



December 26th, 2017

Via Email

Mr. Christer Loftenius - Hydrogeologist
Toxics Cleanup Program
WA Department of Ecology - Eastern Regional Office-
4601 N. Monroe Street
Spokane, WA 99205-1295

Re: **2nd Semi-Annual 2017 Ground-Water Monitoring Data Transmittal**
Andeavor-Tesoro Logistics (Former Chevron) Pasco Bulk Fuel Terminal
2900 Sacajawea Park Road, Pasco, Washington 99301
Ecology Facility Site ID: 55763995; Cleanup Site ID: 4867

Dear Mr. Loftenius:

Enclosed please find monitoring data summary tables, site figures, and copies of laboratory data reports for the 2nd semi-annual 2017 ground-water monitoring event completed between October 23 and 25, 2017 at the Tesoro Logistics (Former Chevron) Pasco Bulk Fuel Terminal on Sacajawea Road in Pasco, Washington. These data are transmitted on behalf of Andeavor - Tesoro Logistics Operations LLC (Tesoro).

Please feel free to call me at (650) 827-7474 if you have any questions. I will be in touch shortly to discuss the status of this site further.

Sincerely,
CEECON Testing, Inc.

A handwritten signature in dark ink, appearing to read "Michael Hodges". The signature is fluid and cursive, with a large loop on the left and a more compact end on the right.

Michael Hodges
President

cc: Ms. Anastasia E. Duarte, RS – Andeavor Companies, Inc.
Brent Pierce, Dan Andersen, Tesoro Logistics LLC (Pasco)
Ms. Nicky Moody, Environmental Project Manager - Portland, AECOM

CEECON Testing, Inc.
434 North Canal Street, Suite Six
South San Francisco, CA 94080
CEECON@msn.com

TABLES

TABLE 1
OCTOBER 2017 GROUND-WATER MONITORING DATA - TESORO WELLS
Tesoro Logistics Pasco Terminal
Pasco, Washington

Sample Location	Date Sampled	Ground-Water Sample Analysis Results (ug/l)											Ground-Water Elevation Data (feet)				
		TPHmo (NWTPH- Rx)	TPHd (NWTPH- Dx)	TPHg (NWTPH- Gx)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Ethanol	1,2-DCA	Naphthalene	Well Screen Depth Interval	TOC Elevation	DTW	Elevation (MSL)	Change in Elevation
Tesoro Logistics (former CPL)																	
MW-1	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	73.9 - 93.9	419.40	Dry	--	--
MW-2	10/24/17	<250	580	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0 ^a	68 - 83	417.28	74.12	343.16	-1.26
MW-3	10/25/17	410	5,700	380	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0 ^a	75 - 95	423.42	80.23	343.19	-1.19
MW-4	--	--	--	--	--	--	--	--	--	--	--	--	56.75 - 76.75	412.09	--	--	--
MW-5	Well destroyed May 1987	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6		10/23/17	<250	<100	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0 ^a	8.5 - 23.5	358.61	17.01	341.60
MW-7	10/24/17	<250	<100	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0 ^a	57 - 77	411.40	68.22	343.18	-1.13
MW-8	Well destroyed May 1987	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	29 - 54	383.91	--	--	--
MW-9		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	55 - 78	407.91	--	--	--
MW-11		10/25/17	<250	360	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0 ^a	75 - 85	423.48	80.31	343.17
MW-12	10/24/17	<250	160	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0 ^a	75 - 85	423.65	80.45	343.20	-1.15
MW-13	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	18.5 - 47.5	--	--	--	--
MW-14	10/24/17	<250	<100	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0 ^a	73 - 83	421.97	78.78	343.19	-1.23
RW-1	--	Well buried - status unknown											64- 98	417.29	--	--	--
Equipment Blank:																	
CEB	10/25/17	<250	0.13	<50	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<4.0					
Trip Blank:																	
Trip Blank	5/16/17	--	--	<50	<2.0	<2.0	<3.0	<3.0	<2.0	--	<2.0	<4.0					
Ecology Criteria ⁽¹⁾		500	500	1,000	5	1,000	700	1,000	20	NE	5	160					

TABLE 1 (cont.)

Notes:

- (1) Washington Department of Ecology Method A cleanup levels as listed in Table 720-1 of the Model Toxics Control Act, revised 10/12/07
a LCS or LCSD outside acceptance limits.
Concentrations in **bold** exceed Ecology Method A cleanup levels.
Change in elevations calculated using previous data collected May 15-17, 2017.

TPHmo = Total Petroleum Hydrocarbons as Motor Oil
TPHd = Total Petroleum Hydrocarbons as Diesel
TPHg = Total Petroleum Hydrocarbons as Gasoline
TOC = Top of casing elevation in feet MSL

DTW = Depth to water
MSL = Mean sea level
NS = Not sampled
-- = Not analyzed

TABLE 2
OCTOBER 2017 WATER QUALITY AND NATURAL ATTENUATION
PARAMETER DATA - TESORO WELLS
Tesoro Logistics Pasco Terminal
Pasco, Washington

Sample ID	Date	FIELD MEASUREMENTS					ANALYTICAL PARAMETERS (Field and Lab)					
		pH	Specific Conductance	DO	Temp.	ORP	Sulfate	Nitrate	Ferrous Iron	Manganese	Methane	Alkalinity
		S.U.	mS/cm	mg/L	°C	mV	mg/L	ppm	ppm	mg/L	mg/L	mg/L
Tesoro Logistics (former CPL)												
MW-1	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/24/17	7.34	1.27	8.93	17.58	112	110	9.7	>0.01	<0.020	0.0083	350
MW-3	10/25/17	7.41	1.20	4.01	17.58	-105	--	--	--	--	--	--
MW-4	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/23/17	7.61	0.863	9.32	19.68	186	98	0.04	0.01	<0.020	<0.0050	180
MW-7	10/24/17	7.83	0.918	7.73	17.67	145	--	--	--	--	--	--
MW-8	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	10/25/17	7.37	1.04	7.49	18.57	154	--	--	--	--	--	--
MW-12	10/24/17	7.50	1.10	3.39	17.70	49	98	10.5	<0.01	0.19	0.090	270
MW-13	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	10/24/17	7.7	0.932	6.18	17.69	144	--	--	--	--	--	--
RW-1	--	Well buried - status unknown										

Notes:

--	Not analyzed or measured
S.U.	Standard Unit
mS/cm	millisiemens per centimeter
mg/L	milligrams per liter
ppm	parts per million
°C	degrees celsius
mV	millivolts
ORP	Oxidation Reduction Potential
a	Well was silted in and not sampled.

Water quality parameters collected in the field using a multiparameter Horiba U-55 meter.
Dissolved oxygen (DO) measured using portable meter with downhole probe.
Sulfate analyzed by EPA Method 300.
Nitrate and ferrous iron measured in the field using colorimeter test kits.
Manganese analyzed by EPA Method 200.7.
Methane analyzed by Method RSK 175M.
Alkalinity analyzed by SM2320B.

TABLE A-1
HISTORICAL GROUND-WATER MONITORING DATA - TESORO WELLS
Tesoro Logistics Pasco Terminal
Pasco, Washington

Sample Location	Date Sampled	Ground-Water Sample Analysis Results (ug/l)										Ground-Water Elevation Data (feet)					
		TPHmo (NWTPH-Rx)	TPHd (NWTPH-Dx)	TPHg (NWTPH-Gx)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Ethanol	1,2-DCA	Naphthalene	Well Screen Depth Interval	TOC Elevation	DTW	Elevation (MSL)	Change in Elevation
Tesoro Logistics (former CPL)																	
MW-1	8/29/16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	73.9 - 93.9	419.40	Dry	--	--
	5/17/17	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	73.9 - 93.9	419.40	Dry	--	--
MW-2	5/29/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	63.3 - 83.3	417.28	72.83	344.45	0.38
	10/29/14	<500	<250	<250	<0.50	0.68	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	63.3 - 83.3	417.28	74.03	343.25	-1.20
	6/4/15	<250	140	<250	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	63.3 - 83.3	417.28	73.31	343.97	0.72
	9/28/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	--	<0.50	<0.50	63.3 - 83.3	417.28	74.42	342.86	-1.11
	8/29/16	710	1,400	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	63.3 - 83.3	417.28	74.52	342.76	-0.10
	12/5/16	<250	410	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	63.3 - 83.3	417.28	74.02	343.26	0.50
	5/17/17	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	63.3 - 83.3	417.28	72.86	344.42	1.16
	10/24/17	<250	580	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0a	68 - 83	417.28	74.12	343.16	-1.26
MW-3	5/28/14	<500	1,100	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	74.95 - 94.95	423.42	78.85	344.57	0.53
	10/30/14	<500	18,000	620	<0.50	1.4	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	74.95 - 94.95	423.42	80.18	343.24	-1.33
	6/4/15	<250	3,300	<250	<0.50	<0.50	<0.50	<1.0	<0.50	24.8	<0.50	0.51	74.95 - 94.95	423.42	79.46	343.96	0.72
	9/29/15	<250	3,300	733	<0.50	<0.50	<0.50	<1.0	<0.50	--	<0.50	<0.50	74.95 - 94.95	423.42	80.58	342.84	-1.12
	8/30/16	1,100	11,000	1,400	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	2.50	74.95 - 94.95	423.42	80.60	342.82	-0.02
	12/6/16	290	6,600	290	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	74.95 - 94.95	423.42	80.17	343.25	0.43
	5/16/17	<250	2,600	<500	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0	74.95 - 94.95	423.42	79.04	344.38	1.13
	10/25/17	410	5,700	380	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0a	75 - 95	423.42	80.23	343.19	-1.19
MW-4	5/28/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	56.75 - 76.75	412.09	67.98	344.11	0.45
	10/28/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	56.75 - 76.75	412.09	69.17	342.92	-1.19
	6/3/15	<250	<100	<250	<0.50	0.52	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	56.75 - 76.75	412.09	68.48	343.61	0.69
	8/30/16	<250	<110	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	56.75 - 76.75	412.09	69.66	342.43	-0.14
	12/5/16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	56.75 - 76.75	412.09	--	--	--
	5/15/17	<250	<100	<500	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0	56.75 - 76.75	412.09	68.02	344.07	--
MW-5	Well destroyed May 1987																
MW-6	5/29/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	8.5 - 23.5	358.61	15.57	343.04	0.77
	10/29/14	<500	<250	<250	<0.50	4.9	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	8.5 - 23.5	358.61	16.82	341.79	-1.25
	6/3/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	8.5 - 23.5	358.61	16.18	342.43	0.64
	9/28/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	--	<0.50	<0.50	8.5 - 23.5	358.61	17.15	341.46	-0.97
	8/30/16	<250	<110	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	8.5 - 23.5	358.61	17.15	341.46	0.00
	12/5/16	<250	<110	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	8.5 - 23.5	358.61	16.91	341.70	0.24
	5/16/17	<250	<100	<500	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0	8.5 - 23.5	358.61	15.88	342.73	1.03
	10/23/17	<250	<100	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0a	8.5 - 23.5	358.61	17.01	341.60	-1.13
MW-7	5/28/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	57 - 77	411.40	67.02	344.38	0.35
	10/29/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	57 - 77	411.40	68.23	343.17	-1.21
	6/3/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	57 - 77	411.40	67.48	343.92	0.75
	9/28/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	--	<0.50	<0.50	57 - 77	411.40	68.61	342.79	-1.13
	8/30/16	<250	<110	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	57 - 77	411.40	68.74	342.66	-0.13

TABLE A-1
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Tesoro Logistics Pasco Terminal
Pasco, Washington

Sample Location	Date Sampled	Ground-Water Sample Analysis Results (ug/l)										Ground-Water Elevation Data (feet)						
		TPHmo (NWTPH-Rx)	TPHd (NWTPH-Dx)	TPHg (NWTPH-Gx)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Ethanol	1,2-DCA	Naphthalene	Well Screen Depth Interval	TOC Elevation	DTW	Elevation (MSL)	Change in Elevation	
MW-8	12/5/16	<250	<110	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	57 - 77	411.40	68.18	343.22	0.56	
	5/15/17	<250	<100	<500	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0	57 - 77	411.40	67.02	344.38	1.16	
	10/24/17	<250	<100	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0a	57 - 77		68.22		--	
	5/28/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	29 - 54	383.91	39.56	344.35	0.37	
	10/29/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	29 - 54	383.91	40.78	343.13	-1.22	
	6/3/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	29 - 54	383.91	40.04	343.87	0.74	
	9/28/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	29 - 54	383.91	41.13	342.78	-1.09	
	8/30/16	<250	<110	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	29 - 54	383.91	40.30	343.61	0.83	
	12/5/16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	29 - 54	383.91	--	--	--	
MW-9	Well destroyed May 1987		<250	<100	<500	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0	29 - 54	383.91	39.56	344.35	--
MW-10	5/28/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	55 - 78	407.91	63.46	344.45	0.38	
	10/29/14	<500	<250	<250	<0.50	1.1	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	55 - 78	407.91	64.68	343.23	-1.22	
	6/3/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	55 - 78	407.91	63.91	344.00	0.77	
	9/28/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	55 - 78	407.91	65.02	342.89	-1.11	
	8/30/16	<250	<110	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	55 - 78	407.91	65.22	342.69	-0.20	
	12/5/16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	55 - 78	407.91	--	--	--	
MW-11	5/15/17	<250	<100	<500	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0	55 - 78	407.91	63.50	344.41	--	
MW-12	5/29/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	84.5 - 74.5	423.48	79.19	344.29	0.27	
	10/30/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	84.5 - 74.5	423.48	80.31	343.17	-1.12	
	6/4/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	84.5 - 74.5	423.48	79.55	343.93	0.76	
	9/29/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	--	<0.50	<0.50	84.5 - 74.5	423.48	80.67	342.81	-1.12	
	8/29/16	<250	520	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	84.5 - 74.5	423.48	80.42	343.06	0.25	
	12/5/16	<250	360	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	84.5 - 74.5	423.48	80.29	343.19	0.13	
	5/16/17	<250	390	<500	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0	84.5 - 74.5	423.48	79.15	344.33	1.14	
	10/25/17	<250	360	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0a	75 - 85	423.48	80.31	343.17	-1.16	
MW-12	5/29/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	33 - 60;	423.65	79.26	344.39	0.36	
	Duplicate	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	75 - 85	423.65	--	--	--	
	10/30/14	<500	<250	<250	<0.50	0.66	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	33 - 60;	423.65	80.45	343.20	-1.19	
	Duplicate	<500	<250	<250	<0.50	0.67	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	75 - 85	423.65	--	--	--	
	6/4/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	33 - 60;	423.65	79.72	343.93	0.73	
	Duplicate	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	75 - 85	423.65	--	--	--	
	9/29/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	--	<0.50	<0.50	33 - 60;	423.65	80.83	342.82	-1.11	
	Duplicate	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	--	<0.50	<0.50	33 - 60;	423.65	--	--	--	
	8/29/16	270	750	58	6.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	33 - 60;	423.65	80.98	342.67	-0.15	
	Duplicate	270	730	<50	4.3	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	75 - 85	423.65	--	--	--	
	12/6/16	<250	<110	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	33 - 60;	423.65	80.48	343.17	0.50	
	Duplicate	<250	150	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	75 - 85	423.65	--	--	--	
	5/16/17	<250	<100	<500	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0	33 - 60;	423.65	79.30	344.35	1.18	

TABLE A-1
HISTORICAL GROUND-WATER MONITORING DATA - TESORO WELLS
Tesoro Logistics Pasco Terminal
Pasco, Washington

Sample Location	Date Sampled	Ground-Water Sample Analysis Results (ug/l)										Ground-Water Elevation Data (feet)					
		TPHmo (NWTPH- Rx)	TPHd (NWTPH- Dx)	TPHg (NWTPH- Gx)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Ethanol	1,2-DCA	Naphthalene	Well Screen Depth Interval	TOC Elevation	DTW	Elevation (MSL)	Change in Elevation
MW-13	Duplicate 10/24/17	<250	<100	<500	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0	75 - 85	--	--	--	--
	10/24/17	<250	160	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0a	75 - 85	423.65	80.45	343.20	-1.15
	Duplicate 5/16/17	<250	180	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0a	75 - 85	--	--	--	--
	MW-14 5/29/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	18.5 - 47.5	--	Dry	--	--
	10/29/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	27.5 - 53;	421.97	77.58	344.39	0.36
	6/4/15	<250	<100	<250	<0.50	0.72	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	27.5 - 53;	421.97	78.04	343.93	0.76
	9/28/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	--	<0.50	<0.50	72.5 - 82.5	421.97	79.18	342.79	-1.14
	8/29/16	<250	120	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	27.5 - 53;	421.97	79.32	342.65	-0.14
	12/5/16	<250	<110	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0	27.5 - 53;	421.97	78.75	343.22	0.57
	5/17/17	<250	<100	<500	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0	27.5 - 53;	421.97	77.55	344.42	1.20
RW-1	10/24/17	<250	<100	<250	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<2.0a	73 - 83	421.97	78.78	343.19	-1.23
	Well buried - status unknown												64- 98	417.29	--	--	--
Ecology Criteria ⁽¹⁾		500	500	1,000	5	1,000	700	1,000	20	N/A							

Equipment Blank:

EB-0514	5/28/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50				
EB-1014	10/29/14	<500	<250	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50				
EB-0615	6/4/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50				
EB-0915	9/28/15	<250	<100	<250	<0.50	<0.50	<0.50	<1.0	<0.50	--	<0.50	<0.50				
C-EB	8/29/16	<250	140	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0				
CEB	12/6/16	<250	<110	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0				
CEB	5/16/17	<250	<100	<50	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<4.0				
Trip Blank	8/29/16	--	--	--	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0				
Trip Blank (1)	12/5/16	<250	<110	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0				
Trip Blank (2)	12/6/16	<250	<110	<50	<2.0	<2.0	<3.0	<3.0	<1.0	<10,000	<1.0	<2.0				
Trip Blank	5/16/17	<250	<100	<50	<2.0	<2.0	<3.0	<3.0	<2.0	--	<2.0	<4.0				
EB-1017	10/25/17	<250	0.13	<50	<2.0	<2.0	<3.0	<3.0	<2.0	<10,000	<2.0	<4.0				
Trip Blank	10/25/17	--	--	<50	<2.0	<2.0	<3.0	<3.0	<2.0	--	<2.0	<4.0				

Notes:

- (1) Washington Department of Ecology Method A cleanup levels as listed in Table 720-1 of the Model Toxics Control Act, revised October 12, 2007
- Concentrations in **bold** exceed Ecology cleanup levels.
- May 2014 change in elevations calculated using previous data collected 12/2010.
- Equipment blank samples EB-0514 and EB-1014 below reporting limits for all

TPHmo = Total Petroleum Hydrocarbons as Motor Oil
TPHd = Total Petroleum Hydrocarbons as Diesel
TPHg = Total Petroleum Hydrocarbons as Gasoline
TOC = Top of casing elevation in feet MSL
N/A = Not available

DTW = Depth to water
MSL = Mean sea level
NS = Not sampled
-- = Not analyzed
ND = Non Detect
a = LCS or LCSD outside acceptance

TABLE A-1
HISTORICAL GROUND-WATER MONITORING DATA - TESORO WELLS
Tesoro Logistics Pasco Terminal
Pasco, Washington

Sample Location	Date Sampled	Ground-Water Sample Analysis Results (ug/l)										Ground-Water Elevation Data (feet)				
		TPHmo (NWTPH- Rx)	TPHd (Dx)	TPHg (NWTPH- Gx)	Benz- ene	Tol- uene	Ethyl- benzene	Total Xylenes	MTBE	Ethanol	1,2- DCA	Naph- thalene	Well Screen Depth Interval	TOC	DTW	Elev- ation (MSL)
constituents except TBA (15 and 12 ug/l, respectively)																

a = LCS or LCSD
outside acceptance
limits. LCS or LCSD

TABLE A-2
HISTORICAL WATER QUALITY AND NATURAL ATTENUATION
PARAMETER DATA - TESORO WELLS
Tesoro Logistics Pasco Terminal
Pasco, Washington

Sample ID	Date	Field Measurements					Analytical Parameters (Field and Lab)					
		pH	Specific Conductance	DO	Temp.	ORP	Sulfate	Nitrate	Ferrous Iron	Manganese	Methane	Alkalinity
		S.U.	mS/cm	mg/L	°C	mV	mg/L	ppm	ppm	mg/L	mg/L	mg/L
Tesoro Logistics (former CPL)												
MW-2	5/29/14	7.16	1.215	2.49	17.58	146.3	100	13.8	1.16	<0.0050	<0.001	537
	10/29/14	6.85	1.578	1.07	17.51	91.6	140	2.6	1.33	0.011	<0.001	730
	6/4/15	6.84	1.018	2.21	17.97	-66.6	107	0.1	0.53	<0.0050	<0.001	558
	9/28/15	6.91	1.467	1.77	17.60	-7.0	167	1.7	--	<0.0050	0.0242	711
	8/29/16	7.38	1.40	1.74	19.89	94	110	--	--	<0.020	<0.0050	--
	12/5/16	6.63	1.05	6.16	15.80	282	89	--	--	--	<0.0050	400
	10/24/17	7.34	1.27	8.93	17.58	112.00	110.00	9.70	>0.01	<0.020	0.01	350.00
MW-3	5/28/14	7.15	1.053	--	18.12	-105.6	--	--	--	--	--	--
	10/30/14	6.91	1.136	0.84	17.28	-144.7	--	--	--	--	--	--
	6/4/15	6.82	1.353	0.95	18.61	-154.0	--	--	--	--	--	--
	9/29/15	6.82	1.174	1.01	17.51	-174.4	--	--	--	--	--	--
	8/30/16	7.13	1.190	2.42	18.13	-153.0	--	--	--	--	--	--
	12/2/16	6.86	0.963	3.24	16.06	36	--	--	--	--	--	--
	10/25/17	7.41	1.20	4.01	17.58	-105	--	--	--	--	--	--
MW-4	5/28/14	7.68	0.728	--	17.78	82.2	--	--	--	--	--	--
	10/28/14	7.38	0.741	7.75	16.90	36.0	--	--	--	--	--	--
	6/3/15	7.40	0.751	8.28	17.76	-23.6	--	--	--	--	--	--
	9/28/15	--	--	--	--	--	--	--	--	--	--	--
	8/30/16	8.36	0.813	7.34	18.32	59	--	--	--	--	--	--
	12/5/16	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	5/29/14	7.93	0.095	8.78	15.40	127.1	110	18.5	0.00	<0.0050	<0.001	252
	10/29/14	7.43	0.817	6.79	19.45	84.7	100	0.0	0.40	<0.0050	<0.001	185
	6/3/15	7.53	0.744	8.59	17.18	-44.8	107	0.0	0.00	<0.0050	0.00168	169
	9/28/15	7.53	0.812	6.76	19.23	-8.5	108	15.7	--	<0.0050	<0.001	189
	8/30/16	8.30	0.836	7.39	18.88	110	100	--	--	<0.020	<0.0050	--
	12/5/16	6.83	0.851	6.84	14.54	207	93	--	--	<0.020	<0.0050	170
	10/23/17	7.61	0.863	9.32	19.68	186	98	0.04	0.01	<0.020	<0.0050	180
MW-7	5/28/14	7.63	0.775	--	18.48	101.7	--	--	--	--	--	--
	10/29/14	7.48	0.773	7.43	16.81	84.1	--	--	--	--	--	--
	6/3/15	7.10	0.843	6.78	18.03	-1.8	--	--	--	--	--	--
	9/28/15	7.10	0.798	7.40	17.31	-6.4	103	6.0	--	0.0086	<0.001	203
	8/30/16	7.96	0.964	6.92	19.01	94	--	--	--	--	--	--
	12/5/16	7.06	0.839	7.90	15.85	165	--	--	--	--	--	--

TABLE A-2
HISTORICAL WATER QUALITY AND NATURAL ATTENUATION
PARAMETER DATA - TESORO WELLS
Tesoro Logistics Pasco Terminal
Pasco, Washington

Sample ID	Date	Field Measurements					Analytical Parameters (Field and Lab)					
		pH	Specific Conductance S.U.	DO mg/L	Temp. °C	ORP mV	Sulfate mg/L	Nitrate ppm	Ferrous Iron ppm	Manganese mg/L	Methane mg/L	Alkalinity mg/L
			mS/cm									
	10/24/17	7.83	0.918	7.73	17.67	145	--	--	--	--	--	--
MW-8	5/28/14	7.70	0.755	--	17.50	89.5	110	16.8	0.59	<0.0050	<0.001	242
	10/29/14	7.37	0.774	7.05	17.34	75.3	100	18.4	0.00	0.0072	<0.001	190
	6/3/15	7.39	0.778	7.38	17.90	-42.7	108	16.7	0.00	<0.0050	<0.001	185
	9/28/15	--	--	--	--	--	--	--	--	--	--	--
	8/30/16	7.72	0.843	5.29	19.46	143	100	--	--	<0.020	<0.0050	--
	12/5/16	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	5/28/14	7.65	0.764	--	17.91	137.6	--	--	--	--	--	--
	10/29/14	7.40	0.769	7.45	17.02	80.6	--	--	--	--	--	--
	6/3/15	7.29	0.78	7.32	17.90	-34.4	--	--	--	--	--	--
	9/28/15	--	--	--	--	--	--	--	--	--	--	--
	8/30/16	8.28	0.831	5.40	18.26	100	--	--	--	--	--	--
	12/5/16	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	5/29/14	7.20	0.889	1.08	19.27	102.7	--	--	--	--	--	--
	10/30/14	6.96	0.932	1.12	18.47	89.0	--	--	--	--	--	--
	6/4/15	6.89	0.916	0.94	18.97	-49.8	--	--	--	--	--	--
	9/29/15	6.89	0.914	0.89	18.40	-15.4	--	--	--	--	--	--
	8/29/16	7.32	0.952	2.67	19.99	148	--	--	--	--	--	--
	12/5/16	6.70	0.933	1.73	17.14	204	--	--	--	--	--	--
	10/25/17	7.37	1.040	7.49	18.57	154	--	--	--	--	--	--
MW-12	5/29/14	7.22	0.993	1.81	19.82	-27.5	110	9.2	--	0.270	0.0142	309
	10/30/14	6.82	1.135	2.55	16.73	-50.6	110	0.0	4.68	0.280	0.0870	350
	6/4/15	6.82	1.017	2.17	18.40	-74.5	113	10.4	0.34	0.201	<0.001	312
	9/29/15	6.82	1.124	1.15	16.49	-63.7	107	7.0	--	0.252	0.0362	367
	8/29/16	7.45	1.290	1.10	19.42	-10	83	--	--	0.25	0.760	--
	12/6/16	6.80	0.993	3.22	14.52	121	--	--	--	0.19	0.063	270
	10/24/17	7.50	1.100	3.39	17.70	49	98.0	10.5	<0.01	0.19	0.090	270.0
MW-13	--	--	--	--	--	--	--	--	--	--	--	--

TABLE A-2
HISTORICAL WATER QUALITY AND NATURAL ATTENUATION
PARAMETER DATA - TESORO WELLS
Tesoro Logistics Pasco Terminal
Pasco, Washington

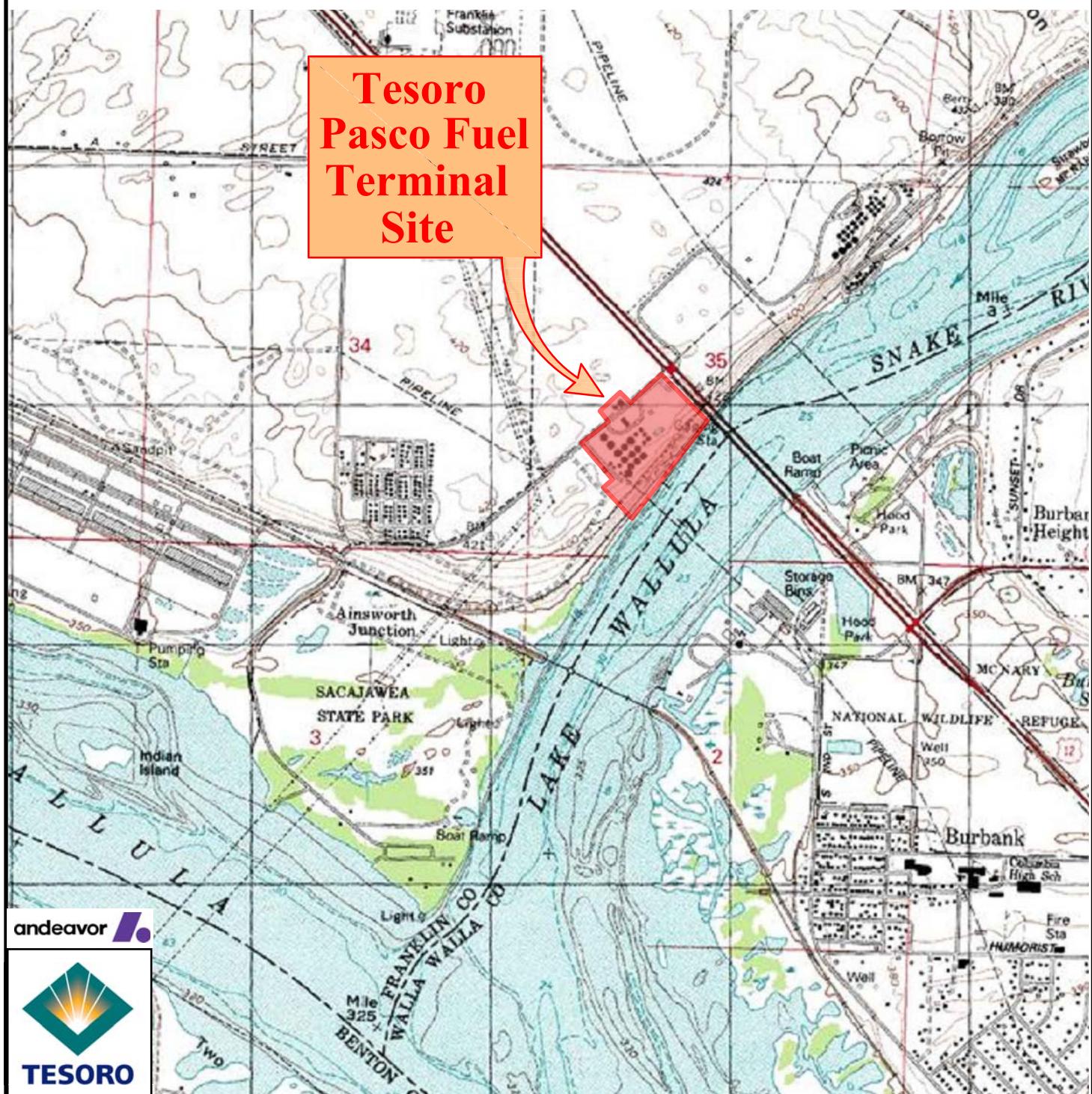
Sample ID	Date	Field Measurements					Analytical Parameters (Field and Lab)					
		pH	Specific Conductance	DO	Temp.	ORP	Sulfate	Nitrate	Ferrous Iron	Manganese	Methane	Alkalinity
		S.U.	mS/cm	mg/L	°C	mV	mg/L	ppm	ppm	mg/L	mg/L	mg/L
MW-14	5/29/14	7.53	0.795	5.70	17.69	101.4	--	--	--	--	--	--
	10/29/14	7.23	0.805	5.65	17.81	105.4	--	--	--	--	--	--
	6/4/15	7.39	0.784	6.22	17.02	-46.6	--	--	--	--	--	--
	8/29/16	7.71	0.877	5.19	18.76	120	--	--	--	--	--	--
	12/5/16	6.97	0.855	6.29	15.43	178	--	--	--	--	--	--
	10/24/17	7.70	0.932	6.18	17.69	144	--	--	--	--	--	--

Notes:

-- Not analyzed or measured
S.U. Standard Unit
mS/cm millisiemens per centimeter
mg/L milligrams per liter
ppm parts per million
°C degrees celsius
mV millivolts
ORP Oxidation Reduction Potential

Water quality parameters collected in the field using a multiparameter YSI-556 meter.
Dissolved oxygen (DO) measured using portable meter with downhole probe.
Sulfate analyzed by EPA Method 300.
Nitrate and ferrous iron measured in the field using colorimeter test kits.
Manganese analyzed by EPA Method 200.7.
Methane analyzed by Method RSK 175M.
Alkalinity analyzed by SM2320B.

FIGURES

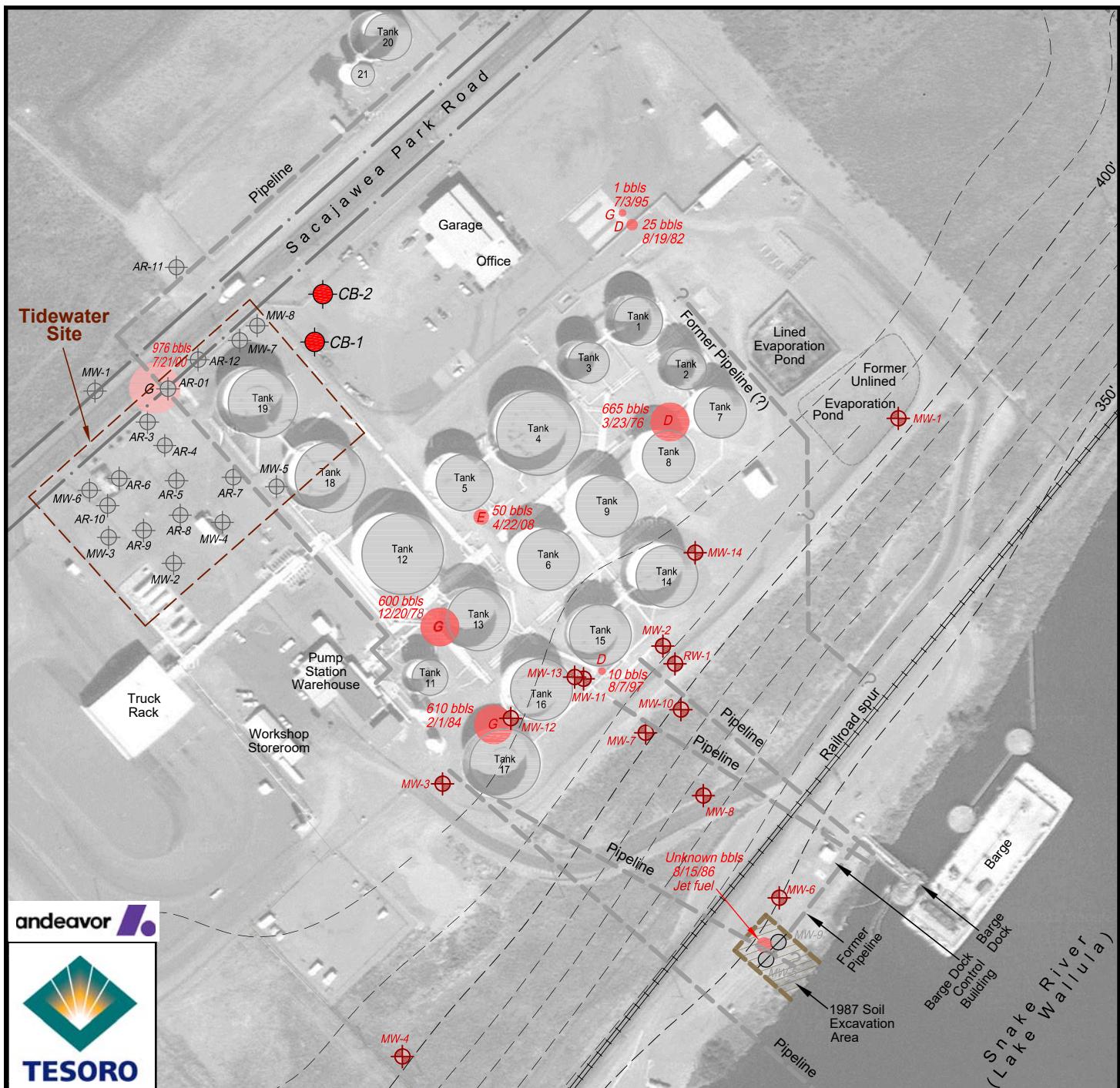


CEECON

SITE VICINITY MAP
Tesoro Pasco Fuel Terminal Site
Pasco, Washington

FIGURE 1

DEC 2017



EXPLANATION

- Previous spill

Number of barrels
(circle relative to size of spill)

610 bbls
2/1/84

G

Fuel spilled

Date of spill

Imagery: earthexplorer.usgs.gov
Site information: URS, 2011,
GeoEngineers, 1987

0 **200'**

*Approximate scale
(Feet)*



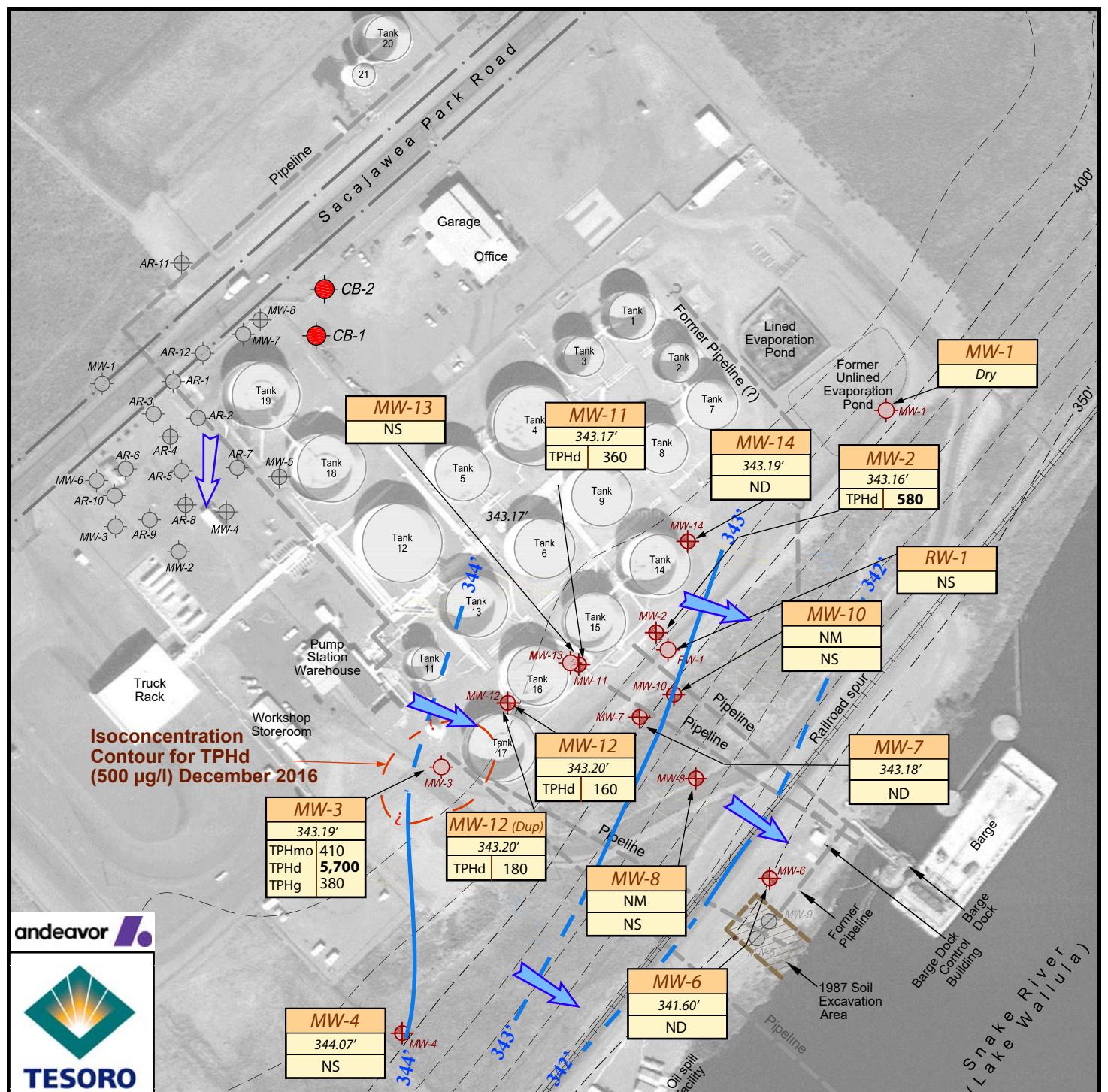
AREA MAP

Tesoro Pasco Fuel Terminal Site Pasco, Washington

FIGURE 2

DEC 2017

CEECON



MW-2
 Well name
 Ground-water
 elevation (feet MSL)
 343.16'
 on Oct. 23-25, 2017
TPHd **580**
 Chemical
 concentration ($\mu\text{g/l}$)
ND Non-detect for all
 constituents
NS Not sampled

- Ground-water flow direction inferred from historical conditions (nearly flat gradient)
- Ground-water flow direction near Snake River
- Concentrations in **bold** exceed Ecology cleanup levels

343' — Ground-water elevation contour (feet MSL; dashed line one informed)

0 100' 200'
Imagery: earthexplorer.usgs.gov
Site information: URS, 2011
GeoEngineers, 1987



EXPLANATION

- Tesoro well
 - Tidewater well
 - Former well
 - Tesoro boring (6/15)

2017 GROUND-WATER MONITORING RESULTS
October 23-25, 2017
Tesoro Pasco Fuel Terminal Site
Pasco, Washington

FIGURE 3

DEC 2017

ATTACHMENT
LABORATORY ANALYTICAL REPORT

1

2

3

4

5

6

7

8

9

10

11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle

5755 8th Street East

Tacoma, WA 98424

Tel: (253)922-2310

TestAmerica Job ID: 580-72468-1

Client Project/Site: Tesoro Pasco

Sampling Event: Pasco

For:

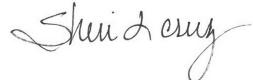
CEECON Testing, Inc.

434 North Canal Street

Suite Six

South San Francisco, California 94080

Attn: Michael Hodges



Authorized for release by:

11/17/2017 2:54:38 PM

Sheri Cruz, Project Manager I

(253)922-2310

sheri.cruz@testamericainc.com

LINKS

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results through

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The
Expert

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Job ID: 580-72468-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative 580-72468-1

Comments

No additional comments.

Receipt

The samples were received on 10/27/2017 3:43 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were -0.4° C and 1.7° C.

GC/MS VOA

Method(s) 8260C: The batch CCV and LCSD for 260864 recovered naphthalene below acceptance criteria. The samples could not be re-analyzed within hold, therefore the data has been reported as secondary and both sets of data reported to confirm the first run in hold.C-MW-03-10/17 (580-72468-2), C-MW-07-10/17 (580-72468-4), C-MW-11-10/17 (580-72468-5), C-MW-12-10/17 (580-72468-6), C-MW-12D-10/17 (580-72468-7), C-MW-14-10/17 (580-72468-8), (LCS 580-260864/13), (LCSD 580-260864/14) and (MB 580-260864/12)

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-260932 recovered above the upper control limit for Naphthalene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: C-EB-10/17 (580-72468-9), Trip Blank (580-72468-10) and (CCVIS 580-260932/3).

Method(s) 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 580-260932 recovered outside control limits for the following analytes: Naphthalene.

Method(s) 8260C: The following analyte(s) recovered outside control limits for the LCS/LCSD associated with analytical batch 580-260932: Naphthalene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8260C: The surrogate dibromofluoromethane recovery for the blank and following samples associated with analytical batch 580-261118 was outside control limits. No analytes associated with this surrogate have been reported.

Method(s) 8260C: Surrogate Dibromofluoromethane was out 2% low. The other 4 surrogates were within acceptance criteria and reanalysis was for Naphthalene only. No analytes associated with this surrogate have been reported. C-MW-06-10/17 (580-72468-3)

Method(s) 8260C: Reanalysis of the following samples was performed outside of the analytical holding time due to quality control deficiencies in the initial analysis. : C-MW-02-10/17 (580-72468-1), C-MW-03-10/17 (580-72468-2), C-MW-06-10/17 (580-72468-3), C-MW-07-10/17 (580-72468-4), C-MW-11-10/17 (580-72468-5), C-MW-12-10/17 (580-72468-6), C-MW-12D-10/17 (580-72468-7). and C-MW-14-10/17 (580-72468-8). Both runs in hold and out of hold were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) NWTPH-Dx: The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: C-MW-02-10/17 (580-72468-1).

Method(s) RSK-175: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-472501.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Job ID: 580-72468-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-02-10/17

Date Collected: 10/24/17 12:10

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.0		ug/L			11/07/17 02:29	1
1,2-DCA	ND		2.0		ug/L			11/07/17 02:29	1
Benzene	ND		2.0		ug/L			11/07/17 02:29	1
DIPE	ND		2.0		ug/L			11/07/17 02:29	1
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/07/17 02:29	1
Ethylbenzene	ND		3.0		ug/L			11/07/17 02:29	1
MTBE	ND		2.0		ug/L			11/07/17 02:29	1
Naphthalene	ND *		4.0		ug/L			11/07/17 02:29	1
t-Butyl alcohol	ND		100		ug/L			11/07/17 02:29	1
Tert-amyl methyl ether	ND		6.0		ug/L			11/07/17 02:29	1
Toluene	ND		2.0		ug/L			11/07/17 02:29	1
Xylenes, Total	ND		3.0		ug/L			11/07/17 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 126					11/07/17 02:29	1
4-Bromofluorobenzene (Surr)	98		75 - 125					11/07/17 02:29	1
Dibromofluoromethane (Surr)	102		77 - 120					11/07/17 02:29	1
Toluene-d8 (Surr)	101		80 - 122					11/07/17 02:29	1
Trifluorotoluene (Surr)	102		80 - 120					11/07/17 02:29	1

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H	4.0		ug/L			11/10/17 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 126					11/10/17 13:57	1
4-Bromofluorobenzene (Surr)	94		75 - 125					11/10/17 13:57	1
Dibromofluoromethane (Surr)	102		77 - 120					11/10/17 13:57	1
Toluene-d8 (Surr)	113		80 - 122					11/10/17 13:57	1
Trifluorotoluene (Surr)	92		80 - 120					11/10/17 13:57	1

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		10		mg/L			11/01/17 17:01	1
Methanol	ND		10		mg/L			11/01/17 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Isopropyl acetate (Surr)	93		52 - 128					11/01/17 17:01	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25		mg/L			10/31/17 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		58 - 133					10/31/17 15:01	1
Trifluorotoluene (Surr)	109		77 - 128					10/31/17 15:01	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.0083		0.0050		mg/L			11/02/17 12:59	1

TestAmerica Seattle

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-02-10/17

Lab Sample ID: 580-72468-1

Date Collected: 10/24/17 12:10

Matrix: Water

Date Received: 10/27/17 15:43

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	79		62 - 124		11/02/17 12:59	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.58		0.10		mg/L		11/03/17 09:12	11/06/17 18:20	1
Motor Oil (>C24-C36)	ND		0.25		mg/L		11/03/17 09:12	11/06/17 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	69		50 - 150		11/03/17 09:12	11/06/17 18:20

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.020		mg/L		10/31/17 17:34	11/01/17 08:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	110		6.0		mg/L		10/31/17 18:33		5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	350		5.0		mg/L		11/04/17 17:47		1
Bicarbonate Alkalinity as CaCO ₃	350		5.0		mg/L		11/04/17 17:47		1
Carbonate Alkalinity as CaCO ₃	ND		5.0		mg/L		11/04/17 17:47		1
Hydroxide Alkalinity as CaCO ₃	ND		5.0		mg/L		11/04/17 17:47		1

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-03-10/17

Date Collected: 10/25/17 10:30

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.0		ug/L			11/07/17 16:24	1
1,2-DCA	ND		2.0		ug/L			11/07/17 16:24	1
Benzene	ND		2.0		ug/L			11/07/17 16:24	1
DIPE	ND		2.0		ug/L			11/07/17 16:24	1
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/07/17 16:24	1
Ethylbenzene	ND		3.0		ug/L			11/07/17 16:24	1
MTBE	ND		2.0		ug/L			11/07/17 16:24	1
Naphthalene	ND *		4.0		ug/L			11/07/17 16:24	1
t-Butyl alcohol	ND		100		ug/L			11/07/17 16:24	1
Tert-amyl methyl ether	ND		6.0		ug/L			11/07/17 16:24	1
Toluene	ND		2.0		ug/L			11/07/17 16:24	1
Xylenes, Total	ND		3.0		ug/L			11/07/17 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 126					11/07/17 16:24	1
4-Bromofluorobenzene (Surr)	99		75 - 125					11/07/17 16:24	1
Dibromofluoromethane (Surr)	100		77 - 120					11/07/17 16:24	1
Toluene-d8 (Surr)	100		80 - 122					11/07/17 16:24	1
Trifluorotoluene (Surr)	104		80 - 120					11/07/17 16:24	1

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND *		4.0		ug/L			11/08/17 10:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 126					11/08/17 10:49	1
4-Bromofluorobenzene (Surr)	97		75 - 125					11/08/17 10:49	1
Dibromofluoromethane (Surr)	102		77 - 120					11/08/17 10:49	1
Toluene-d8 (Surr)	99		80 - 122					11/08/17 10:49	1
Trifluorotoluene (Surr)	99		80 - 120					11/08/17 10:49	1

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		10		mg/L			11/01/17 17:19	1
Methanol	ND		10		mg/L			11/01/17 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Isopropyl acetate (Surr)	95		52 - 128					11/01/17 17:19	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	0.38		0.25		mg/L			10/31/17 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		58 - 133					10/31/17 15:33	1
Trifluorotoluene (Surr)	105		77 - 128					10/31/17 15:33	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	5.7		0.10		mg/L		11/03/17 09:12	11/06/17 18:42	1
Motor Oil (>C24-C36)	0.41		0.25		mg/L		11/03/17 09:12	11/06/17 18:42	1

TestAmerica Seattle

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-03-10/17
Date Collected: 10/25/17 10:30
Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	82		50 - 150	11/03/17 09:12	11/06/17 18:42	1

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Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-06-10/17

Date Collected: 10/23/17 10:35

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.0		ug/L			11/06/17 22:20	1
1,2-DCA	ND		2.0		ug/L			11/06/17 22:20	1
Benzene	ND		2.0		ug/L			11/06/17 22:20	1
DIPE	ND		2.0		ug/L			11/06/17 22:20	1
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/06/17 22:20	1
Ethylbenzene	ND		3.0		ug/L			11/06/17 22:20	1
MTBE	ND		2.0		ug/L			11/06/17 22:20	1
Naphthalene	ND *		4.0		ug/L			11/06/17 22:20	1
t-Butyl alcohol	ND		100		ug/L			11/06/17 22:20	1
Tert-amyl methyl ether	ND		6.0		ug/L			11/06/17 22:20	1
Toluene	ND		2.0		ug/L			11/06/17 22:20	1
Xylenes, Total	ND		3.0		ug/L			11/06/17 22:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 126					11/06/17 22:20	1
4-Bromofluorobenzene (Surr)	100		75 - 125					11/06/17 22:20	1
Dibromofluoromethane (Surr)	101		77 - 120					11/06/17 22:20	1
Toluene-d8 (Surr)	102		80 - 122					11/06/17 22:20	1
Trifluorotoluene (Surr)	104		80 - 120					11/06/17 22:20	1

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H	4.0		ug/L			11/10/17 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		80 - 126					11/10/17 14:22	1
4-Bromofluorobenzene (Surr)	96		75 - 125					11/10/17 14:22	1
Dibromofluoromethane (Surr)	74	X	77 - 120					11/10/17 14:22	1
Toluene-d8 (Surr)	112		80 - 122					11/10/17 14:22	1
Trifluorotoluene (Surr)	93		80 - 120					11/10/17 14:22	1

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		10		mg/L			11/01/17 17:25	1
Methanol	ND		10		mg/L			11/01/17 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Isopropyl acetate (Surr)	103		52 - 128					11/01/17 17:25	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25		mg/L			10/31/17 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		58 - 133					10/31/17 16:05	1
Trifluorotoluene (Surr)	107		77 - 128					10/31/17 16:05	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		0.0050		mg/L			11/01/17 12:33	1

TestAmerica Seattle

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-06-10/17

Lab Sample ID: 580-72468-3

Date Collected: 10/23/17 10:35
Date Received: 10/27/17 15:43

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	93		62 - 124		11/01/17 12:33	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.10		mg/L		11/03/17 09:12	11/06/17 19:04	1
Motor Oil (>C24-C36)	ND		0.25		mg/L		11/03/17 09:12	11/06/17 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		50 - 150		11/03/17 09:12	11/06/17 19:04

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.020		mg/L		10/31/17 17:34	11/01/17 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	98		1.2		mg/L		10/31/17 13:59		1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	180		5.0		mg/L		11/04/17 17:48		1
Bicarbonate Alkalinity as CaCO ₃	180		5.0		mg/L		11/04/17 17:48		1
Carbonate Alkalinity as CaCO ₃	ND		5.0		mg/L		11/04/17 17:48		1
Hydroxide Alkalinity as CaCO ₃	ND		5.0		mg/L		11/04/17 17:48		1

TestAmerica Seattle

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-07-10/17

Date Collected: 10/24/17 15:03

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.0		ug/L			11/07/17 16:49	1
1,2-DCA	ND		2.0		ug/L			11/07/17 16:49	1
Benzene	ND		2.0		ug/L			11/07/17 16:49	1
DIPE	ND		2.0		ug/L			11/07/17 16:49	1
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/07/17 16:49	1
Ethylbenzene	ND		3.0		ug/L			11/07/17 16:49	1
MTBE	ND		2.0		ug/L			11/07/17 16:49	1
Naphthalene	ND *		4.0		ug/L			11/07/17 16:49	1
t-Butyl alcohol	ND		100		ug/L			11/07/17 16:49	1
Tert-amyl methyl ether	ND		6.0		ug/L			11/07/17 16:49	1
Toluene	ND		2.0		ug/L			11/07/17 16:49	1
Xylenes, Total	ND		3.0		ug/L			11/07/17 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 126					11/07/17 16:49	1
4-Bromofluorobenzene (Surr)	99		75 - 125					11/07/17 16:49	1
Dibromofluoromethane (Surr)	109		77 - 120					11/07/17 16:49	1
Toluene-d8 (Surr)	101		80 - 122					11/07/17 16:49	1
Trifluorotoluene (Surr)	103		80 - 120					11/07/17 16:49	1

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H	4.0		ug/L			11/10/17 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 126					11/10/17 14:48	1
4-Bromofluorobenzene (Surr)	95		75 - 125					11/10/17 14:48	1
Dibromofluoromethane (Surr)	84		77 - 120					11/10/17 14:48	1
Toluene-d8 (Surr)	111		80 - 122					11/10/17 14:48	1
Trifluorotoluene (Surr)	80		80 - 120					11/10/17 14:48	1

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		10		mg/L			11/01/17 17:31	1
Methanol	ND		10		mg/L			11/01/17 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Isopropyl acetate (Surr)	105		52 - 128					11/01/17 17:31	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25		mg/L			10/31/17 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		58 - 133					10/31/17 16:37	1
Trifluorotoluene (Surr)	107		77 - 128					10/31/17 16:37	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.10		mg/L		11/03/17 09:12	11/06/17 19:48	1
Motor Oil (>C24-C36)	ND		0.25		mg/L		11/03/17 09:12	11/06/17 19:48	1

TestAmerica Seattle

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-07-10/17

Date Collected: 10/24/17 15:03
Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	76		50 - 150	11/03/17 09:12	11/06/17 19:48	1

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Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-11-10/17

Date Collected: 10/25/17 08:55

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.0		ug/L			11/07/17 17:14	1
1,2-DCA	ND		2.0		ug/L			11/07/17 17:14	1
Benzene	ND		2.0		ug/L			11/07/17 17:14	1
DIPE	ND		2.0		ug/L			11/07/17 17:14	1
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/07/17 17:14	1
Ethylbenzene	ND		3.0		ug/L			11/07/17 17:14	1
MTBE	ND		2.0		ug/L			11/07/17 17:14	1
Naphthalene	ND *		4.0		ug/L			11/07/17 17:14	1
t-Butyl alcohol	ND		100		ug/L			11/07/17 17:14	1
Tert-amyl methyl ether	ND		6.0		ug/L			11/07/17 17:14	1
Toluene	ND		2.0		ug/L			11/07/17 17:14	1
Xylenes, Total	ND		3.0		ug/L			11/07/17 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 126		11/07/17 17:14	1
4-Bromofluorobenzene (Surr)	98		75 - 125		11/07/17 17:14	1
Dibromofluoromethane (Surr)	102		77 - 120		11/07/17 17:14	1
Toluene-d8 (Surr)	99		80 - 122		11/07/17 17:14	1
Trifluorotoluene (Surr)	101		80 - 120		11/07/17 17:14	1

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND *		4.0		ug/L			11/08/17 11:15	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	100		80 - 126		11/08/17 11:15	1			
4-Bromofluorobenzene (Surr)	97		75 - 125		11/08/17 11:15	1			
Dibromofluoromethane (Surr)	99		77 - 120		11/08/17 11:15	1			
Toluene-d8 (Surr)	99		80 - 122		11/08/17 11:15	1			
Trifluorotoluene (Surr)	100		80 - 120		11/08/17 11:15	1			

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		10		mg/L			11/01/17 17:37	1
Methanol	ND		10		mg/L			11/01/17 17:37	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Isopropyl acetate (Surr)	111		52 - 128		11/01/17 17:37	1			

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25		mg/L			10/31/17 17:09	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	93		58 - 133		10/31/17 17:09	1			
Trifluorotoluene (Surr)	107		77 - 128		10/31/17 17:09	1			

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.36		0.10		mg/L		11/03/17 09:12	11/06/17 20:10	1
Motor Oil (>C24-C36)	ND		0.25		mg/L		11/03/17 09:12	11/06/17 20:10	1

TestAmerica Seattle

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-11-10/17
Date Collected: 10/25/17 08:55
Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	64		50 - 150	11/03/17 09:12	11/06/17 20:10	1

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Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-12-10/17

Date Collected: 10/24/17 16:30

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.0		ug/L			11/07/17 17:39	1
1,2-DCA	ND		2.0		ug/L			11/07/17 17:39	1
Benzene	ND		2.0		ug/L			11/07/17 17:39	1
DIPE	ND		2.0		ug/L			11/07/17 17:39	1
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/07/17 17:39	1
Ethylbenzene	ND		3.0		ug/L			11/07/17 17:39	1
MTBE	ND		2.0		ug/L			11/07/17 17:39	1
Naphthalene	ND *		4.0		ug/L			11/07/17 17:39	1
t-Butyl alcohol	ND		100		ug/L			11/07/17 17:39	1
Tert-amyl methyl ether	ND		6.0		ug/L			11/07/17 17:39	1
Toluene	ND		2.0		ug/L			11/07/17 17:39	1
Xylenes, Total	ND		3.0		ug/L			11/07/17 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 126					11/07/17 17:39	1
4-Bromofluorobenzene (Surr)	100		75 - 125					11/07/17 17:39	1
Dibromofluoromethane (Surr)	103		77 - 120					11/07/17 17:39	1
Toluene-d8 (Surr)	103		80 - 122					11/07/17 17:39	1
Trifluorotoluene (Surr)	102		80 - 120					11/07/17 17:39	1

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H	4.0		ug/L			11/10/17 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 126					11/10/17 15:13	1
4-Bromofluorobenzene (Surr)	76		75 - 125					11/10/17 15:13	1
Dibromofluoromethane (Surr)	101		77 - 120					11/10/17 15:13	1
Toluene-d8 (Surr)	113		80 - 122					11/10/17 15:13	1
Trifluorotoluene (Surr)	92		80 - 120					11/10/17 15:13	1

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		10		mg/L			11/01/17 17:43	1
Methanol	ND		10		mg/L			11/01/17 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Isopropyl acetate (Surr)	102		52 - 128					11/01/17 17:43	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25		mg/L			10/31/17 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		58 - 133					10/31/17 18:13	1
Trifluorotoluene (Surr)	106		77 - 128					10/31/17 18:13	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.090		0.0050		mg/L			11/02/17 13:06	1

TestAmerica Seattle

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-12-10/17

Date Collected: 10/24/17 16:30

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-6

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	79		62 - 124		11/02/17 13:06	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.16		0.10		mg/L		11/03/17 09:12	11/06/17 20:32	1
Motor Oil (>C24-C36)	ND		0.25		mg/L		11/03/17 09:12	11/06/17 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150		11/03/17 09:12	11/06/17 20:32

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.19		0.020		mg/L		10/31/17 17:34	11/01/17 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	98		6.0		mg/L		10/31/17 18:45		5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	270		5.0		mg/L		11/04/17 17:48		1
Bicarbonate Alkalinity as CaCO ₃	270		5.0		mg/L		11/04/17 17:48		1
Carbonate Alkalinity as CaCO ₃	ND		5.0		mg/L		11/04/17 17:48		1
Hydroxide Alkalinity as CaCO ₃	ND		5.0		mg/L		11/04/17 17:48		1

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-12D-10/17

Date Collected: 10/24/17 16:30

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.0		ug/L			11/07/17 18:04	1
1,2-DCA	ND		2.0		ug/L			11/07/17 18:04	1
Benzene	ND		2.0		ug/L			11/07/17 18:04	1
DIPE	ND		2.0		ug/L			11/07/17 18:04	1
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/07/17 18:04	1
Ethylbenzene	ND		3.0		ug/L			11/07/17 18:04	1
MTBE	ND		2.0		ug/L			11/07/17 18:04	1
Naphthalene	ND *		4.0		ug/L			11/07/17 18:04	1
t-Butyl alcohol	ND		100		ug/L			11/07/17 18:04	1
Tert-amyl methyl ether	ND		6.0		ug/L			11/07/17 18:04	1
Toluene	ND		2.0		ug/L			11/07/17 18:04	1
Xylenes, Total	ND		3.0		ug/L			11/07/17 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 126					11/07/17 18:04	1
4-Bromofluorobenzene (Surr)	98		75 - 125					11/07/17 18:04	1
Dibromofluoromethane (Surr)	100		77 - 120					11/07/17 18:04	1
Toluene-d8 (Surr)	100		80 - 122					11/07/17 18:04	1
Trifluorotoluene (Surr)	102		80 - 120					11/07/17 18:04	1

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H	4.0		ug/L			11/13/17 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		80 - 126					11/13/17 17:54	1
4-Bromofluorobenzene (Surr)	107		75 - 125					11/13/17 17:54	1
Dibromofluoromethane (Surr)	106		77 - 120					11/13/17 17:54	1
Toluene-d8 (Surr)	112		80 - 122					11/13/17 17:54	1
Trifluorotoluene (Surr)	92		80 - 120					11/13/17 17:54	1

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		10		mg/L			11/01/17 17:49	1
Methanol	ND		10		mg/L			11/01/17 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Isopropyl acetate (Surr)	89		52 - 128					11/01/17 17:49	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25		mg/L			10/31/17 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		58 - 133					10/31/17 18:45	1
Trifluorotoluene (Surr)	105		77 - 128					10/31/17 18:45	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.18		0.10		mg/L		11/03/17 09:12	11/06/17 20:53	1
Motor Oil (>C24-C36)	ND		0.25		mg/L		11/03/17 09:12	11/06/17 20:53	1

TestAmerica Seattle

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-12D-10/17

Date Collected: 10/24/17 16:30

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-7

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	70		50 - 150	11/03/17 09:12	11/06/17 20:53	1

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Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-14-10/17

Date Collected: 10/24/17 14:05

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.0		ug/L			11/07/17 18:30	1
1,2-DCA	ND		2.0		ug/L			11/07/17 18:30	1
Benzene	ND		2.0		ug/L			11/07/17 18:30	1
DIPE	ND		2.0		ug/L			11/07/17 18:30	1
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/07/17 18:30	1
Ethylbenzene	ND		3.0		ug/L			11/07/17 18:30	1
MTBE	ND		2.0		ug/L			11/07/17 18:30	1
Naphthalene	ND *		4.0		ug/L			11/07/17 18:30	1
t-Butyl alcohol	ND		100		ug/L			11/07/17 18:30	1
Tert-amyl methyl ether	ND		6.0		ug/L			11/07/17 18:30	1
Toluene	ND		2.0		ug/L			11/07/17 18:30	1
Xylenes, Total	ND		3.0		ug/L			11/07/17 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		11/07/17 18:30	1
4-Bromofluorobenzene (Surr)	100		75 - 125		11/07/17 18:30	1
Dibromofluoromethane (Surr)	106		77 - 120		11/07/17 18:30	1
Toluene-d8 (Surr)	99		80 - 122		11/07/17 18:30	1
Trifluorotoluene (Surr)	103		80 - 120		11/07/17 18:30	1

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H	4.0		ug/L			11/10/17 15:38	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	83		80 - 126		11/10/17 15:38	1			
4-Bromofluorobenzene (Surr)	95		75 - 125		11/10/17 15:38	1			
Dibromofluoromethane (Surr)	94		77 - 120		11/10/17 15:38	1			
Toluene-d8 (Surr)	113		80 - 122		11/10/17 15:38	1			
Trifluorotoluene (Surr)	97		80 - 120		11/10/17 15:38	1			

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		10		mg/L			11/01/17 17:55	1
Methanol	ND		10		mg/L			11/01/17 17:55	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Isopropyl acetate (Surr)	103		52 - 128		11/01/17 17:55	1			

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25		mg/L			10/31/17 19:17	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	92		58 - 133		10/31/17 19:17	1			
Trifluorotoluene (Surr)	104		77 - 128		10/31/17 19:17	1			

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.10		mg/L		11/03/17 09:12	11/06/17 21:15	1
Motor Oil (>C24-C36)	ND		0.25		mg/L		11/03/17 09:12	11/06/17 21:15	1

TestAmerica Seattle

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-14-10/17
Date Collected: 10/24/17 14:05
Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-8
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	79		50 - 150	11/03/17 09:12	11/06/17 21:15	1

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Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-EB-10/17

Date Collected: 10/25/17 09:40

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-9

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.0		ug/L			11/08/17 07:53	1
1,2-DCA	ND		2.0		ug/L			11/08/17 07:53	1
Benzene	ND		2.0		ug/L			11/08/17 07:53	1
DIPE	ND		2.0		ug/L			11/08/17 07:53	1
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/08/17 07:53	1
Ethylbenzene	ND		3.0		ug/L			11/08/17 07:53	1
MTBE	ND		2.0		ug/L			11/08/17 07:53	1
Naphthalene	ND *		4.0		ug/L			11/08/17 07:53	1
t-Butyl alcohol	ND		100		ug/L			11/08/17 07:53	1
Tert-amyl methyl ether	ND		6.0		ug/L			11/08/17 07:53	1
Toluene	ND		2.0		ug/L			11/08/17 07:53	1
Xylenes, Total	ND		3.0		ug/L			11/08/17 07:53	1
<hr/>									
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 126					11/08/17 07:53	1
4-Bromofluorobenzene (Surr)	99		75 - 125					11/08/17 07:53	1
Dibromofluoromethane (Surr)	97		77 - 120					11/08/17 07:53	1
Toluene-d8 (Surr)	99		80 - 122					11/08/17 07:53	1
Trifluorotoluene (Surr)	101		80 - 120					11/08/17 07:53	1

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		10		mg/L			11/01/17 18:02	1
Methanol	ND		10		mg/L			11/01/17 18:02	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
Isopropyl acetate (Surr)	108		52 - 128					11/01/17 18:02	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25		mg/L			10/31/17 19:49	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		58 - 133					10/31/17 19:49	1
Trifluorotoluene (Surr)	106		77 - 128					10/31/17 19:49	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.13		0.10		mg/L			11/03/17 09:12	1
Motor Oil (>C24-C36)	ND		0.25		mg/L			11/03/17 09:12	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150					11/03/17 09:12	1

TestAmerica Seattle

Client Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: Trip Blank

Date Collected: 10/25/17 06:00
Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-10

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	1
1,2-Dibromoethane	ND		2.0		ug/L			11/08/17 03:40		6
1,2-DCA	ND		2.0		ug/L			11/08/17 03:40		7
Benzene	ND		2.0		ug/L			11/08/17 03:40		8
DIPE	ND		2.0		ug/L			11/08/17 03:40		9
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/08/17 03:40		10
Ethylbenzene	ND		3.0		ug/L			11/08/17 03:40		11
MTBE	ND		2.0		ug/L			11/08/17 03:40		
Naphthalene	ND *		4.0		ug/L			11/08/17 03:40		
t-Butyl alcohol	ND		100		ug/L			11/08/17 03:40		
Tert-amyl methyl ether	ND		6.0		ug/L			11/08/17 03:40		
Toluene	ND		2.0		ug/L			11/08/17 03:40		
Xylenes, Total	ND		3.0		ug/L			11/08/17 03:40		
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	96		80 - 126					11/08/17 03:40		
4-Bromofluorobenzene (Surr)	98		75 - 125					11/08/17 03:40		
Dibromofluoromethane (Surr)	99		77 - 120					11/08/17 03:40		
Toluene-d8 (Surr)	100		80 - 122					11/08/17 03:40		
Trifluorotoluene (Surr)	101		80 - 120					11/08/17 03:40		

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25		mg/L			10/31/17 13:58	
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		58 - 133					10/31/17 13:58	
Trifluorotoluene (Surr)	107		77 - 128					10/31/17 13:58	

TestAmerica Seattle

QC Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-260840/13

Matrix: Water

Analysis Batch: 260840

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dibromoethane	ND		2.0		ug/L			11/06/17 19:51	1
1,2-DCA	ND		2.0		ug/L			11/06/17 19:51	1
Benzene	ND		2.0		ug/L			11/06/17 19:51	1
DIPE	ND		2.0		ug/L			11/06/17 19:51	1
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/06/17 19:51	1
Ethylbenzene	ND		3.0		ug/L			11/06/17 19:51	1
MTBE	ND		2.0		ug/L			11/06/17 19:51	1
t-Butyl alcohol	ND		100		ug/L			11/06/17 19:51	1
Tert-amyl methyl ether	ND		6.0		ug/L			11/06/17 19:51	1
Toluene	ND		2.0		ug/L			11/06/17 19:51	1
Xylenes, Total	ND		3.0		ug/L			11/06/17 19:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	101		80 - 126		11/06/17 19:51	1
4-Bromofluorobenzene (Surr)	98		75 - 125		11/06/17 19:51	1
Dibromofluoromethane (Surr)	100		77 - 120		11/06/17 19:51	1
Toluene-d8 (Surr)	101		80 - 122		11/06/17 19:51	1
Trifluorotoluene (Surr)	102		80 - 120		11/06/17 19:51	1

Lab Sample ID: LCS 580-260840/14

Matrix: Water

Analysis Batch: 260840

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
1,2-Dibromoethane	10.0	9.92		ug/L		99	79 - 120
1,2-DCA	10.0	9.87		ug/L		99	76 - 131
Benzene	10.0	10.4		ug/L		104	75 - 120
DIPE	12.5	12.8		ug/L		102	71 - 124
Ethyl-t-butyl ether (ETBE)	12.5	12.5		ug/L		100	79 - 120
Ethylbenzene	10.0	11.0		ug/L		110	75 - 120
MTBE	10.0	9.77		ug/L		98	79 - 120
m-Xylene & p-Xylene	10.0	10.4		ug/L		104	75 - 120
o-Xylene	10.0	10.6		ug/L		106	74 - 120
t-Butyl alcohol	100	92.8	J	ug/L		93	26 - 150
Tert-amyl methyl ether	12.5	12.7		ug/L		102	75 - 125
Toluene	10.0	10.5		ug/L		105	75 - 120
Xylenes, Total	20.0	21.0		ug/L		105	74 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		80 - 126
4-Bromofluorobenzene (Surr)	100		75 - 125
Dibromofluoromethane (Surr)	101		77 - 120
Toluene-d8 (Surr)	100		80 - 122
Trifluorotoluene (Surr)	100		80 - 120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

QC Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-260840/15

Matrix: Water

Analysis Batch: 260840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	10.0	9.97		ug/L		100	79 - 120	0	26
1,2-DCA	10.0	9.83		ug/L		98	76 - 131	0	11
Benzene	10.0	10.4		ug/L		104	75 - 120	0	14
DIPE	12.5	13.0		ug/L		104	71 - 124	1	11
Ethyl-t-butyl ether (ETBE)	12.5	12.7		ug/L		102	79 - 120	2	17
Ethylbenzene	10.0	11.2		ug/L		112	75 - 120	2	14
MTBE	10.0	10.0		ug/L		100	79 - 120	3	18
m-Xylene & p-Xylene	10.0	10.7		ug/L		107	75 - 120	3	14
o-Xylene	10.0	10.8		ug/L		108	74 - 120	2	16
t-Butyl alcohol	100	85.9	J	ug/L		86	26 - 150	8	35
Tert-amyl methyl ether	12.5	12.8		ug/L		102	75 - 125	0	16
Toluene	10.0	10.6		ug/L		106	75 - 120	1	13
Xylenes, Total	20.0	21.5		ug/L		108	74 - 120	2	15

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 126
4-Bromofluorobenzene (Surr)	100		75 - 125
Dibromofluoromethane (Surr)	99		77 - 120
Toluene-d8 (Surr)	99		80 - 122
Trifluorotoluene (Surr)	100		80 - 120

Lab Sample ID: MB 580-260864/12

Matrix: Water

Analysis Batch: 260864

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.0		ug/L			11/07/17 14:44	1
1,2-DCA	ND		2.0		ug/L			11/07/17 14:44	1
Benzene	ND		2.0		ug/L			11/07/17 14:44	1
DIPE	ND		2.0		ug/L			11/07/17 14:44	1
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/07/17 14:44	1
Ethylbenzene	ND		3.0		ug/L			11/07/17 14:44	1
MTBE	ND		2.0		ug/L			11/07/17 14:44	1
Naphthalene	ND		4.0		ug/L			11/07/17 14:44	1
t-Butyl alcohol	ND		100		ug/L			11/07/17 14:44	1
Tert-amyl methyl ether	ND		6.0		ug/L			11/07/17 14:44	1
Toluene	ND		2.0		ug/L			11/07/17 14:44	1
Xylenes, Total	ND		3.0		ug/L			11/07/17 14:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 126		11/07/17 14:44	1
4-Bromofluorobenzene (Surr)	99		75 - 125		11/07/17 14:44	1
Dibromofluoromethane (Surr)	99		77 - 120		11/07/17 14:44	1
Toluene-d8 (Surr)	101		80 - 122		11/07/17 14:44	1
Trifluorotoluene (Surr)	103		80 - 120		11/07/17 14:44	1

TestAmerica Seattle

QC Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-260864/13

Matrix: Water

Analysis Batch: 260864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
1,2-Dibromoethane	10.0	9.37		ug/L		94	79 - 120	
1,2-DCA	10.0	9.52		ug/L		95	76 - 131	
Benzene	10.0	9.33		ug/L		93	75 - 120	
DIPE	12.5	11.7		ug/L		94	71 - 124	
Ethyl-t-butyl ether (ETBE)	12.5	11.8		ug/L		95	79 - 120	
Ethylbenzene	10.0	9.69		ug/L		97	75 - 120	
MTBE	10.0	9.19		ug/L		92	79 - 120	
m-Xylene & p-Xylene	10.0	9.27		ug/L		93	75 - 120	
Naphthalene	10.0	10.6		ug/L		106	71 - 126	
o-Xylene	10.0	9.53		ug/L		95	74 - 120	
t-Butyl alcohol	100	72.0	J	ug/L		72	26 - 150	
Tert-amyl methyl ether	12.5	12.1		ug/L		97	75 - 125	
Toluene	10.0	9.48		ug/L		95	75 - 120	
Xylenes, Total	20.0	18.8		ug/L		94	74 - 120	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		80 - 126
4-Bromofluorobenzene (Surr)	102		75 - 125
Dibromofluoromethane (Surr)	101		77 - 120
Toluene-d8 (Surr)	99		80 - 122
Trifluorotoluene (Surr)	103		80 - 120

Lab Sample ID: LCSD 580-260864/14

Matrix: Water

Analysis Batch: 260864

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
1,2-Dibromoethane	10.0	9.29		ug/L		93	79 - 120	1	26
1,2-DCA	10.0	9.13		ug/L		91	76 - 131	4	11
Benzene	10.0	8.97		ug/L		90	75 - 120	4	14
DIPE	12.5	11.3		ug/L		90	71 - 124	4	11
Ethyl-t-butyl ether (ETBE)	12.5	11.5		ug/L		92	79 - 120	3	17
Ethylbenzene	10.0	9.37		ug/L		94	75 - 120	3	14
MTBE	10.0	8.99		ug/L		90	79 - 120	2	18
m-Xylene & p-Xylene	10.0	8.84		ug/L		88	75 - 120	5	14
Naphthalene	10.0	4.91	*	ug/L		49	71 - 126	73	16
o-Xylene	10.0	9.13		ug/L		91	74 - 120	4	16
t-Butyl alcohol	100	73.8	J	ug/L		74	26 - 150	3	35
Tert-amyl methyl ether	12.5	11.6		ug/L		93	75 - 125	4	16
Toluene	10.0	9.78		ug/L		98	75 - 120	3	13
Xylenes, Total	20.0	18.0		ug/L		90	74 - 120	5	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		80 - 126
4-Bromofluorobenzene (Surr)	99		75 - 125
Dibromofluoromethane (Surr)	99		77 - 120
Toluene-d8 (Surr)	105		80 - 122

TestAmerica Seattle

QC Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-260864/14

Matrix: Water

Analysis Batch: 260864

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Trifluorotoluene (Surr)	105		80 - 120

Lab Sample ID: MB 580-260932/5

Matrix: Water

Analysis Batch: 260932

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.0		ug/L			11/08/17 02:01	1
1,2-DCA	ND		2.0		ug/L			11/08/17 02:01	1
Benzene	ND		2.0		ug/L			11/08/17 02:01	1
DIPE	ND		2.0		ug/L			11/08/17 02:01	1
Ethyl-t-butyl ether (ETBE)	ND		6.0		ug/L			11/08/17 02:01	1
Ethylbenzene	ND		3.0		ug/L			11/08/17 02:01	1
MTBE	ND		2.0		ug/L			11/08/17 02:01	1
Naphthalene	ND		4.0		ug/L			11/08/17 02:01	1
t-Butyl alcohol	ND		100		ug/L			11/08/17 02:01	1
Tert-amyl methyl ether	ND		6.0		ug/L			11/08/17 02:01	1
Toluene	ND		2.0		ug/L			11/08/17 02:01	1
Xylenes, Total	ND		3.0		ug/L			11/08/17 02:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 126		11/08/17 02:01	1
4-Bromofluorobenzene (Surr)	99		75 - 125		11/08/17 02:01	1
Dibromofluoromethane (Surr)	100		77 - 120		11/08/17 02:01	1
Toluene-d8 (Surr)	99		80 - 122		11/08/17 02:01	1
Trifluorotoluene (Surr)	100		80 - 120		11/08/17 02:01	1

Lab Sample ID: LCS 580-260932/6

Matrix: Water

Analysis Batch: 260932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
1,2-Dibromoethane	10.0	9.39		ug/L		94	79 - 120	
1,2-DCA	10.0	9.28		ug/L		93	76 - 131	
Benzene	10.0	10.0		ug/L		100	75 - 120	
DIPE	12.5	12.3		ug/L		98	71 - 124	
Ethyl-t-butyl ether (ETBE)	12.5	12.0		ug/L		96	79 - 120	
Ethylbenzene	10.0	9.90		ug/L		99	75 - 120	
MTBE	10.0	9.59		ug/L		96	79 - 120	
m-Xylene & p-Xylene	10.0	9.85		ug/L		99	75 - 120	
Naphthalene	10.0	5.67 *		ug/L		57	71 - 126	
o-Xylene	10.0	10.1		ug/L		101	74 - 120	
t-Butyl alcohol	100	103		ug/L		103	26 - 150	
Tert-amyl methyl ether	12.5	12.7		ug/L		102	75 - 125	
Toluene	10.0	9.44		ug/L		94	75 - 120	
Xylenes, Total	20.0	20.0		ug/L		100	74 - 120	

TestAmerica Seattle

QC Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-260932/6

Matrix: Water

Analysis Batch: 260932

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		80 - 126
4-Bromofluorobenzene (Surr)	99		75 - 125
Dibromofluoromethane (Surr)	99		77 - 120
Toluene-d8 (Surr)	98		80 - 122
Trifluorotoluene (Surr)	99		80 - 120

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Lab Sample ID: LCSD 580-260932/7

Matrix: Water

Analysis Batch: 260932

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	Limit
1,2-Dibromoethane	10.0	9.58		ug/L	96	79 - 120	2	26
1,2-DCA	10.0	9.44		ug/L	94	76 - 131	2	11
Benzene	10.0	10.7		ug/L	107	75 - 120	6	14
DIPE	12.5	13.0		ug/L	104	71 - 124	6	11
Ethyl-t-butyl ether (ETBE)	12.5	12.3		ug/L	98	79 - 120	2	17
Ethylbenzene	10.0	10.4		ug/L	104	75 - 120	5	14
MTBE	10.0	9.88		ug/L	99	79 - 120	3	18
m-Xylene & p-Xylene	10.0	10.2		ug/L	102	75 - 120	4	14
Naphthalene	10.0	7.29 *		ug/L	73	71 - 126	25	16
o-Xylene	10.0	10.3		ug/L	103	74 - 120	3	16
t-Butyl alcohol	100	98.8 J		ug/L	99	26 - 150	4	35
Tert-amyl methyl ether	12.5	13.0		ug/L	104	75 - 125	2	16
Toluene	10.0	10.0		ug/L	100	75 - 120	6	13
Xylenes, Total	20.0	20.5		ug/L	103	74 - 120	3	15

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		80 - 126
4-Bromofluorobenzene (Surr)	98		75 - 125
Dibromofluoromethane (Surr)	98		77 - 120
Toluene-d8 (Surr)	99		80 - 122
Trifluorotoluene (Surr)	99		80 - 120

Lab Sample ID: MB 580-261118/5

Matrix: Water

Analysis Batch: 261118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.0		ug/L			11/10/17 10:37	1
Surrogate	MB %Recovery	MB Qualifier					Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		80 - 126					11/10/17 10:37	1
4-Bromofluorobenzene (Surr)	96		75 - 125					11/10/17 10:37	1
Dibromofluoromethane (Surr)	75 X		77 - 120					11/10/17 10:37	1
Toluene-d8 (Surr)	112		80 - 122					11/10/17 10:37	1
Trifluorotoluene (Surr)	90		80 - 120					11/10/17 10:37	1

Client Sample ID: Method Blank
Prep Type: Total/NA

QC Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-261118/6

Matrix: Water

Analysis Batch: 261118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Naphthalene	10.0	11.4		ug/L		114	71 - 126
Surrogate	%Recovery	LCS	LCS	ug/L			Limits
1,2-Dichloroethane-d4 (Surr)	103		80 - 126				
4-Bromofluorobenzene (Surr)	96		75 - 125				
Dibromofluoromethane (Surr)	101		77 - 120				
Toluene-d8 (Surr)	112		80 - 122				
Trifluorotoluene (Surr)	91		80 - 120				

Lab Sample ID: LCSD 580-261118/7

Matrix: Water

Analysis Batch: 261118

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Naphthalene	10.0	12.2		ug/L		122	71 - 126	
Surrogate	%Recovery	LCSD	LCSD	ug/L			Limits	RPD
1,2-Dichloroethane-d4 (Surr)	104		80 - 126					
4-Bromofluorobenzene (Surr)	95		75 - 125					
Dibromofluoromethane (Surr)	100		77 - 120					
Toluene-d8 (Surr)	110		80 - 122					
Trifluorotoluene (Surr)	92		80 - 120					

Lab Sample ID: MB 580-261210/5

Matrix: Water

Analysis Batch: 261210

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.0		ug/L			11/13/17 16:38	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 126					11/13/17 16:38	1
4-Bromofluorobenzene (Surr)	112		75 - 125					11/13/17 16:38	1
Dibromofluoromethane (Surr)	108		77 - 120					11/13/17 16:38	1
Toluene-d8 (Surr)	109		80 - 122					11/13/17 16:38	1
Trifluorotoluene (Surr)	94		80 - 120					11/13/17 16:38	1

Lab Sample ID: LCS 580-261210/6

Matrix: Water

Analysis Batch: 261210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Naphthalene	10.0	11.9		ug/L		119	71 - 126
Surrogate	%Recovery	LCS Qualifier	Limits				Limits
1,2-Dichloroethane-d4 (Surr)	90		80 - 126				
4-Bromofluorobenzene (Surr)	109		75 - 125				

TestAmerica Seattle

QC Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-261210/6

Matrix: Water

Analysis Batch: 261210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	102				77 - 120
Toluene-d8 (Surr)	110				80 - 122
Trifluorotoluene (Surr)	96				80 - 120

Lab Sample ID: LCSD 580-261210/7

Matrix: Water

Analysis Batch: 261210

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD
				ug/L		Limits	Limit
Naphthalene	10.0	11.7			117	71 - 126	2

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92				80 - 126
4-Bromofluorobenzene (Surr)	118				75 - 125
Dibromofluoromethane (Surr)	110				77 - 120
Toluene-d8 (Surr)	116				80 - 122
Trifluorotoluene (Surr)	98				80 - 120

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Lab Sample ID: MB 490-472571/14

Matrix: Water

Analysis Batch: 472571

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		10		mg/L			11/01/17 16:49	1
Methanol	ND		10		mg/L			11/01/17 16:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
Isopropyl acetate (Surr)	100		52 - 128					11/01/17 16:49	1

Lab Sample ID: LCS 490-472571/15

Matrix: Water

Analysis Batch: 472571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	
				ug/L		Limits	
Ethanol	50.2	49.0			98	70 - 130	
Methanol	50.2	48.8			97	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits		D	%Rec.	
Isopropyl acetate (Surr)	86		52 - 128				

TestAmerica Seattle

QC Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection) (Continued)

Lab Sample ID: 580-72468-1 MS

Matrix: Water

Analysis Batch: 472571

Client Sample ID: C-MW-02-10/17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethanol	ND		50.2	50.7		mg/L		101	65 - 130
Methanol	ND		50.2	51.1		mg/L		102	64 - 138
Surrogate									
<i>Isopropyl acetate (Surr)</i>									
MS Recovery Qualifier Limits									
93 52 - 128									

Lab Sample ID: 580-72468-1 MSD

Matrix: Water

Analysis Batch: 472571

Client Sample ID: C-MW-02-10/17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethanol	ND		50.2	50.4		mg/L		100	65 - 130	1	11
Methanol	ND		50.2	50.0		mg/L		100	64 - 138	2	21
Surrogate											
<i>Isopropyl acetate (Surr)</i>											
MSD Recovery Qualifier Limits											
102 52 - 128											

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-260299/6

Matrix: Water

Analysis Batch: 260299

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.25		mg/L			10/31/17 12:22	1
Surrogate									
<i>4-Bromofluorobenzene (Surr)</i>									
MB Recovery Qualifier Limits									
90 58 - 133									
<i>Trifluorotoluene (Surr)</i>									
104 77 - 128									
Prepared									
10/31/17 12:22									
Analyzed									
10/31/17 12:22									
Dil Fac									
1									

Lab Sample ID: LCS 580-260299/7

Matrix: Water

Analysis Batch: 260299

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline		1.00	0.885		mg/L		88	79 - 110
Surrogate								
<i>4-Bromofluorobenzene (Surr)</i>								
LCS Recovery Qualifier Limits								
98 58 - 133								
<i>Trifluorotoluene (Surr)</i>								
103 77 - 128								

Lab Sample ID: LCSD 580-260299/8

Matrix: Water

Analysis Batch: 260299

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline		1.00	0.882		mg/L		88	79 - 110	0	10

TestAmerica Seattle

QC Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		58 - 133
Trifluorotoluene (Surr)	102		77 - 128

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 490-472501/5

Matrix: Water

Analysis Batch: 472501

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		0.0050		mg/L			11/01/17 10:54	1
<hr/>									
Surrogate									
Acetylene (Surr)									

QC Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 490-472824/6

Matrix: Water

Analysis Batch: 472824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
Acetylene (Surrogate)	87		62 - 124

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-260630/1-A

Matrix: Water

Analysis Batch: 260733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260630

Analyte	MB	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
#2 Diesel (C10-C24)	ND			0.10		mg/L		11/03/17 09:12	11/06/17 15:47	1
Motor Oil (>C24-C36)	ND			0.25		mg/L		11/03/17 09:12	11/06/17 15:47	1
Surrogate	MB	MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier								
<i>o</i> -Terphenyl	79			50 - 150				11/03/17 09:12	11/06/17 15:47	1

Lab Sample ID: LCS 580-260630/2-A

Matrix: Water

Analysis Batch: 260733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260630
%Rec.

Analyte		Spike	LCS	LCS		D	%Rec	Limits	
		Added	Result	Qualifier	Unit				
#2 Diesel (C10-C24)		2.00	1.47		mg/L		74	59 - 112	
Motor Oil (>C24-C36)		2.00	1.63		mg/L		82	64 - 120	
Surrogate	LCS	LCS		Limits					
	%Recovery	Qualifier							
<i>o</i> -Terphenyl	86			50 - 150					

Lab Sample ID: LCSD 580-260630/3-A

Matrix: Water

Analysis Batch: 260733

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260630
%Rec.

Analyte		Spike	LCSD	LCSD		D	%Rec	Limits	RPD	Limit
		Added	Result	Qualifier	Unit					
#2 Diesel (C10-C24)		2.00	1.51		mg/L		75	59 - 112	3	16
Motor Oil (>C24-C36)		2.00	1.71		mg/L		86	64 - 120	5	17
Surrogate	LCSD	LCSD		Limits						
	%Recovery	Qualifier								
<i>o</i> -Terphenyl	90			50 - 150						

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LCS 580-260392/13-A

Matrix: Water

Analysis Batch: 260476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260392
%Rec.

Analyte		Spike	LCS	LCS		D	%Rec	Limits	
		Added	Result	Qualifier	Unit				
Manganese		0.100	0.0962		mg/L		96	85 - 115	

TestAmerica Seattle

QC Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-260392/14-A

Matrix: Water

Analysis Batch: 260476

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 260392

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD
Manganese	0.100	0.0986		mg/L	99	85 - 115	2 / 20

Lab Sample ID: MB 580-260257/4-B

Matrix: Water

Analysis Batch: 260476

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 260392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.020		mg/L		10/31/17 17:34	11/01/17 07:50	1

Lab Sample ID: 580-72468-1 MS

Matrix: Water

Analysis Batch: 260476

Client Sample ID: C-MW-02-10/17

Prep Type: Dissolved

Prep Batch: 260392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Manganese	ND		0.100	0.102		mg/L		94	70 - 130

Lab Sample ID: 580-72468-1 MSD

Matrix: Water

Analysis Batch: 260476

Client Sample ID: C-MW-02-10/17

Prep Type: Dissolved

Prep Batch: 260392

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD
Manganese	ND		0.100	0.0980		mg/L		90	70 - 130

Lab Sample ID: 580-72468-1 DU

Matrix: Water

Analysis Batch: 260476

Client Sample ID: C-MW-02-10/17

Prep Type: Dissolved

Prep Batch: 260392

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD
Manganese	ND		ND		mg/L		NC / 20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-260646/3

Matrix: Water

Analysis Batch: 260646

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.2		mg/L		10/31/17 12:49		1

Lab Sample ID: LCS 580-260646/4

Matrix: Water

Analysis Batch: 260646

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.
Sulfate	50.0	51.4		mg/L	103	90 - 110

TestAmerica Seattle

QC Sample Results

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-72468-1 MS

Matrix: Water

Analysis Batch: 260646

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Sulfate	110	F1	50.0	152	F1	mg/L	78	90 - 110	—

Lab Sample ID: 580-72468-1 MSD

Matrix: Water

Analysis Batch: 260646

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Sulfate	110	F1	50.0	156	F1	mg/L	85	90 - 110	—	2	15

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-260719/2

Matrix: Water

Analysis Batch: 260719

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Alkalinity	—	100	99.9	mg/L	100	100	85 - 115

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

TestAmerica Seattle

Lab Chronicle

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-02-10/17

Date Collected: 10/24/17 12:10

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260840	11/07/17 02:29	IWH	TAL SEA
Total/NA	Analysis	8260C	RA	1	261118	11/10/17 13:57	IWH	TAL SEA
Total/NA	Analysis	8015C		1	472571	11/01/17 17:01	MH	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	260299	10/31/17 15:01	TL1	TAL SEA
Total/NA	Analysis	RSK-175		1	472824	11/02/17 12:59	AAB	TAL NSH
Total/NA	Prep	3510C			260630	11/03/17 09:12	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	260733	11/06/17 18:20	JCP	TAL SEA
Dissolved	Filtration	FILTRATION			260257	10/30/17 13:35	ASJ	TAL SEA
Dissolved	Prep	200.7			260392	10/31/17 17:34	PAB	TAL SEA
Dissolved	Analysis	200.7 Rev 4.4		1	260476	11/01/17 08:00	SPP	TAL SEA
Total/NA	Analysis	300.0		5	260646	10/31/17 18:33	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260719	11/04/17 17:47	EMM	TAL SEA

Client Sample ID: C-MW-03-10/17

Date Collected: 10/25/17 10:30

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260864	11/07/17 16:24	IWH	TAL SEA
Total/NA	Analysis	8260C	RA	1	260932	11/08/17 10:49	IWH	TAL SEA
Total/NA	Analysis	8015C		1	472571	11/01/17 17:19	MH	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	260299	10/31/17 15:33	TL1	TAL SEA
Total/NA	Prep	3510C			260630	11/03/17 09:12	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	260733	11/06/17 18:42	JCP	TAL SEA

Client Sample ID: C-MW-06-10/17

Date Collected: 10/23/17 10:35

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260840	11/06/17 22:20	IWH	TAL SEA
Total/NA	Analysis	8260C	RA	1	261118	11/10/17 14:22	IWH	TAL SEA
Total/NA	Analysis	8015C		1	472571	11/01/17 17:25	MH	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	260299	10/31/17 16:05	TL1	TAL SEA
Total/NA	Analysis	RSK-175		1	472501	11/01/17 12:33	AAB	TAL NSH
Total/NA	Prep	3510C			260630	11/03/17 09:12	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	260733	11/06/17 19:04	JCP	TAL SEA
Dissolved	Filtration	FILTRATION			260257	10/30/17 13:35	ASJ	TAL SEA
Dissolved	Prep	200.7			260392	10/31/17 17:34	PAB	TAL SEA
Dissolved	Analysis	200.7 Rev 4.4		1	260476	11/01/17 08:30	SPP	TAL SEA
Total/NA	Analysis	300.0		1	260646	10/31/17 13:59	MMM	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Client Sample ID: C-MW-06-10/17

Date Collected: 10/23/17 10:35
Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	260719	11/04/17 17:48	EMM	TAL SEA

Client Sample ID: C-MW-07-10/17

Date Collected: 10/24/17 15:03
Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260864	11/07/17 16:49	IWH	TAL SEA
Total/NA	Analysis	8260C	RA	1	261118	11/10/17 14:48	IWH	TAL SEA
Total/NA	Analysis	8015C		1	472571	11/01/17 17:31	MH	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	260299	10/31/17 16:37	TL1	TAL SEA
Total/NA	Prep	3510C			260630	11/03/17 09:12	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	260733	11/06/17 19:48	JCP	TAL SEA

Client Sample ID: C-MW-11-10/17

Date Collected: 10/25/17 08:55
Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260864	11/07/17 17:14	IWH	TAL SEA
Total/NA	Analysis	8260C	RA	1	260932	11/08/17 11:15	IWH	TAL SEA
Total/NA	Analysis	8015C		1	472571	11/01/17 17:37	MH	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	260299	10/31/17 17:09	TL1	TAL SEA
Total/NA	Prep	3510C			260630	11/03/17 09:12	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	260733	11/06/17 20:10	JCP	TAL SEA

Client Sample ID: C-MW-12-10/17

Date Collected: 10/24/17 16:30
Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260864	11/07/17 17:39	IWH	TAL SEA
Total/NA	Analysis	8260C	RA	1	261118	11/10/17 15:13	IWH	TAL SEA
Total/NA	Analysis	8015C		1	472571	11/01/17 17:43	MH	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	260299	10/31/17 18:13	TL1	TAL SEA
Total/NA	Analysis	RSK-175		1	472824	11/02/17 13:06	AAB	TAL NSH
Total/NA	Prep	3510C			260630	11/03/17 09:12	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	260733	11/06/17 20:32	JCP	TAL SEA
Dissolved	Filtration	FILTRATION			260257	10/30/17 13:35	ASJ	TAL SEA
Dissolved	Prep	200.7			260392	10/31/17 17:34	PAB	TAL SEA
Dissolved	Analysis	200.7 Rev 4.4		1	260476	11/01/17 08:33	SPP	TAL SEA
Total/NA	Analysis	300.0		5	260646	10/31/17 18:45	MMM	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	260719	11/04/17 17:48	EMM	TAL SEA

Client Sample ID: C-MW-12D-10/17

Date Collected: 10/24/17 16:30

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260864	11/07/17 18:04	IWH	TAL SEA
Total/NA	Analysis	8260C	RA	1	261210	11/13/17 17:54	T1W	TAL SEA
Total/NA	Analysis	8015C		1	472571	11/01/17 17:49	MH	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	260299	10/31/17 18:45	TL1	TAL SEA
Total/NA	Prep	3510C			260630	11/03/17 09:12	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	260733	11/06/17 20:53	JCP	TAL SEA

Client Sample ID: C-MW-14-10/17

Date Collected: 10/24/17 14:05

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260864	11/07/17 18:30	IWH	TAL SEA
Total/NA	Analysis	8260C	RA	1	261118	11/10/17 15:38	IWH	TAL SEA
Total/NA	Analysis	8015C		1	472571	11/01/17 17:55	MH	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	260299	10/31/17 19:17	TL1	TAL SEA
Total/NA	Prep	3510C			260630	11/03/17 09:12	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	260733	11/06/17 21:15	JCP	TAL SEA

Client Sample ID: C-EB-10/17

Date Collected: 10/25/17 09:40

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260932	11/08/17 07:53	IWH	TAL SEA
Total/NA	Analysis	8015C		1	472571	11/01/17 18:02	MH	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	260299	10/31/17 19:49	TL1	TAL SEA
Total/NA	Prep	3510C			260630	11/03/17 09:12	APR	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	260733	11/06/17 21:37	JCP	TAL SEA

Client Sample ID: Trip Blank

Date Collected: 10/25/17 06:00

Date Received: 10/27/17 15:43

Lab Sample ID: 580-72468-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260932	11/08/17 03:40	IWH	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	260299	10/31/17 13:58	TL1	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177
TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Accreditation/Certification Summary

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18
The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:				
Analysis Method	Prep Method	Matrix	Analyte	
8260C		Water	t-Butyl alcohol	
8260C		Water	Xylenes, Total	
SM 2320B		Water	Hydroxide Alkalinity as CaCO ₃	

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(Fl)/453.07(A2L A)	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	12-31-17
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-18
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-18
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-18

TestAmerica Seattle

Accreditation/Certification Summary

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Laboratory: TestAmerica Nashville (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-17

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TestAmerica Seattle

Sample Summary

Client: CEECON Testing, Inc.
Project/Site: Tesoro Pasco

TestAmerica Job ID: 580-72468-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-72468-1	C-MW-02-10/17	Water	10/24/17 12:10	10/27/17 15:43
580-72468-2	C-MW-03-10/17	Water	10/25/17 10:30	10/27/17 15:43
580-72468-3	C-MW-06-10/17	Water	10/23/17 10:35	10/27/17 15:43
580-72468-4	C-MW-07-10/17	Water	10/24/17 15:03	10/27/17 15:43
580-72468-5	C-MW-11-10/17	Water	10/25/17 08:55	10/27/17 15:43
580-72468-6	C-MW-12-10/17	Water	10/24/17 16:30	10/27/17 15:43
580-72468-7	C-MW-12D-10/17	Water	10/24/17 16:30	10/27/17 15:43
580-72468-8	C-MW-14-10/17	Water	10/24/17 14:05	10/27/17 15:43
580-72468-9	C-EB-10/17	Water	10/25/17 09:40	10/27/17 15:43
580-72468-10	Trip Blank	Water	10/25/17 06:00	10/27/17 15:43

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TestAmerica Seattle

TestAmerica Seattle

5755 8th Street East

Tacoma, WA 98424

Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record



580-72468 Chain of Custody

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: <i>R. Cruz</i>	Lab PM: <i>Cruz, Sheri L.</i>														
Client Contact: Michael Hodges		Phone: <i>4151359-6453</i>	E-Mail: <i>sheri.cruz@testamericainc.com</i>														
Company: CEECON Testing, Inc.		Analysis Requested															
Address: 434 North Canal Street Suite Six		Due Date Requested:															
City: South San Francisco		TAT Requested (days):															
State, Zip: CA, 94080																	
Phone: 253-896-8708(Tel)		PO #:															
Email: ceeccon@msn.com		WO #:															
Project Name: Tesoro Pasco		Project #: 58010386															
Site: Washington		SSOW#:															
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab) BT=Issue, A=Air)	Matrix (W=water, S=solid, D=waste/oil, I=tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MNSB (Yes or No)	NWTPH-DX	8015C - DAI - Ethanol, Methanol 8260C - (BTEX), MTBE, DIPE, ETBE, TAME, TBA, 1,2-DCA, 1,2-EDB, Naphthal	NWTPH_Gx	300.0 Sulfate 2007 CWA - Diss Manganese/Lab Filter	RSK-175-Methane 2320B, Alkalinity	Total Number of containers	Special Instructions/Note: <i>A2 Cor 04 Unc 0.3</i>			
		X	X	A	A	X	X	X	X	N	A	N					
C-MW-02-10/17		<i>10/24/17</i>	<i>12:10</i>		Water	X	X	X	X	X	X						
C-MW-03-10/17		<i>10/25/17</i>	<i>10:30</i>		Water	X	X	X	X								
C-MW-06-10/17		<i>10/23/17</i>	<i>10:35</i>		Water	X	X	X	X	X	X	X					
C-MW-07-10/17		<i>10/24/17</i>	<i>3:03</i>		Water	X	X	X	X								
C-MW-11-10/17		<i>10/25/17</i>	<i>8:55</i>		Water	X	X	X	X								
C-MW-12-10/17		<i>10/24/17</i>	<i>4:30</i>		Water	X	X	X	X	X	X	X					
C-MW-12D-10/17		<i>10/24/17</i>	<i>4:30</i>		Water	X	X	X	X								
C-MW-14-10/17		<i>10/24/17</i>	<i>3:05</i>		Water	X	X	X	X								
C-EB-10/17		<i>10/25/17</i>	<i>9:46</i>		Water	X	X	X	X								
Trip Blank		<i>10/25/17</i>	<i>6:00</i>		Water			X	X								
Possible Hazard Identification																	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological																	
Deliverable Requested: I, II, III, IV, Other (specify)																	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:											
<i>Michael Hodges</i>		<i>10/27/17 3:43 p.m.</i>															
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:							
						<i>Tony Blunt</i>		<i>10/27/17 1543</i>									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:							
Custody Seals Intact:		Custody Seal No.: <i>7A-562</i>															
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:															
11/17/2017																	



COOLER RECEIPT FORM

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3586 (last 4 digits, FedEx) Courier: FedEx _____IR Gun ID 31470366 pH Strip Lot _____ Chlorine Strip Lot _____2. Temperature of rep. sample or temp blank when opened: 8.9 Degrees Celsius3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA4. Were custody seals on outside of cooler? (front) YES NO NA

If yes, how many and where: _____

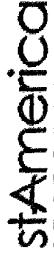
5. Were the seals intact, signed, and dated correctly? YES NO NA6. Were custody papers inside cooler? YES NO NAI certify that I opened the cooler and answered questions 1-6 (initial) es7. Were custody seals on containers: YES NO and Intact YES...NO...NAWere these signed and dated correctly? YES NO NA8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None10. Did all containers arrive in good condition (unbroken)? YES NO NA11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA12. Did all container labels and tags agree with custody papers? YES NO NA13a. Were VOA vials received? YES NO NAb. Was there any observable headspace present in any VOA vial? YES NO NA14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence # _____I certify that I unloaded the cooler and answered questions 7-14 (initial) es15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NAb. Did the bottle labels indicate that the correct preservatives were used YES NO NA16. Was residual chlorine present? YES NO NAI certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) es17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA18. Did you sign the custody papers in the appropriate place? YES NO NA19. Were correct containers used for the analysis requested? YES NO NA20. Was sufficient amount of sample sent in each container? YES NO NAI certify that I entered this project into LIMS and answered questions 17-20 (initial) esI certify that I attached a label with the unique LIMS number to each container (initial) es21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO # es

TestAmerica Seattle

5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

580-72468



AOE R IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:	Lab PM:																																																		
Client Contact:	Phone:	Cruz, Sheri L	E-Mail:																																																		
Shipping/Receiving Company:																																																					
TestAmerica Laboratories, Inc																																																					
Address:																																																					
2860 Foster Creighton Drive, City: Nashville	Phone: 615-726-0177(Tel) 615-726-3404(Fax)	Due Date Requested: 11/9/2017	TAT Requested (days):																																																		
State, Zip: TN 37204	PO #:																																																				
Phone: Email:	WO #:																																																				
Project Name: Tesoro Pasco	Project #: 58010386																																																				
Site: Tesoro - Pasco/Burbank	SSC#:																																																				
Sample Identification - Client ID (Lab ID) <table border="1"> <thead> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab, B=trace, A=at)</th> <th>Matrix (Wastewater, Sludge, Solid, Waste Oil, Other)</th> <th>Preservation Code:</th> </tr> </thead> <tbody> <tr><td>C-MW-02-10/17 (580-72468-1)</td><td>10/24/17</td><td>12:10</td><td>Pacific</td><td>Water X X</td></tr> <tr><td>C-MW-03-10/17 (580-72468-2)</td><td>10/25/17</td><td>10:30</td><td>Pacific</td><td>Water X X</td></tr> <tr><td>C-MW-06-10/17 (580-72468-3)</td><td>10/23/17</td><td>10:35</td><td>Pacific</td><td>Water X X</td></tr> <tr><td>C-MW-07-10/17 (580-72468-4)</td><td>10/24/17</td><td>15:03</td><td>Pacific</td><td>Water X X</td></tr> <tr><td>C-MW-11-10/17 (580-72468-5)</td><td>10/25/17</td><td>08:55</td><td>Pacific</td><td>Water X X</td></tr> <tr><td>C-MW-12-10/17 (580-72468-6)</td><td>10/24/17</td><td>16:30</td><td>Pacific</td><td>Water X X</td></tr> <tr><td>C-MW-12D-10/17 (580-72468-7)</td><td>10/24/17</td><td>16:30</td><td>Pacific</td><td>Water X X</td></tr> <tr><td>C-MW-14-10/17 (580-72468-8)</td><td>10/24/17</td><td>14:05</td><td>Pacific</td><td>Water X X</td></tr> <tr><td>C-EB-10/17 (580-72468-9)</td><td>10/25/17</td><td>08:40</td><td>Pacific</td><td>Water X X</td></tr> </tbody> </table>				Sample Date	Sample Time	Sample Type (C=comp, G=grab, B=trace, A=at)	Matrix (Wastewater, Sludge, Solid, Waste Oil, Other)	Preservation Code:	C-MW-02-10/17 (580-72468-1)	10/24/17	12:10	Pacific	Water X X	C-MW-03-10/17 (580-72468-2)	10/25/17	10:30	Pacific	Water X X	C-MW-06-10/17 (580-72468-3)	10/23/17	10:35	Pacific	Water X X	C-MW-07-10/17 (580-72468-4)	10/24/17	15:03	Pacific	Water X X	C-MW-11-10/17 (580-72468-5)	10/25/17	08:55	Pacific	Water X X	C-MW-12-10/17 (580-72468-6)	10/24/17	16:30	Pacific	Water X X	C-MW-12D-10/17 (580-72468-7)	10/24/17	16:30	Pacific	Water X X	C-MW-14-10/17 (580-72468-8)	10/24/17	14:05	Pacific	Water X X	C-EB-10/17 (580-72468-9)	10/25/17	08:40	Pacific	Water X X
Sample Date	Sample Time	Sample Type (C=comp, G=grab, B=trace, A=at)	Matrix (Wastewater, Sludge, Solid, Waste Oil, Other)	Preservation Code:																																																	
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C-MW-03-10/17 (580-72468-2)	10/25/17	10:30	Pacific	Water X X																																																	
C-MW-06-10/17 (580-72468-3)	10/23/17	10:35	Pacific	Water X X																																																	
C-MW-07-10/17 (580-72468-4)	10/24/17	15:03	Pacific	Water X X																																																	
C-MW-11-10/17 (580-72468-5)	10/25/17	08:55	Pacific	Water X X																																																	
C-MW-12-10/17 (580-72468-6)	10/24/17	16:30	Pacific	Water X X																																																	
C-MW-12D-10/17 (580-72468-7)	10/24/17	16:30	Pacific	Water X X																																																	
C-MW-14-10/17 (580-72468-8)	10/24/17	14:05	Pacific	Water X X																																																	
C-EB-10/17 (580-72468-9)	10/25/17	08:40	Pacific	Water X X																																																	
Analysis Requested																																																					
<input checked="" type="checkbox"/> Total Number of Contaminants																																																					
M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2S2O3 R - Na2S2O4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - Ascorbic Acid W - Di Water K - EDTA L - EDA Z - other (specify) Other:																																																					
Field Filled Sample (Yes or No)																																																					
RSK-175/Methane 8015C-DAl/(MxD) Alcohols																																																					
Special Instructions/Note:																																																					
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analysis & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/smatrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other institutions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.																																																					
Possible Hazard Identification																																																					
Unconfirmed Deliverable Requested: I, II, III, IV, Other (Specify)																																																					
Primary Deliverable Rank: 2																																																					
Sample Disposal / A fee may be assessed if samples are retained longer than 1 month)																																																					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months																																																					
Special Instructions/QC Requirements:																																																					
Empty Kit Relinquished By:	Date/Time:	Time:	Method of Shipment:																																																		
Relinquished by:	Tom Cruz	10/30/17	TA-Sea																																																		
Relinquished by:	Date/Time:	Received by:	Date/Time:																																																		
Relinquished by:	Date/Time:	Received by:	Date/Time:																																																		
Custody Seals Intact	Custody Seal No.:	Colder Temperature(s) °C and Other Remarks:																																																			
△ Yes	△ No	0, 9																																																			

Page: 1 of 1

Job #: 580-72468-1

Page: 1 of 1

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: CEECON Testing, Inc.

Job Number: 580-72468-1

Login Number: 72468

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom X

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CEECON Testing, Inc.

Job Number: 580-72468-1

Login Number: 72468

List Number: 2

Creator: Stewart, Eric S

List Source: TestAmerica Nashville

List Creation: 10/31/17 02:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	