVED BY (SIGN AND PRINT)	DATE / TIME
Brad Card	3/4/14 1430	JAH UL	3/4/14 14:24

Finance charges and/or collection fees may be applied to delinquent accounts.

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

NWTPH-HCID

Date Collected: 03/04/14	
Lab/Sample No: 153-30403	County: YAKIMA
Sample Location: SF21	
	Date Received: 03/04/14
	Date Reported: 03/13/14
	Sample Collected By: Brad Card

Send Report To:	SAMPLE COMMENTS Matrix: Water
PLSA Engineering Attn: Brad Card 1120 West Lincoln Avenue Yakima, WA 98902	Project 13109

NWTPH-HCID

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Hydrocarbon ID	None					NWTPH-HCID	03/06/14	JAH
	% Surrogate Recovery	73.4	%				(50 - 150)	03/06/14	JAH
	Diesel	ND	ppm	0.005			NWTPH-Dx	03/06/14	JAH
	Gas	ND	ppm	0.005			NWTPH-Gx	03/06/14	JAH
	Oil	ND	ppm	0.005			NWTPH-Dx	03/06/14	JAH

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

201 East D Street Yakima, WA 98901 509-575-3999 Fax: 509-575-3068

30403-hcid

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 03/04/14	
Lab/Sample No: 153-30403	County: YAKIMA
Sample Location: SF21	
	Date Received: 03/04/14
	Date Reported: 03/20/14
	Sample Collected By: Brad Card

Send Report To:	SAMPLE COMMENTS Matrix: Water
PLSA Engineering Attn: Brad Card 1120 West Lincoln Avenue Yakima, WA 98902	Project 13109

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL
	Toluene	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL
	Ethylbenzene	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL
	Xylenes	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

201 East D Street Yakima, WA 98901 509-575-3999 Fax: 509-575-3068

30403-btex

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

IOC PP Metals

Date Collected: 03/04/14	
Lab/Sample No: 153-30403	County: YAKIMA
Sample Location: SF21	
	Date Received: 03/04/14
	Date Reported: 03/20/14
	Sample Collected By: Brad Card

Send Report To:	SAMPLE COMMENTS Matrix: WW
PLSA Engineering Attn: Brad Card 1120 West Lincoln Avenue Yakima, WA 98902	Project 13109

IOC PP Metals

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
4	Arsenic	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
5	Barium	**0.018**	mg/L	0.001			EPA 200.8	03/12/14	AAL
6	Cadmium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
7	Chromium	**0.00106**	mg/L	0.001			EPA 200.8	03/12/14	AAL
11	Mercury	**ND**	mg/L	0.01			EPA 245.7	03/14/14	AAL
12	Selenium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
110	Beryllium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
111	Nickel	**0.00177**	mg/L	0.001			EPA 200.8	03/12/14	AAL
112	Antimony	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
113	Thallium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
13	Silver	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
24	Zinc	**0.00396**	mg/L	0.001			EPA 200.8	03/12/14	AAL
9	Lead	**0.00141**	mg/L	0.001			EPA 200.8	03/12/14	AAL
23	Copper	**0.00239**	mg/L	0.001			EPA 200.8	03/12/14	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

201 East D Street Yakima, WA 98901 509-575-3999 Fax: 509-575-3068

30403-ppmetals

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

NWTPH-HCID

Date Collected: 03/04/14	
Lab/Sample No: 153-30404	County: YAKIMA
Sample Location: SF22	
	Date Received: 03/04/14
	Date Reported: 03/17/14
	Sample Collected By: Brad Card

Send Report To:	SAMPLE COMMENTS Matrix: Water
PLSA Engineering Attn: Brad Card 1120 West Lincoln Avenue Yakima, WA 98902	Project 13109

NWTPH-HCID

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Hydrocarbon ID	None					NWTPH-HCID	03/06/14	JAH
	% Surrogate Recovery	93.6	%				(50 - 150)	03/06/14	JAH
	Diesel	ND	ppm	0.005			NWTPH-Dx	03/06/14	JAH
	Gas	ND	ppm	0.005			NWTPH-Gx	03/06/14	JAH
	Oil	ND	ppm	0.005			NWTPH-Dx	03/06/14	JAH

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

201 East D Street Yakima, WA 98901 509-575-3999 Fax: 509-575-3068

30404-hcid

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 03/04/14	
Lab/Sample No: 153-30404	County: YAKIMA
Sample Location: SF22	
	Date Received: 03/04/14
	Date Reported: 03/20/14
	Sample Collected By: Brad Card

Send Report To:	SAMPLE COMMENTS Matrix: Water
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	Project 13109

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL
	Toluene	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL
	Ethylbenzene	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL
	Xylenes	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

201 East D Street Yakima, WA 98901 509-575-3999 Fax: 509-575-3068

30404-btex

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

IOC PP Metals

Date Collected: 03/04/14	
Lab/Sample No: 153-30404	County: YAKIMA
Sample Location: SF22	
	Date Received: 03/04/14
	Date Reported: 03/20/14
	Sample Collected By: Brad Card

Send Report To:	SAMPLE COMMENTS Matrix: WW
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	Project 13109

IOC PP Metals

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
4	Arsenic	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
5	Barium	**0.0104**	mg/L	0.001			EPA 200.8	03/12/14	AAL
6	Cadmium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
7	Chromium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
11	Mercury	**ND**	mg/L	0.01			EPA 245.7	03/14/14	AAL
12	Selenium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
110	Beryllium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
111	Nickel	**0.0011**	mg/L	0.001			EPA 200.8	03/12/14	AAL
112	Antimony	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
113	Thallium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
13	Silver	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
24	Zinc	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
9	Lead	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
23	Copper	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

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201 East D Street Yakima, WA 98901 509-575-3999 Fax: 509-575-3068

30404-ppmetals

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

NWTPH-HCID

Date Collected: 03/04/14	
Lab/Sample No: 153-30405	County: YAKIMA
Sample Location: SF23	
	Date Received: 03/04/14
	Date Reported: 03/17/14
	Sample Collected By: Brad Card

Send Report To:	SAMPLE COMMENTS Matrix: Water
PLSA Engineering Attn: Brad Card 1120 West Lincoln Avenue Yakima, WA 98902	Project 13109

NWTPH-HCID

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Hydrocarbon ID	None					NWTPH-HCID	03/06/14	JAH
	% Surrogate Recovery	95.4	%				(50 - 150)	03/06/14	JAH
	Diesel	ND	ppm	0.005			NWTPH-Dx	03/06/14	JAH
	Gas	ND	ppm	0.005			NWTPH-Gx	03/06/14	JAH
	Oil	ND	ppm	0.005			NWTPH-Dx	03/06/14	JAH

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

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201 East D Street Yakima, WA 98901 509-575-3999 Fax: 509-575-3068

30405-hcid

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 03/04/14	
Lab/Sample No: 153-30405	County: YAKIMA
Sample Location: SF23	
	Date Received: 03/04/14
	Date Reported: 03/20/14
	Sample Collected By: Brad Card

Send Report To:	SAMPLE COMMENTS Matrix: Water
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	Project 13109

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL
	Toluene	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL
	Ethylbenzene	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL
	Xylenes	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

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Approved By: _____

201 East D Street Yakima, WA 98901 509-575-3999 Fax: 509-575-3068

30405-btex

VALLEY Environmental Laboratory

Washington State Certified Lab #153 - DOE Accredited Lab C345

IOC PP Metals

Date Collected: 03/04/14	
Lab/Sample No: 153-30405	County: YAKIMA
Sample Location: SF23	
	Date Received: 03/04/14
	Date Reported: 03/20/14
	Sample Collected By: Brad Card

Send Report To:	SAMPLE COMMENTS Matrix: WW
PLSA Engineering Attn: Brad Card 1120 West Lincoln Avenue Yakima, WA 98902	Project 13109

IOC PP Metals

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
4	Arsenic	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
5	Barium	**0.00882**	mg/L	0.001			EPA 200.8	03/12/14	AAL
6	Cadmium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
7	Chromium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
11	Mercury	**ND**	mg/L	0.01			EPA 245.7	03/14/14	AAL
12	Selenium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
110	Beryllium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
111	Nickel	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
112	Antimony	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
113	Thallium	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
13	Silver	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
24	Zinc	**0.00143**	mg/L	0.001			EPA 200.8	03/12/14	AAL
9	Lead	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL
23	Copper	**ND**	mg/L	0.001			EPA 200.8	03/12/14	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

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30405-ppmetals

FIGURE 1

SUNFAIR CHEVROLET
SAMPLING PLAN
YAKIMA, WASHINGTON
— PREPARED FOR —
BOB HALL
1117 NORTH 27TH AVENUE YAKIMA, WASHINGTON 575-5507

JOB NO: 13109
SCALE: 1"=10'
SHEET: 1 OF 1

LEGEND

⊗ PROPOSED MONITORING WELL

PLSA
ENGINEERING-SURVEYING-PLANNING
1120 WEST LINCOLN YAKIMA, WASHINGTON (509) 575-6990