#### **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

9569148

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  $\mu$ g/l methylene chloride, which exceeds the 500  $\mu$ g/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

1

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

1031.25

		Table 1	
		11/5/13	
	NAVD88		
Well No.	TOC Elev.	Groundwater Depth	Static Water Level
2	1031.25	-7.78	1023.47
3	1032.53	-9.06	1023.47

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.

1023.80

-8.35

		<b>Table 2</b> 3/4/14	
	NAVD88		
Well No.	TOC Elev.	Groundwater Dept	h Static Water Level
2	1031.25	-8.75	022.50
3	1032.53	-9.94	022.59
1	1031.25	-8.95	022.30

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	
	NAVD88		
Well No.	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 <u>Guidance for Petroleum Contaminated</u> 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 <u>Guidance for Petroleum Contaminated Sites</u>. 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.

#### **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

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Washington State Certified Lab #153 - DOE Accredited Lab C345
IOC PP Metals

T .	No.	Dalaur	Data	Collected:	11/01/13				
La	ıb/Sample No:	Delow	Date	Conected:	11/01/13				
Т	Date Received:	11/04/13	Date	Reported:	11/20/13		Supervisor:	вко	
	Tate Received.	11104113	Date	ecporteu.	11/20/10		oup		
		Beer Address (1985)	Sai	mnled By:	Brad Card	ı			
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PLSA Engineering				Pjt# 1310					
Attn: Scott Garland				1					
1120 West Lincoln Av	enne								
Yakima, WA 98902	CRUC								
IOC PP Metals	- wlo Numbani	1530326	1533527	1533528	15303529				(7.35 i)
	nple Number: e ID/Location:	SF1A	SF1B	SF3A	SF3B				
Sample	E ID/Liocation.	SFIA	SIID	SIJA	0,00		The state of the s	Date	Company of the control of
Analyte	Units	Results	Results	Results	Results	MRL	Method	Analyzed	Analys
Arsenic	mg/Kg	79.5	63.2	71.3	17.7	10.0	SM 3113B	11/01/13	ВКО
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		
Nickel	mg/Kg	37.8	39.6	62.8	66.8	10.0	SM 3113B	11/19/13	
Antimony	mg/Kg	34.1	25.8	31.2	13.7	10.0	SM 3113B	11/06/13	
Thallium	mg/Kg	ND	ND	14.2	17.8	10.0	SM 3113B	11/11/13	
Silver	mg/Kg	23.0	12.0	11.0	13.0	10.0	SM 3113B	11/12/13	
Zinc	mg/Kg	262.0	305.0	328.0	161.0	100	SM 3111B	11/07/13	
Lead	mg/Kg	107.8	937.0	130.4	11.0	10.0	SM 3113B	11/13/13	
Copper	mg/Kg	35.4	30.8	33.2	ND	10.0	SM 3111B	11/06/13	BKO
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Trigger: DOH Drinking Water re MCL (maximum contaminant le		commended by	the federal or	wernment for r	uhlic water syst	ems.			
MCL (maximum contaminant le ND (Not Detected): Indicates this									
ND (Not Detected): Indicates this	s compound was analy	ZCU ARD FIDE OC	licacu at a icv	er greater man	or education rich		,		
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# Washington State Certified Lab #153 - DOE Accredited Lab C345 NWTPH-HCID

			74.44	LI AR ARC					
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		110.1112	D. t. I		11/25/13		Supervisor:	вко	
	e Received:		Date I	Reported:	11/45/15		Sapervisor		
					7 16				
*				npled By:	Brad Card	<u> </u>	Invoice#:	26190	
Sample	Location:	See Below	/			·	Matrix:		
end Report To:				Sample II		n	Matrix:	3011	
LSA Engineering				Pjt# 1310	9				
Attn: Scott Garland									
120 West Lincoln Aver	nue								
akima, WA 98902									
					- Control of the Cont				
WTPH-HCID	1. Number	15303526	15303527	15303528	15303529				
		SF1A	SF1B	SF3A	SF3B		1996		
Sample	D/Location:	SFIA	SFIB	313.1	i			Date	
	Units	Results	Results	Results	Results	MRL	Method	Analyzed	Analys
Analyte	Chies	None	None	None	None		NWTPH-HCID	11/07/13	
Hydrocarbon ID	+-%	101.1	86.1	86.8	76.4		(50 - 150)	11/07/13	JAH
% Surrogate Recovery		ND	ND	ND	ND	50	NWTPH-Dx	11/07/13	JAH
Diesel	mg/kg	ND	ND	ND	ND	20	NWTPH- Gx	11/07/13	JAH
Gas	mg/kg		ND	ND	ND	50	GC/FID	11/12/13	
Ethanol	mg/kg	ND	ND	ND	ND	50	GC/FID	11/12/13	AAL
Methanol	mg/kg	ND	+ - ND -	NO	110				
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MRL (Method Reporting Level):	Indicates the min	imum reportin	g level require	d and obtained	by the laborato	ry (always > N	ADL).		
Trigger: DOH Drinking Water res	sponse level.								
MCI, (maximum contaminant lev	el): Highest level	recommended	by the federal	government for	public water s	ystems.			
ND (Not Detected): Indicates this	compound was an	alyzed and not	detected at a le	evel greater than	n or equal to the	e MRL.			
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Washington State Certified Lab #153 - DOE Accredited Lab C345

Washington				CB's (Soi	1)				
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	OAL TOMORY								
				npled By:	Brad Card	<u> </u>	Invoice#:	26190	
	le Location:	See Belov	V	Carrala I	formatio	m	Matrix:		
Send Report To:				Sample II			Matrix	5011	
PLSA Engineering				Pjt# 1310	19				10
Attn: Scott Garland									
1120 West Lincoln Ave	enue								
Yakima, WA 98902								1	
PCB's (Soil)								secent in a	30204
	ple Number:			15303528	15303529			100	
Sample	ID/Location:	SF1A	SF1B	SF3A	SF3B		AND THE RESERVE OF	Date	Profesion is
	Units	Results	Results	Results	Results	MRL	Method	Analyzed	Analys
Analyte	mg/kg	ND	ND	ND	ND	0.10	EPA 8082	11/15/13	AAL
PCB's	Highe	(ND	I TID						
Surrogate Standard	i			i		Control Limits			
DCB	%	111	90.8	80	93.2	30 -130	EPA 8082	11/15/13	AAL
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MRL (Method Reporting Level)	: Indicates the mini	mum reporting	level required	and obtained	by the laborator	y (always >Ml	DL).		
Trigger: DOH Drinking Water re-			and the control of th		28				
MCL (maximum contaminant le	vel): Highest level	recommended	by the federal g	government for	public water sy	stems.			
ND (Not Detected): Indicates this	s compound was ana	lyzed and not	detected at a le	vel greater than	or equal to the	MRL			
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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 l	Reported:	11/25/13	Supervisor: BKO
	Sar	npled By:	<b>Brad</b> Care	i
Sample Location: See Below				Invoice#: 26190
Send Report To:		Sample I	nformatio	n Matrix: Soil
PLSA Engineering		Pjt# 1310	9	
Attn: Scott Garland				
1120 West Lincoln Avenue				
Yakima, WA 98902		L		
Polynuclear Aromatic Hydrocarbons				

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_	le Number: D/Location:	15303526 SF1A	SF1B	SF3A	SF3B				Ayes
Olimpio 2			i					Date	
Analyte	Units	Results	Results	Results	Results	MRL	Method	Analyzed	Name and Address of the Owner, where the Owner, which is
Acenaphthene	mg/kg	ND	ND	ND	ND	0.01	EPA 8270D		
Acenaphthylene	mg/kg	0.0111	ND	ND	ND	0.01	EPA 8270D		
Anthracene	mg/kg	ND	ND	ND	ND	0.01	EPA 8270D		
Benzo(a)anthracene	mg/kg	ND	0.0256	0.0377	ND	0.01	EPA 8270D	L	
Benzo(a)pyrene	mg/kg	0.0174	0.0152	0.0210	ND	0.01	EPA 8270D		
Benzo(b)fluoranthene	mg/kg	0.0182	0.2650	0.0403	ND	0.01	EPA 8270D		
Benzo(ghi)perylene	mg/kg	0.0254	0.0232	0.0572	ND	0.01	EPA 8270D		
Benzo(k)fluoranthene	mg/kg	ND	ND	0.0224	ND	0.01	EPA 8270D		
Chrysene	mg/kg	ND	0.0108	0.0342	ND	0.01	EPA 8270D		
Dibenzo(ah)anthracene	mg/kg	ND	ND	ND	ND	0.01	EPA 8270D	+	
Fluoranthene	mg/kg	0.0201	0.0198	0.0442	0.0105	0.01	EPA 8270D		
Fluorene	mg/kg	ND	ND	ND	ND	0.01	EPA 8270D		,
Indeno(1,2,3-cd)pyrene	mg/kg	0.0209	0.0257	0.0395	ND	0.01	EPA 8270E		
Naphthalene	mg/kg	0.0188	0.0121	0.0344	0.0102	0.01	EPA 8270L		
Phenanthrene	mg/kg	0.0248	0.0199	0.0482	0.0149	0.01	EPA 8270E		
Pyrene	mg/kg	0.2790	0.0235	0.0483	0.0116	0.01	EPA 8270D		
2-MethylNapthalene	mg/kg	0.0165	0.0124	0.0378	0.0116	0.01	EPA 8270D	11/19/13	AAL
	!					1			

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

93.3

91.9

0/0

Trigger: DOH Drinking Water response level.

Surrogate Standard

Terphenyl-d14

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:

83.1

91.0

EPA 8270D | 11/19/13 | AAL

201 East D St.

Yakima, WA 98901

Washington State DOE Accredited Lab #C. Sampled At: See Below	345	Da Tin	te Reported: 1 te Collected: 1 ne Collected: 1 Sampled By: E	1/01/13 1:00 AM	
PLSA Engineering		Pjt# 13109			
Attn: Scott Garland		3			
120 West Lincoln Avenue					
Yakima, WA 98902					
Volatile Organic Chemicals	<del></del>	Method: E	PA 8260B	Matrix: S	oil
VEL Sample #	3526	3527	3528	3529	
Sample ID	SF1A	SF1B	SF3A	SF3B	
Units	mg/kg	mg/kg	mg/kg	mg/kg	Limits
	ing/ag	mg/ kg	66		
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	İ
Analyst:	AAL	AAL	AAL	AAL	
ND = None Detected		Page 1 of 3	4		

#### VALLEY Environmental Laboratory 201 East D St.

Yakima, WA 98901 (500) 575 - 3999 Fax: (509) 575 - 3068

Volatile Organic Compounds (Continued)									
VEL Sample #	3526	3527	3528	3529					
Sample ID	SFIA	SF1B	SF3A	SF3B					
Units	mg/kg	mg/kg	mg/kg	mg/kg	Limits				
,2-Dichloropropane	ND	ND	ND	ND	0.005				
Dibromomethane	ND	ND	ND	ND	0.005				
Bromodichloromethane	ND 1	ND	ND	ND	0.005				
is-1,3-Dichloropropene	ND !	ND	ND	ND	0.005				
foluene	0.007	0.0058	ND	ND	0.005				
	ND	ND	ND	ND	0.005				
rans-1,3-Dichloropropene	ND	ND	ND	ND	0.005				
,1,2-Trichloroethane	ND	ND	ND	ND İ	0.005				
,3-Dichloropropane	ND	ND	ND	ND	0.005				
Dibromochloromethane	ND	ND i	0.0170	ND	0.005				
Tetrachloroethylene	ND	ND	ND	ND	0.005				
,2-Dibromoethane	ND ND	ND	ND	ND	0.005				
Chlorobenzene	ND	ND	ND	ND	0.005				
,1,1,2-Tetrachloroethane	ND	ND	ND	ND	0.005				
Ethylbenzene	0.0095	0.0102	0.0062	ND	0.005				
n,p-Xylene	ND	ND ;	ND	ND	0.005				
Styrene	0.0056	ND	ND	ND	0.005				
o-Xylene Bromoform	ND	ND	ND	ND	0.005				
1,1,2,2-Tetrachloroethane	ND I	ND	ND	ND	0.005				
	ND	ND	ND	ND	0.005				
1,2,3-Trichloropropane Bromobenzene	ND	ND	ND	ND	0.005				
	ND	ND	ND	ND	0.005				
n-Propylbenzene 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	0.00				
1,2-Dichlorobenzene	ND	ND	ND	ND	0.005				
n-Butylbenzene	ND	ND	ND	ND	0.003				
1.2-Dibromo-3-chloropropane	ND	ND	ND	ND	0.003				
1.2.4-Trichlorobenzene	ND	ND	ND	ND	0.003				
Naphthalene	0.013	ND	ND	0.0110	0.00				
Naphthalene AAL	11/13/2013	11/13/2013	11/13/2013	11/13/2013					
Analyst:	AAL	AAL	AAL	AAL					
				d					
			Page 2 of 3	T					

# VALLEY Environmental Laboratory 201 East D St.

Yakima, WA 98901

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-Trichloroethane	ND	ND	ND	ND	0.005					
,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.005					
.1-Dichloroethene	ND	ND	ND	ND	0.005					
,2,3-Trichlorobenzene	ND	ND	ND	ND	0.005					
,2-Dichloroethane	ND	ND	ND ;	ND	0.005					
	ND	ND	ND	ND	0.005					
-hexanone	ND	ND	ND	ND	0.005					
Bromoform Carbon disulfide	ND	ND	ND	ND	0.005					
	ND	ND	ND	ND	0.005					
Chlorobenzene	ND	ND	ND	ND	0.005					
cis-1,2-dichloroethene	ND i	ND	ND	ND	0.005					
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.005					
Hexachlorobutadiene	ND	ND	ND	ND	0.005					
sopropylbenzene	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 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: Analyst:	I .	11/13/2013 AAL	11/13/2013 AAL	11/13/2013 AAL						
		P	age 3 of 3	A						

201 East D Street Yakima, WA 98901 (509) 575 – 3999 Fax: (509) 575 - 3068	O'PERFORM  OBSERVATIONS  OPERIORIONS  OPERIORIONS			maining. Please contact the laboratory for further information. ROUND IS (DIRECTOR)	Sta   Sta   3-	1 week Rush – 50%
STODY RECORD #	SALESTON DE LOS DOMINAS DE LOS DOMIN			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 hunter information.  ADDRESS  ADDRE	SUBJECT TO PRIOR LABORATORY APPROVAL REGIEVED BY (SIGN/ANDERNA)	Jakken Jah
PLSA Engineering + Surveying 1120 W. Lincoln Avo.  Yakima, Wil 98902.	W. 575 6993 OW STANDER WATER	Statement of the statem		thervise marked, B.	FOREACH SAMPLE  REUNPOUSHED BY (SIGN AND PRINT)  (1/5/13	Financia chainne anctor committon leve, more tha Antiques to desire

# VALLEY Environmental Laboratory 201 East D St.

Yakima, WA 98901

Washington State DOE Accredited Lab #C Sampled At: See Below	345	Da	ate Reported: 1 ate Collected: 1 me Collected: 8 Sampled By: 1	11/05/13 3:00 AM
PLSA Engineering		13109		
Attn: Scott Garland	ĺ			
1120 West Lincoln Avenue	1			
	1			
Yakima, WA 98902		Method: l	EPA 8260B	Matrix: Water
Volatile Organic Chemicals  VEL Sample #	03604	3605	3606	
Sample ID	SF1	SF2	SF3	
			ug/L	Limits
Units	ug/L	ug/L	ug/L	Linuits
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
Dichlorodiffuoromethane Chloromethane	ND	ND	ND	0.50
	ND	ND	ND :	0.50
Vinyl chloride Bromomethane	ND	ND	ND	0.50
	ND	ND	ND	0.50
Chloroethane	ND	ND	ND	5.00
Acetone	ND	ND	ND	0.50
Acrolein	ND	ND	ND	0.50
1,1-Dichloroethylene	ND	ND	ND	5.00
Methylene chloride	ND	ND	ND	0.50
Acrylonitrile trans-1,2-Dichloroethylene	ND	ND	ND	0.50
	ND	ND	ND	0.50
],1-Dichloroethane	ND	ND	ND	5.00
Methyl ethyl ketone (MEK) cis-1,2-Dichloroethylene	ND	ND	ND	0.50
	ND	ND	ND	0.50
2,2-Dichloropropane 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
	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 Date Analyzed:	11/13/2013	11/13/2013	11/13/2013	
Date Analyzen: Analyst:	AAL	AAL	AAL	
ND = None Detected	TH LU	Page 1 of 3	(1)	

201 East D St.

Yakima, WA 98901

	Volatile Org	anic Compo	ounds (Cont	inued)
VEL Sample #	03604	3605	3606	
Sample ID	SF1	SF2	SF3	
Units	ug/L	ug/L	ug/L	Limts
,2-Dichloropropane	ND	ND	ND	0.50
Dibromomethane	ND	ND	ND	0.50
Bromodichloromethane	ND	ND	ND	0.50
sis-1,3-Dichloropropene	ND	ND	ND	0.50
Toluene	ND	ND	ND	0.50
rans-1,3-Dichloropropene	ND	ND	ND	0.50
1,1,2-Trichloroethane	ND	ND	ND	0.50
,3-Dichloropropane	ND	ND	ND	0.50
Dibromochloromethane	ND	ND I	ND	0.50
Tetrachloroethylene	ND	ND	ND	0.50
,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
n.p-Xvlene	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	
			300	3
			Page 2 of 3	

201 East D St.

Yakima, WA 98901

	Volatile Org	ganic Comp	ounds (Conti	inued)
VEL Sample #	03604	3605	3606	
Sample ID	SF1	SF2	SF3	
Units	ug/L	ug/L	ug/L	Limts
,1,1-Trichloroethane	ND	ND	ND	0.50
,1,2,2-Tetrachloroethane	ND	ND	ND	0.50
,1-Dichloroethene	ND	ND	ND	0.50
,2,3-Trichlorobenzene	ND	ND	ND	0.50
,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
eis-1,3-Dichloropropene	ND	ND	ND	0.50
Hexachlorobutadiene	ND	ND	ND	0.50
Isopropylbenzene	ND I	ND	ND	0.50
Methyl Isobutyl ketone (MIBK)	ND	ND	ND	0.50
	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
rans-1,2-Dichloroethene Trichlorofluoromethane	ND	ND	ND	0.50
	(20/2012	11/10/2012	11/13/2013	
Date Analyzed:	11/13/2013	11/13/2013	AAL	
Analyst:	AAL	AAL	Page 3 of 3	d

# Washington State Certified Lab #153 - DOE Accredited Lab C345

Sample No:	Below	Date (	Collected:	11/05/13			
D 1 1	11/05/12	Data	Papartad:	11/05/13	Supervisor	: BKO	
e Received:	11/05/13	Date	keporteu.	11/23/13	Supervicos		
	4121	Sar	unled By:	Brod Card	l		
Location	See Below	40-7	npied by.	Diau Caru		: 26197	
Location.	occ Deloi		Sample Ir	formation	n Matrix	: Water	
			10107				
2216							
iuc							
		15000 (05	1 = = = = = = = = = = = = = = = = = = =		100000		
						100	<b>5</b> 0.5 ×
D/Location:	SFI	SF2	Sro		0,224,234,234	Date	W.C. 196 P. 196
Tinits	Results	Results	Results	MRL	Method	Analyzed	Analyst
Ontes			-		NWTPH-HCII		
j %			74				
			ND	50	NWTPH-D	x 11/07/13	JAH
		ND	ND	20	NWTPH- C		
		ND	ND	10	GC/FID		
	ND	ND	ND	10	GC/FID	11/12/13	AAL
			<u></u>				
		1					<u> </u>
						!	1
		1					
Indicates the min	imum reporting	g level require	d and obtained t	by the laborator	y (always >MDL).		
ponse level.							
el): Highest level	recommended	by the federal	government for	public water sy	ystems.		
compound was an	alyzed and not	detected at a l	evel greater than	or equal to the	: MRL.		
	Location:  Location:  Units    %     mg/L     mg/L     mg/L     mg/L     mg/L     indicates the min ponse level. et): Highest level	ole Number: 15303604 D/Location: SF1  Units Results None 96 79.6 mg/L ND mg/L ND mg/L ND mg/L ND mg/L ND  Indicates the minimum reporting ponse level. et): Highest level recommended	Received: 11/05/13 Date I  Same Location: See Below  Dele Number: 15303604 15303605 D/Location: SF1 SF2  Units Results Results  None None  96 79.6 98  mg/L ND ND	Received: 11/05/13  Bampled By: Location: See Below  Sample II  13109  Dele Number: 15303604 15303605 15303606 Dele Number: SF1 SF2 SF3  Units Results Results Results  None None None None  46 79.6 98 74  mg/L ND ND ND ND  mg/L ND ND ND ND  mg/L ND ND ND ND  mg/L ND ND ND ND  mg/L ND ND ND ND  mg/L ND ND ND ND ND  mg/L N	Sampled By: Brad Card  Location: See Below  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Sample Informatio 13109  Indicates the minimum reporting level required and obtained by the laborator pense level.  Indicates the minimum reporting level required and obtained by the laborator pense level.  Ithicities level recommended by the federal government for public water sycompound was analyzed and not detected at a level greater than or equal to the	Sampled By: Brad Card	Sampled By: Brad Card

Washington State Certified Lab #153 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons Date Collected: 11/05/13 Lab/Sample No: Below BKO Date Reported: 11/25/13 Supervisor: Date Received: 11/05/13 contract to entract the contract of Sampled By: Brad Card Invoice#: 26197 Sample Location: See Below Matrix: Water Sample Information Send Report To: 13109 PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902 Polynuclear Aromatic Hydrocarbons VEL Sample Number: 15303606 15303604 15303605 SF3 Sample ID/Location: SF1 SF2 Date **Analyzed Analyst** Method Results MRL: Results Units Results Analyte EPA 8270D 11/19/13 AAL ND ND ND 0.03Acenaphthene ug/L EPA 8270D 11/19/13 AAL ND 0.03 ug/L ND ND Acenaphthylene EPA 8270D 11/19/13 AAL 0.03 ND ND ND ug/L Anthracene EPA 8270D 11/19/13 AAL ND 0.03 ND Benzo(a)anthracene ND ug/L EPA 8270D 11/19/13 AAL 0.03 ND ND ND Benzo(a)pyrene ug/L EPA 8270D 11/19/13 AAL ND ND ND 0.03 Benzo(b)fluoranthene ug/L EPA 8270D 11/19/13 AAL 0.03 ND ug/L ND ND Benzo(ghi)perylene EPA 8270D 11/19/13 AAL 0.03 ND ND ND Benzo(k)fluoranthene ug/L EPA 8270D 11/19/13 AAL 0.03 ND ND ND ug/L Chrysene EPA 8270D 11/19/13 AAL 0.03 ND ND ND Dibenzo(ah)anthracene ug/L EPA 8270D 11/19/13 AAL 0.03 ND ND ND Fluoranthene ug/L EPA 8270D 11/19/13 AAL ND ND 0.03 ND ug/L Fluorene EPA 8270D | 11/19/13 | AAL 0.03 ND ND Indeno(1,2,3-cd)pyrene ug/L ND EPA 8270D 11/19/13 AAL 0.03 ND ND ug/L ND Naphthalene EPA 8270D 11/19/13 |AAL 0.03 ND ND ND ug/L Phenanthrene EPA 8270D | 11/19/13 | AAL 0.03 ND ND ND ug/L Pyrene EPA 8270D 11/19/13 AAL 0.03 ND ND ND ug/L 1-MethylNapthalene EPA 8270D 11/19/13 |AAL ND ND 0.03 ND ug/L 2-MethylNapthalene Control Limits Surrogate Standard: EPA 8270D | 11/19/13 | AAL 91.70 95.90 (10 - 125)79.40 % Terphenyl-d14 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:

Washington State Certified Lab #153 - DOE Accredited Lab C345

PCB's (Soil) Date Collected: 11/05/13 Lab/Sample No: Below **BKO** Supervisor: Date Received: 11/05/13 Date Reported: 11/25/13 Sampled By: Brad Card Invoice#: 26197 Sample Location: See Below Matrix: Water Sample Information Send Report To: 13109 PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902 PCB's (Soil) **VEL Sample Number:** 15303604 15303605 15303606 SF3 Sample ID/Location: SF1 SF2 Date Method Analyzed Analys MRL Units Results Analyte Results Results 11/14/13 AAL EPA 8082 ug/L ND ND ND 0.20 PCB's Control Limit Surrogate Standard 11/14/13 AAL EPA 8082 (30 - 130)102.80 105.60 94.60 DCB 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:

# 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** 13109 Attn: Scott Garland 1120 West Lincoln Avenue

#### **IOC PP Metals**

Yakima, WA 98902

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

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:

# APPENDIX II MARCH 2014 ANALYTICAL RESULTS

THIS INFORM	THIS INFORMATION WILL BE FOR REPORTING BILLING (SEE BELOW)	Selluing: (See	- 9v.⊙⊺⊑		IN OF	CUST	CHAIN OF CUSTODY RECORD	RECOR	۵						20	1 East	201 East D Street	+	
CLIENT: 12 4	SA Englineering	s t Surveyin	63												Ya	ıkima,	Yakima, WA 98901	901	
ADDRESS	1120 W. Lin	1 1 2 60 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	MODE	‡ CI 01100 X	‡ <u>C</u>									(5)	39) 575 x- (500	(509) 575 – 3999 Fax: (500) 575 – 3060	3060	
	X 2 6 1017 2 1 150 14	1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				‡ 2		100/							ਹ -	٧٠ (٢٥٠)	- 010 (	2000	
ATTENTION:	13 22 A C 12 2	A Contraction		PAGE		OF							TESTST	TESTS TO PERFOR	E.				
PROJECT NAME:	(3109					131													
PROJECT CONTACT:		Carac			229	SAS	S.					<							
TELEPHONE:	50257265	FAX:572- 68			Nos	MINING	<b>沙</b> 、					1	\						
Sampled By:	Broadow	CA		W. A	PO SO ON	020 OV	1	A STATE OF THE STA											
LAB SA#	SAMPLE ID / LOCATION	DATE	TIME	INTON		A		157									1000 V	SERVATIONS, MENTS, SPECI	AC
	SF 21			×	3	Consult.	1 3	-	-	+	-		1	+	1	+			
									ļ	-				-					
	S. Jan D. J. C.			M	S. Charles	The state of the s	i neces				-		-						
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	5/2	8		2.	40	N <sub>1</sub>	1,110			-				-	-	-			
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				-				-		94		5		-					-
				-															T
				27.74											-			-	
								-											T
																			T
								-						-					
A. A standard turna	A. A standard turnaround time is assumed unless otherwise marked, B.	d. B.	oratory may	not be res	ponsible fo	or missed	tolding tim	e for samp	es received	with less	han 50% (	of the anal	ytical hold	lime rema	ning. Pleas	se contact th	e laboratory f	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.	lion.
1. USE ONE LIN	IE PER SAMPLE.			OE VISS	New York	ADDRESS		FENERA	PANANARON, Lift of Landard Manaharan Pangovier Address			, RL	SHTU	RNARC	RUSH TURNAROUND IS	(0)	TOTAL NO	TOTAL NO. OF CONTAINERS	Ų,
3. CHECK OFF 1 FOR EACH S	2. DE STEUTION 1551 KEUDES 15. 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE	ATTN:	The state of the s	Char	W.5.	CITY STATE ZIP	EZIP	STATE OF THE PERSON AND THE PERSON A				S	UBJEC	SUBJECT TO PRIOR BORATORY APPROV	SUBJECT TO PRIOR LABORATORY APPROVAL		td. 10-14 B	Std. 10-14 Business Days	
	RELINQUISTED BY (SIGN AND PRINT)	AND FRIGT)		A.C.			C	DEC	TANER GIVEN AND REINE	36.53	NEE O				TING		4-48 Hrs.	24-48 Hrs. 100% Rush	
77	San Car				30	1	D								27	1/4	3-Day Rush – 80%	.h - 80%	
	7		The second secon				7		>						2	- - 	week Ru	1 week Rush – 50%	
THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER OF THE OWNER OWNER, THE OWNER OWNER, THE OWNER OWNER, THE OWNER OWNER, THE	Married State of Stat													-		-			_

# Washington State Certified Lab #153 - DOE Accredited Lab C345

Date Collec	eted: 03/04/14		1					
	No: 153-30403			(	County	: YAKIMA		
Sample Locat	non: SF21		-	D / D		00/01/11		
			-			: 03/04/14		
			Carre			: 03/13/14		
end Report To:				LE COMM		: Brad Card	***	
PLSA Engineering Attn: Brad Card 1120 West Lincoln Ave Yakima, WA 98902	enue			t 13109	IEN 15	Matrix	: Water	
NWTPH-HCID								
OH# Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analy
Hydrocarbon ID	None					NWTPH-HCID	03/06/14	THE RESERVE OF THE PARTY.
% 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): In Trigger: DOH Drinking Water respon MCL (maximum contaminant level): ND (Not Detected): Indicates this con	nse level. Public System Highest level recomme	s in excess of t	his level mus deral governn	t take additiona	l samples. water syst	Recommended range ems.	on packages.	

Washington State Certified Lab #153 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collec	ted: 03/04/14			A 0200D			AFERSON (WILLIAM SAS CONTINUES	
Lab/Sample Sample Locat	No: 153-30403			(	County	: YAKIMA		
Send Report To:	10tt. 9F21		THE RESERVE AND PERSONS ASSESSMENT	Date Rep	ported ted By	: 03/04/14 : 03/20/14 : Brad Card	x: Water	
PLSA Engineering Attn: Brad Card 1120 West Lincoln Ave Yakima, WA 98902	nue		_	t 13109	IEN15	Matri	x: Water	
BTEX by EPA 8260B		TT	MDI	m .	N. COX			
DOH# Analytes	Results	Units	MRL	Trigger	MCL		Analyzed	THE RESERVE OF THE PERSON NAMED IN
Benzene Toluene Ethylbenzene	ND ND ND	ug/L ug/L ug/L	0.5 0.5 0.5			EPA 8260B EPA 8260B	03/12/14	AAL
Xylenes	ND	ug/L	0.5			EPA 8260B EPA 8260B	03/12/14	
MRL (Method Reporting Level): In Trigger: DOH Drinking Water respon MCL (maximum contaminant level): ND (Not Detected): Indicates this com	se level. Public System Highest level recomme	is in excess of tended by the fe	this level mus deral governm at a level grea	t take additiona	al samples. water syst	Recommended range	e on packages.	

30403-btex

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	Project 13109
Attn: Brad Card	
1120 West Lincoln Avenue	
Yakima, WA 98902	
IOC PP Metals	-

MCL Method Analyzed	d Analy
EPA 200.8 03/12/14	AAL
EPA 200.8 03/12/14	AAL
EPA 200.8 03/12/14	AAL
EPA 200.8 03/12/14	AAL
EPA 245.7 03/14/14	AAL
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:

30403-ppmetals

# Washington State Certified Lab #153 - DOE Accredited Lab C345

NWTPH-HCID

	Date Collect	red: 03/04/14							
	Lab/Sample N	No: 153-30404			(	County	: YAKIMA		
Send	Report To:			The second second	Date Rep	ported ted By	: 03/04/14 : 03/17/14 : Brad Card	x: Water	
	PLSA Engineering Attn: Brad Card 1120 West Lincoln Aven Yakima, WA 98902 NWTPH-HCID	nue			t 13109	IENTS	watri	c: water	
	Analytes	Results	Units	MRL	Tuiggou	MCL	Modhad	TA 1 1	
A CONTRACTOR OF THE PARTY OF TH	Hydrocarbon ID	None	Units	IVIKL	Trigger	MCL	Method NWTPH-HCID	<b>Analyzed</b> 03/06/14	JAH
	% Surrogate Recovery	93.6	%				(50 - 150)	03/06/14	-
	Diesel	ND	ppm	0.005			NWTPH-Dx	03/06/14	
	Gas	ND	ppm	0.005			NWTPH-Gx	03/06/14	
(	Oil	ND	ppm	0.005			NWTPH-Dx		JAH
Tı M	RL (Method Reporting Level): Ind rigger: DOH Drinking Water response CL (maximum contaminant level): D (Not Detected): Indicates this comp	e level. Public System Highest level recomme	s in excess of t	his level mus deral governn at a level grea	t take additiona nent for public	ıl samples water syst	. Recommended range ems.	on packages.	

30404-hcid

Washington State Certified Lab #153 - DOE Accredited Lab C345

Date Collected: 03/04/									
	14								
T 1/6 1 N 170 20	10.1								
Lab/Sample No: 153-30	County: YAKIMA								
Sample Location: SF22		D . D		00/01/11					
					: 03/04/14				
	C			: 03/20/14					
end Report To:		THE RESERVE OF THE PARTY OF THE	LE COMM	NAME OF TAXABLE PARTY.	Brad Card	XXI			
PLSA Engineering				IEN15	Matri	x: Water			
Attn: Scott Garland		Frojec	t 13109						
1120 West Lincoln Avenue									
Yakima, WA 98902									
BTEX by EPA 8260B									
OH# Analytes Resul	to IIIiita	MDI	Tulana	MCI	Mal	<del></del>			
Benzene ND		MRL 0.5	Trigger	MCL	Maria Cara Cara Cara Cara Cara Cara Cara	Analyzed			
Toluene ND	ug/L ug/L	0.5			EPA 8260B EPA 8260B	03/12/14	-		
Ethylbenzene ND	ug/L	0.5		-	EPA 8260B	03/12/14			
Xylenes ND	ug/L	0.5			EPA 8260B	03/12/14			

30404-btex

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	Project 13109
Attn: Scott Garland	
1120 West Lincoln Avenue	
Yakima, WA 98902	
IOC PP Metals	

DOH	# Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analys
4	Arsenic	ND	mg/L	0.001	- 00		EPA 200.8	03/12/14	COMPANIES OF THE PARTY OF THE P
5	Barium	0.0104	mg/L	0.001			EPA 200.8	03/12/14	
6	Cadmium	ND	mg/L	0.001			EPA 200.8		AAL
7	Chromium	ND	mg/L	0.001			EPA 200.8	03/12/14	
11	Mercury	ND	mg/L	0.01			EPA 245.7	03/14/14	
12	Selenium	ND	mg/L	0.001			EPA 200.8	03/12/14	
110	Beryllium	ND	mg/L	0.001			EPA 200.8	03/12/14	
111	Nickel	0.0011	mg/L	0.001			EPA 200.8	03/12/14	
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.

Approved By:

# Washington State Certified Lab #153 - DOE Accredited Lab C345 NWTPH-HCID

Date Collect	ted: 03/04/14	111	TPH-I	ICID							
Lab/Sample No: 153-30405 Sample Location: SF23				County: YAKIMA							
				D . D		0.010.111.1					
						: 03/04/14					
			Come			: 03/17/14					
Send Report To:			THE RESERVE TO BE ADDRESS OF THE PARTY OF TH	LE COMM	EAST SERVICE AND INCOME.	: Brad Card	XX - 4				
PLSA Engineering				t 13109	IENIS	Matrix	: Water				
Attn: Brad Card			Trojec	13109							
1120 West Lincoln Aver	7110										
Yakima, WA 98902	iluc										
NWTPH-HCID											
OH# Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analys			
Hydrocarbon ID	None			- 88		NWTPH-HCID	03/06/14				
% Surrogate Recovery	95.4	%				(50 - 150)	03/06/14				
Diesel	ND	ppm	0.005			NWTPH-Dx	03/06/14				
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): Ind Trigger: DOH Drinking Water respons MCL (maximum contaminant level): ND (Not Detected): Indicates this com	e level. Public System Highest level recomme	s in excess of tended by the fe	his level mus deral governn	t take additiona nent for public	al samples. watensyste	Recommended range ems.	on packages.				

30405-hcid

Washington State Certified Lab #153 - DOE Accredited Lab C345

	TARREST AND THE STATE OF THE ST		BTEX	by EP.	A 8260B						
	Date Coll	ected: 03/04/14									
	<b>Lab/Sample No: 153-30405</b>					County	: YAKIMA				
tional retra	Sample Loc	ation: SF23									
							: 03/04/14				
							: 03/20/14				
Cand	Domant Tax			Sample Collected By: Brad Card SAMPLE COMMENTS Matrix: Water							
Sena	Report To:										
	PLSA Engineering			Projec	t 13109						
	Attn: Scott Garland										
	1120 West Lincoln A	venue									
	Yakima, WA 98902										
	BTEX by EPA 8260B										
DOH#	Analytes	Results	Units	MRL	Trigger	MCL		Analyzed	the base of the same of the sa		
	Benzene	ND	ug/L	0.5			EPA 8260B	03/12/14			
	Toluene	ND	ug/L	0.5			EPA 8260B		AAL		
	Ethylbenzene Vylonos	ND ND	ug/L	0.5			EPA 8260B	03/12/14			
	Xylenes	ND	ug/L	0.5			EPA 8260B	03/12/14	AAL		
T N	IRL (Method Reporting Level): 'rigger: DOH Drinking Water resp ICL (maximum contaminant level) ID (Not Detected): Indicates this of	ponse level. Public System el): Highest level recomme	is in excess of the fe	this level must deral governi at a level gre	t take additiona	l samples. water syst	Recommended range	e on packages.			

30405-btex

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	Project 13109					
Attn: Brad Card						
1120 West Lincoln Avenue						
Yakima, WA 98902						
IOC PP Metals	1					

DOH	# Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analys
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	
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		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		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:

