



Transmittal

June 24, 2020

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Washington State Department of Ecology
300 Desmond Drive SE
Lacey, Washington 98503

Ref. No.: 11145925

From: Matthew Davis

GHD Tel: 253-302-8281

Subject: 2019 Annual Groundwater Monitoring Report

Issued for: Your information As requested Construction Quotation
 Your approval/comments Returned to you For re-submission

Sent by: Overnight courier Same day courier Other:

Remarks:

P66; Emerald West, LLC, Property Owner

Completed by: Matthew Davis [Please Print] Signed:

Mather Davis

Filing: Correspondence File



2019 Annual Groundwater Monitoring Report

Former Unocal Facility
Phillips 66 Site 0978
1300 West 12th Street
Vancouver, Washington
Facility Site ID: 47231541

Phillips 66 Company





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1. Introduction

GHD Services Inc. (GHD) prepared this report on behalf of Phillips 66 Company (P66). This annual report includes all groundwater monitoring data collected in fourth quarter 2019. Third quarter data was reported in GHD's *Site Investigation Summary Report* issued November 21, 2019.

1.1 Site Information

Site Address	1300 West 12th Street, Vancouver, Washington
Site Use	Used oil collection, treatment, and resale facility
GHD Project Manager	Matthew Davis
Lead Agency	Washington Department of Ecology (Independent Cleanup)

2. Site Activities and Findings

2.1 Current Activities

Groundwater monitoring and sampling was completed by Blaine Tech Services, Inc. (BTS) according to the established monitoring program during 2019. Groundwater monitoring and sampling consisted of measuring depth to water in each well from the surveyed top of casing elevation and collecting a groundwater sample using low-flow sampling procedures. Groundwater samples were placed immediately on ice and shipped under chain of custody to an approved laboratory for analysis of the Site COCs.

GHD prepared a vicinity map (Figure 1) and a groundwater elevation and chemical concentration map (Figure 2). GHD prepared Table 1 summarizing groundwater monitoring data and laboratory analytical results. Field forms and the laboratory analytical reports are included as Appendices A and B, respectively.

2.2 Findings

Quarter/Date	4 th /October 22-23, 2019
Groundwater Flow Direction	South-Southwest
Hydraulic Gradient	0.005 foot/foot
Depth to Water	44.09 to 60.14 feet below top of well casing

Laboratory analytical results indicate no petroleum related concentrations exceeding the MTCA Method A cleanup levels in any of the wells sampled. Well MW-5A had a concentration of tetrachloroethene (PCE) at 6 µg/L, exceeding the MTCA Method A cleanup level of 5 µg/L. No



other wells exceeded the MTCA Method A cleanup level for PCE. Quarterly groundwater monitoring was discontinued following first quarter 2020 pending completion of the second phase of investigation activities.

All of Which is Respectfully Submitted,

GHD

A handwritten signature in blue ink that appears to read "Moshghan Mansoori".

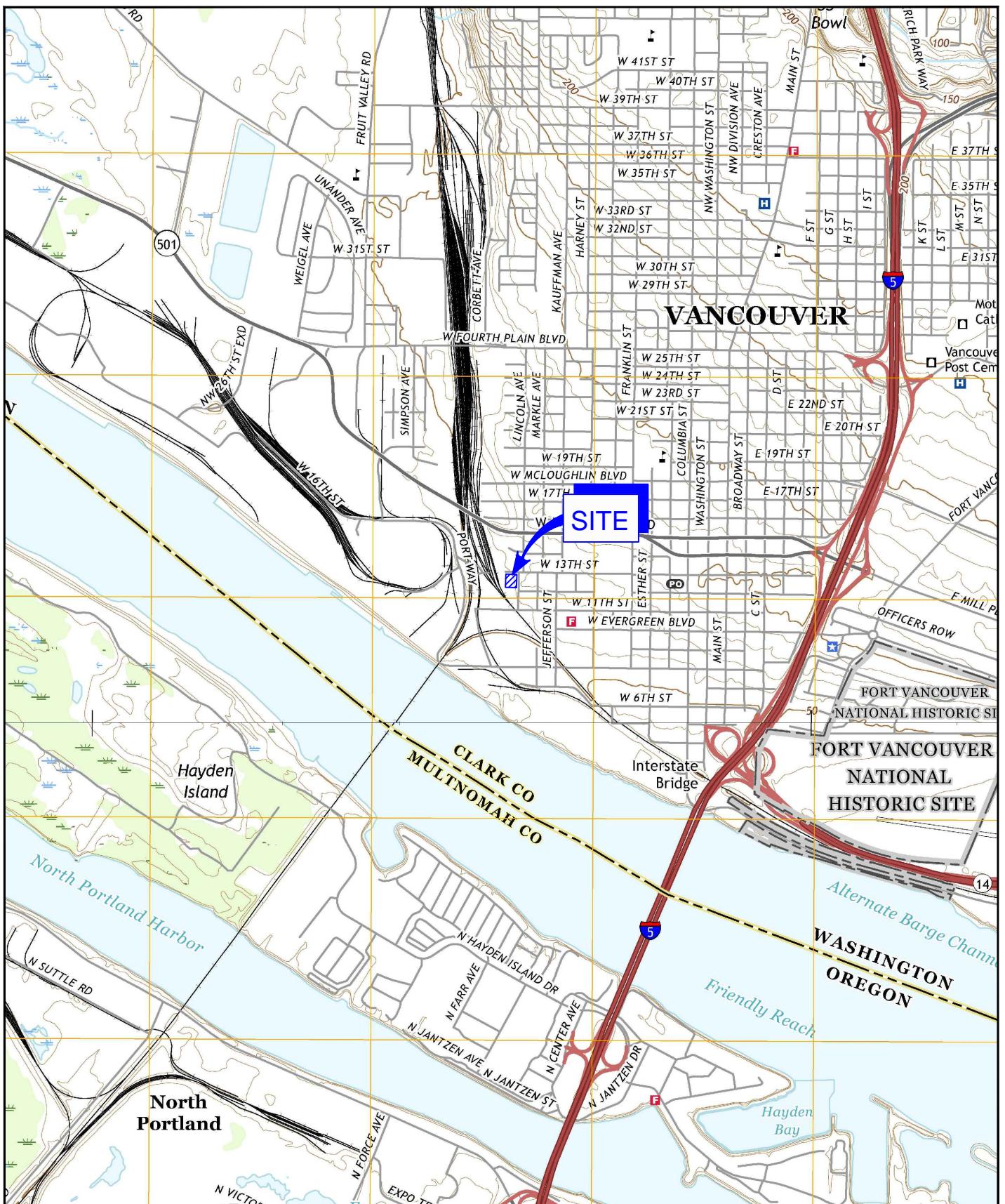
Moshghan Mansoori

A handwritten signature in blue ink that appears to read "Matthew Davis".

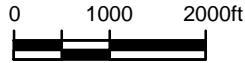
Matthew Davis

Matthew Davis, LG

Figures



Source: USGS QUAD MAPS; VANCOUVER, WA, AND PORTLAND, OR, 2017.



Coordinate System:
WASHINGTON SOUTH
NAD83



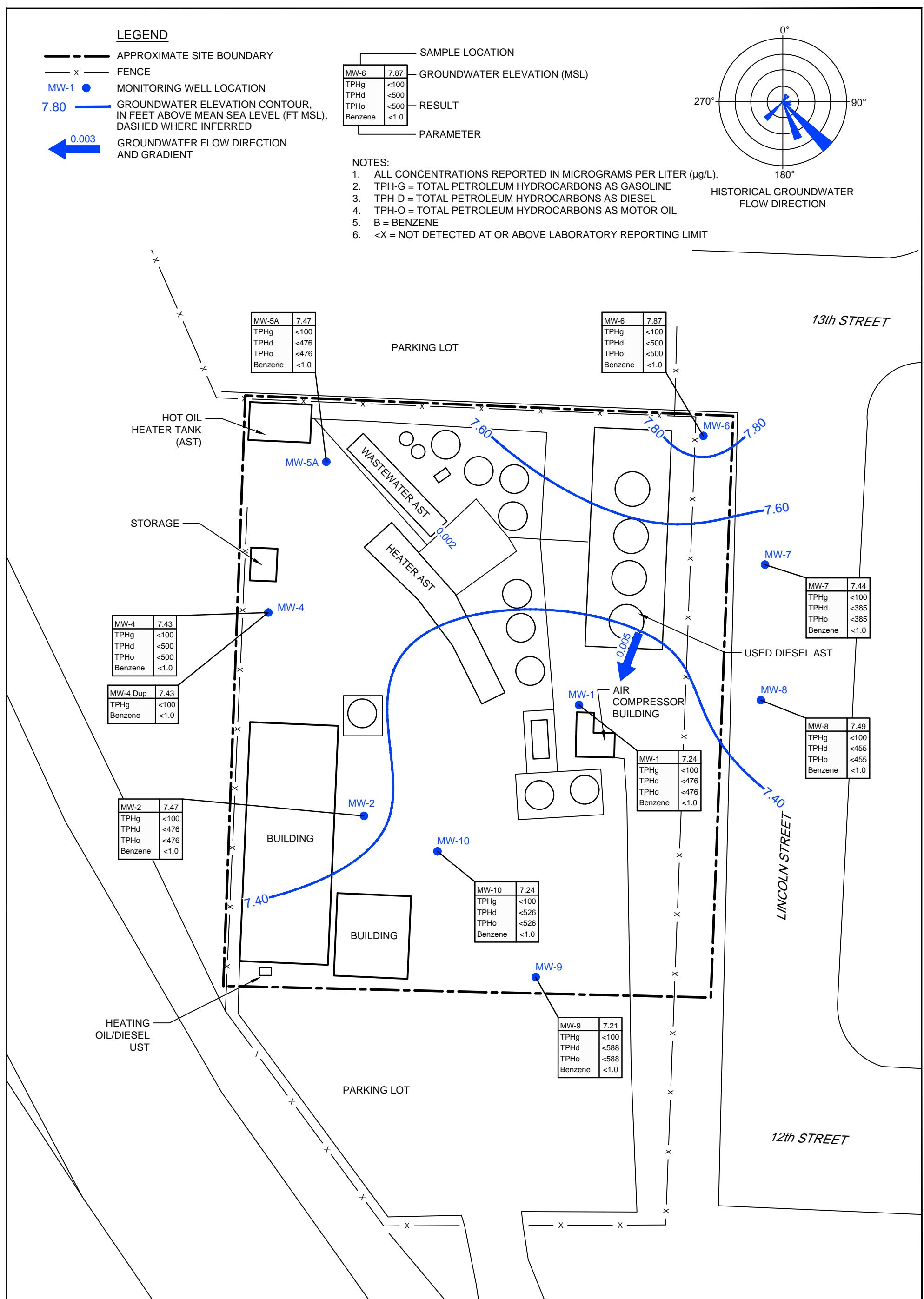
PHILLIPS 66 SITE 0978
1300 WEST 12TH STREET
VANCOUVER, WASHINGTON

VICINITY MAP

11145925-2RM00

Feb 27, 2020

FIGURE 1



Source: STANTEC, JOB 212302391 (0978), SITE PLAN, JUNE 2010.



PHILLIPS 66 SITE 0978
1300 WEST 12TH STREET
VANCOUVER, WASHINGTON

GROUNDWATER CONTOUR AND
CHEMICAL CONCENTRATION MAP - OCTOBER 22-23, 2019

11145925-2RM00

Feb 26, 2020

FIGURE 2

Table

Table 1

Summary of Historical Groundwater Data
Former Unocal Facility
Phillips 66 Site 0978
1300 West 12th Street
Vancouver, Washington

Well ID	Sample Date	TOC	Depth to Water	GW Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloroform	Chloroform	MTBE	1,1,1-TCA	TCE	PCE	cis-1,2-Dichloroethene	Dissolved Lead	Total Lead	Ethanol	Dissolved Oxygen				
		(feet)	(feet)	(feet)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)				
		MTCA Method A Cleanup Levels: 1,000/800 ^a										500	500	5	1,000	700	1,000	NE	5	20	200	5	5	NE	15	15
MW-1	4/24/2000	96.52	37.34	59.18	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-1	8/30/2000	96.52	44.19	52.33	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	1.96	--	--	--	--	--	--	--	--
MW-1	10/4/2000	96.52	44.75	51.77	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	1.98	--	<1.00	--	--	--	--	--	--
MW-1	1/15/2001	96.52	43.41	53.11	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	1.88	--	--	--	--	--	--	--	--
MW-1	4/23/2001	96.52	NA	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	7/25/2001	96.52	46.17	50.35	--	--	--	--	--	--	--	--	--	ND	3.63	ND	ND	1.83	--	<1.00	47.8	--	--	--	--	--
MW-1	10/16/2001	96.52	45.38	51.14	--	--	--	--	--	--	--	--	--	ND	1.67	ND	ND	1.29	--	<8.59	23.1	--	--	--	--	--
MW-1	1/9/2002	96.52	40.90	55.62	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	<1.00	2.52	--	--	--	--	--
MW-1	4/4/2002	96.52	42.96	53.56	--	--	--	--	--	--	--	--	--	ND	5,120	ND	ND	108	--	--	--	--	--	--	--	--
MW-1	7/8/2002	96.52	40.24	56.28	--	--	--	--	--	--	--	--	--	ND	476	ND	ND	28.2	--	--	--	--	--	--	--	--
MW-1	10/30/2002	96.52	45.25	51.27	--	--	--	--	--	--	--	--	--	ND	144	ND	ND	1.46	11.4	--	--	--	--	--	--	--
MW-1	1/17/2003	96.52	43.05	53.47	--	--	--	--	--	--	--	--	--	ND	346	ND	ND	15.1	--	--	--	--	--	--	--	--
MW-1	4/4/2003	96.52	40.23	56.29	--	--	--	--	--	--	--	--	--	ND	85.3	ND	ND	2.93	--	--	--	--	--	--	--	--
MW-1	7/2/2003	96.52	42.58	53.94	--	--	--	--	--	--	--	--	--	ND	574	ND	ND	17.3	--	--	--	--	--	--	--	--
MW-1	1/28/2004	96.52	40.90	55.62	--	--	--	--	--	--	--	--	--	ND	326	ND	ND	ND	--	--	--	--	--	--	--	--
MW-1	4/26/2004	96.52	42.75	53.77	--	--	--	--	--	--	--	--	--	ND	338	ND	0.757	6.31	--	--	--	--	--	--	--	2.03
MW-1	7/23/2004	96.52	44.25	52.27	--	--	--	--	--	--	--	--	--	ND	127	ND	2.06	19.5	--	--	--	--	--	--	--	--
MW-1	11/5/2004	96.52	44.13	52.39	--	--	--	--	--	--	--	--	--	1.01	447	ND	1.3	8.06	--	--	--	--	--	--	--	2.88
MW-1	2/4/2005	96.52	43.68	52.84	--	--	--	--	--	--	--	--	--	<1.0	192	ND	12.6	1.08	--	--	--	--	--	--	--	--
MW-1	5/10/2005	96.52	41.02	55.50	--	--	--	--	--	--	--	--	--	<5.0	197	ND	ND	ND	--	--	--	--	--	--	--	--
MW-1	8/8/2005	96.52	43.72	52.80	--	--	--	--	--	--	--	--	--	<1.0	234	<200	1.33	12.9	--	--	--	--	--	--	--	4.88
MW-1	12/13/2005	96.52	43.67	52.85	--	--	--	--	--	--	--	--	--	<2.0	<0.5	<0.8	<1.0	6.0	--	--	--	--	--	--	--	7.59
MW-1	3/3/2006	96.52	40.78	55.74	--	--	--	--	--	--	--	--	--	<2.0	100	<0.8	<1.0	6.0	--	--	--	--	--	--	--	6.23
MW-1	6/29/2006	96.52	40.30	56.22	--	--	--	--	--	--	--	--	--	<2.0	18	<0.8	<1.0	10	--	--	--	--	--	--	--	6.04
MW-1	9/8/2006	96.52	44.40	52.12	--	--	--	--	--	--	--	--	--	<2.0	58	<0.8	1.0	10	--	--	--	--	--	--	--	6.89
MW-1	12/1/2006	96.52	41.34	55.18	--	--	--	--	--	--	--	--	--	<2.0	19	<0.8	<1.0	4.0	--	--	--	--	--	--	--	5.20
MW-1	3/1/2007	96.52	41.60	54.92	--	--	--	--	--	--	--	--	--	<2.0	14	<0.8	<1.0	7.0	--	--	--	--	--	--	--	7.35
MW-1	6/28/2007	96.52	43.10	53.42	--	--	--	--	--	--	--	--	--	<2	<0.5	<0.8	1	12	--	--	--	--	--	--	--	7.0
MW-1	2/1/2008	96.52	42.25	54.27	--	--	<0.5	<0.7	<0.8	<0.8	<0.8	--	<2	<0.5	<0.8	<1	7	--	--	--	--	--	--	--	--	
MW-1	3/20/2008	96.52	42.07	54.45	--	--	<0.5	<0.7	<0.8	<0.8	<0.8	--	<2	<0.5	<0.8	<1	5	--	--	--	--	--	--	--	--	
MW-1	6/19/2008	96.52	36.39	60.13	--	--	<0.5	<0.7	<0.8	<0.8	<0.8	2	<2	<0.5	<0.8	<1	3	--	--	--	--	--	--	--	--	
MW-1	9/30/2008	96.52	44.92	51.60	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.2	--	--	--	--	
MW-1	11/7/2008	96.52	44.65	51.87	--	--	<0.5	<0.7	<0.8	<0.8	<0.8	<0.8	<2	<0.5	<0.8	<1	8	--	--	--	--	--	--	--	--	
MW-1	2/19/2009	96.52	44.19	52.33	--	--	<0.12	<0.21	<0.20	<0.2																

Table 1

Summary of Historical Groundwater Data
Former Unocal Facility
Phillips 66 Site 0978
1300 West 12th Street
Vancouver, Washington

	Sample	TOC Elevation	Depth to Water	GW Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloroform	Chloroform	MTBE	1,1,1-TCA	TCE	PCE	cis-1,2-Dichloroethene	Dissolved Lead	Total Lead	Ethanol	Dissolved Oxygen
MW-1	12/1/2010	97.10	43.36	53.74	--	<75.5	<377	<1.0	<1.0	<1.0	<3.0	2.0	<4.0	<1.0	<1.0	<1.0	2.4	--	--	--	--	--
MW-1	3/8/2011	97.10	40.53	56.57	--	<75.5	<377	<1.0	<1.0	<1.0	<3.0	1.8	<4.0	<1.0	<1.0	<1.0	2.2	--	--	--	--	--
MW-1	6/16/2011	97.10	31.98	65.12	--	<88.9	<444	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<1.0	1.4	--	--	--	--	--
MW-1	9/26/2011	97.10	45.00	52.10	<50	<30	<69	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	6	--	--	--	<50	--
MW-1	12/19/2011	97.10	45.15	51.95	--	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	4	--	--	--	<50	--
MW-1	3/23/2012	97.10	28.61	68.49	--	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	0.9	--	--	--	<50	--
MW-1	6/18/2012	97.10	38.27	58.83	--	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	2	--	--	--	<50	--
MW-1	8/28/2012	97.10	43.32	53.78	--	30	<66	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	5	--	--	--	<50	--
MW-1	12/17/2012	97.10	39.52	57.58	--	<28	<66	<0.5	<0.5	<0.5	<0.5	1	<2	<0.5	<0.8	<1	1	--	--	--	<50	--
MW-1	3/5/2013	97.10	43.90	53.20	--	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	4	--	--	--	<50	--
MW-1	6/21/2013	97.10	42.38	54.72	--	<30	96	<0.5	<0.5	<0.5	<0.5	1	<2	<0.5	<0.8	<1	4	--	--	--	<50	--
MW-1	9/9/2013	97.10	45.12	51.98	--	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	4	--	--	--	<50	--
MW-1	12/19/2013	97.10	43.23	53.87	--	<29	<67	<0.5	<0.5	<0.5	<0.5	2	<2	<0.5	<0.8	<1	2	--	--	--	<50	--
MW-1	3/26/2014	97.10	41.07	56.03	--	<29	220	<0.5	<0.5	<0.5	<0.5	0.6	<2	<0.5	<0.5	<0.5	1	--	--	--	<50	--
MW-1	6/16/2014	97.10	40.80	56.30	--	<28	<66	<0.5	<0.5	<0.5	<0.5	0.6	<2	<0.5	<0.5	<0.5	2	--	--	--	<50	--
MW-1	9/11/2014	97.10	43.89	53.21	--	<29	<68	<0.5	<0.5	<0.5	<0.5	0.5	<2	<0.5	<0.5	<0.5	4	--	--	--	<50	--
MW-1	3/24/2015	97.10	41.23	55.87	--	<28	330	<0.5	<0.5	<0.5	<0.5	1	<2	<0.5	<0.5	<0.5	1	--	--	--	<50	--
MW-1	10/25/2017	97.10	--	--	<100	<400	<400	<1	<1	<1	<3	<1	<4	<1	<1	<0.4	1.7	--	--	--	--	--
MW-1	7/19/2019	52.90	44.12	8.78	<100	<385	<385	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<0.40	1.1	<1.0	---	---	---	---
MW-1	10/23/2019	52.90	45.66	7.24	<100	<476	<476	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<0.40	2.0	<1.0	---	---	---	---
MW-2	4/24/2000	96.95	37.76	59.19	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--
MW-2	8/30/2000	96.95	44.63	52.32	--	--	--	--	--	--	--	--	ND	ND	ND	1.07	ND	4.00	--	--	--	--
MW-2	10/4/2000	96.95	45.26	51.69	--	--	--	--	--	--	--	--	ND	ND	ND	ND	3.37	--	<1.00	--	--	--
MW-2	1/15/2001	96.95	43.87	53.08	--	--	--	--	--	--	--	--	ND	ND	ND	ND	1.24	--	--	--	--	--
MW-2	4/23/2001	96.95	44.97	51.98	--	--	--	--	--	--	--	--	ND	ND	ND	ND	2.29	--	<1.00	6.00	--	--
MW-2	7/25/2001	96.95	46.65	50.30	--	--	--	--	--	--	--	--	ND	ND	ND	ND	6.74	--	<1.00	73.3	--	--
MW-2	10/16/2001	96.95	45.72	51.23	--	--	--	--	--	--	--	--	ND	ND	ND	ND	3.26	--	<1.00	15.7	--	--
MW-2	1/9/2002	96.95	41.34	55.61	--	--	--	--	--	--	--	--	ND	ND	ND	ND	2.33	--	<1.00	7.57	--	--
MW-2	4/4/2002	96.95	43.42	53.53	--	--	--	--	--	--	--	--	ND	ND	ND	ND	3.78	--	--	--	--	--
MW-2	7/8/2002	96.95	40.69	56.26	--	--	--	--	--	--	--	--	ND	ND	ND	ND	1.48	6.88	--	--	--	--
MW-2	10/30/2002	96.95	45.74	51.21	--	--	--	--	--	--	--	--	ND	ND	ND	ND	7.1	<5	--	--	--	--
MW-2	1/17/2003	96.95	43.49	53.46	--	--	--	--	--	--	--	--	ND	1.03	ND	1.22	8.83	--	--	--	--	--
MW-2	4/4/2003	96.95	40.70	56.25	--	--	--	--	--	--	--	--	ND	11.8	ND	ND	5.34	--	--	--	--	--
MW-2	7/2/2003	96.95	43.02	53.93	--	--	--	--	--	--	--	--	ND	3.33	ND	1.55	8.91	--	--	--	--	--
MW-2	1/28/2004	96.95	41.35	55.60	--	--	--	--	--	--	--	--	ND	40.4	ND	2.1	9.4	--	--	--	--	--
MW-2	4/26/2004	96.95	43.21	53.74	--	--	--	--	--	--	--	--	ND	16.1	0.563	2.53	12.5	--	--	--	1.91	--
MW-2	7/23/2004	96.95	44.70	52.25	--	--	--	--	--	--	--	--	ND	7.24	0.899	3.58	18.5	--	--	--	--	--
MW-2	11/5/2004	96.95	44.60	52.35	--	--	--	--	--	--	--	--	ND	2.67	ND	2.74	10.8	--	--	--	2.83	--
MW-2	2/4/2005	96.9																				

Table 1

Summary of Historical Groundwater Data
Former Unocal Facility
Phillips 66 Site 0978
1300 West 12th Street
Vancouver, Washington

	Sample	TOC Elevation	Depth to Water	GW Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloroform	Chloroform	MTBE	1,1,1-TCA	TCE	PCE	cis-1,2-Dichloroethene	Dissolved Lead	Total Lead	Ethanol	Dissolved Oxygen		
MW-2	3/3/2006	96.95	41.22	55.73	--	--	--	--	--	--	--	<2.0	7.0	<0.8	2.0	8.0	--	--	--	--	--	6.3		
MW-2	6/29/2006	96.95	40.78	56.17	--	--	--	--	--	--	--	<2.0	12	<0.8	2.0	13	--	--	--	--	--	6.2		
MW-2	9/8/2006	96.95	42.82	54.13	--	--	--	--	--	--	--	<2.0	120	<0.8	4.0	20	--	--	--	--	--	5.5		
MW-2	12/1/2006	96.95	41.81	55.14	--	--	--	--	--	--	--	<2.0	5.0	<0.8	<1.0	8.0	--	--	--	--	--	4.95		
MW-2	3/1/2007	96.95	42.08	54.87	--	--	--	--	--	--	--	<2.0	23.0	<0.8	2.0	11.0	--	--	--	--	--	5.7		
MW-2	6/28/2007	96.95	43.64	53.31	--	--	--	--	--	--	--	<2	35	<0.8	2	13	--	--	--	--	--	6.40		
MW-2	2/1/2008	96.95	42.70	54.25	--	--	--	<0.5	<0.7	<0.8	<0.8	--	<2	<0.5	<0.8	<1	7	--	--	--	--	--	--	
MW-2	3/20/2008	96.95	42.50	54.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-2	6/19/2008	96.95	36.82	60.13	--	--	--	<0.5	<0.7	<0.8	<0.8	3	<2	<0.5	<0.8	<1	7	--	--	--	--	--	--	
MW-2	9/30/2008	96.95	45.30	51.65	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	1.9	11	--	--	--	--	--	--	
MW-2	11/7/2008	96.95	45.10	51.85	--	--	--	<0.5	<0.7	<0.8	<0.8	2	<2	<0.5	<0.8	<1	8	--	--	--	--	--	--	
MW-2	2/19/2009	96.95	45.60	51.35	--	--	--	<0.12	<0.21	<0.20	<0.27	2.5	<1.0	<0.16	0.22	1.1	9.2	--	--	--	--	--	--	
MW-2	4/21/2009	96.95	41.82	55.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-2	7/30/2009	96.95	44.00	52.95	--	--	--	<0.12	<0.21	<0.20	<0.27	2.1	<1.0	<0.16	<0.20	1.1	8.8	--	--	--	--	--	--	
MW-2	10/27/2009	96.95	45.77	51.18	--	--	--	<0.12	<0.21	<0.20	<0.42	2.1	<1.0	<0.16	<0.20	0.60 J	5.1	--	--	--	--	--	--	
MW-2	3/12/2010	96.95	44.15	52.80	--	--	--	<0.12	<0.21	<0.20	<0.42	2.7	<0.26	<0.16	<0.20	0.54 J	3.6	--	--	--	--	--	--	
MW-2	6/4/2010	96.95	40.06	56.89	--	<77.7	<388	<1.0	<1.0	<1.0	<3.0	3.5	<4.0	<1.0	<1.0	<1.0	<1.0	2.1	--	--	--	--	--	--
MW-2	9/2/2010	96.95	45.82	51.13	--	<75.8	<379	<1.0	<1.0	<1.0	<3.0	1.6	<4.0	<1.0	<1.0	<1.0	1.0	6.0	--	--	--	--	--	--
MW-2	12/1/2010	96.95	43.15	53.80	--	<75.5	<377	<1.0	<1.0	<1.0	<3.0	3.5	<4.0	<1.0	<1.0	<1.0	<1.0	2.3	--	--	--	--	--	--
MW-2	3/8/2011	96.95	40.33	56.62	--	<75.5	<377	<1.0	<1.0	<1.0	<3.0	3.6	<4.0	<1.0	<1.0	<1.0	<1.0	2.9	--	--	--	--	--	--
MW-2	6/16/2011	96.95	31.87	65.08	--	<81.6	<408	<1.0	<1.0	<1.0	<3.0	2.5	<4.0	<1.0	<1.0	<1.0	<1.0	2.2	--	--	--	--	--	--
MW-2	9/26/2011	96.95	44.79	52.16	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	2	<2	<0.5	<0.8	<1	6	--	--	--	<50	--	--	
MW-2	12/19/2011	96.95	45.11	51.84	--	34	<67	<0.5	<0.5	<0.5	<0.5	2	<2	<0.5	<0.8	<1	4	--	--	<50	--	--	--	
MW-2	3/23/2012	96.95	28.49	68.46	--	<28	<66	<0.5	<0.5	<0.5	<0.5	3	<2	<0.5	<0.8	<1	1	--	--	<50	--	--	--	
MW-2	6/18/2012	96.95	38.09	58.86	--	<28	<66	<0.5	<0.5	<0.5	<0.5	4	<2	<0.5	<0.8	<1	2	--	--	<50	--	--	--	
MW-2	8/28/2012	96.95	43.13	53.82	--	49	<66	<0.5	<0.5	<0.5	<0.5	2	<2	<0.5	<0.8	<1	4	--	--	<50	--	--	--	
MW-2	12/17/2012	96.95	39.39	57.56	--	<29	<68	<0.5	<0.5	<0.5	<0.5	4	<2	<0.5	<0.8	<1	2	--	--	<50	--	--	--	
MW-2	3/5/2013	96.95	43.66	53.29	--	<31	<73	<0.5	<0.5	<0.5	<0.5	2	<2	<0.5	<0.8	<1	4	--	--	<50	--	--	--	
MW-2	6/21/2013	96.95	42.20	54.75	--	39	140	<0.5	<0.5	<0.5	<0.5	3	<2	<0.5	<0.8	<1	3	--	--	<50	--	--	--	
MW-2	9/9/2013	96.95	44.96	51.99	--	60	87	<0.5	<0.5	<0.5	<0.5	2	<2	<0.5	<0.8	<1	4	--	--	<50	--	--	--	
MW-2	12/19/2013	96.95	44.10	52.85	--	<29	<67	<0.5	<0.5	<0.5	<0.5	3	<2	<0.5	<0.8	<1	3	--	--	<50	--	--	--	
MW-2	3/26/2014	96.95	40.80	56.15	--	<28	<66	<0.5	<0.5	<0.5	<0.5	4	<2	<0.5	<0.5	<0.5	2	--	--	<50	--	--	--	
MW-2	6/16/2014	96.95	40.60	56.35	--	<28	<65	<0.5	<0.5	<0.5	<0.5	3	<2	<0.5	<0.5	<0.5	2	--	--	<50	--	--	--	
MW-2	9/11/2014	96.95	43.56	53.39	--	41	<68	<0.5	<0.5	<0.5	<0.5	2	<2	<0.5	<0.5	<0.5	4	--	--	<50	--	--	--	
MW-2	3/24/2015	96.95	41.01	55.94	--	34	150	<0.5	<0.5	<0.5	<0.5	4	<2	<0.5	<0.5	<0.5	2	--	--	<50	--	--	--	
MW-2	10/25/2017	96.95	--	--	<100	<400	<400	<1	<1	<1	<3	<1	<4	<1	<1									

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Former Unocal Facility
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Vancouver, Washington

	Sample	TOC	Depth to	GW	TPHg	TPHd	TPHo	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloroform	Chloroform	MTBE	1,1,1-TCA	TCE	PCE	cis-1,2-Dichloroethene	Dissolved Lead	Total Lead	Ethanol	Dissolved Oxygen	
		Elevation	Water	Elevation																			
MW-4	4/23/2001	95.80	43.87	51.93	--	--	--	--	--	--	--	ND	ND	ND	ND	9.02	--	<1.00	2.38	--	--	--	
MW-4	7/25/2001	95.80	45.43	50.37	--	--	--	--	--	--	--	ND	ND	ND	ND	7.92	--	<1.00	62.0	--	--	--	
MW-4	10/16/2001	95.80	44.59	51.21	--	--	--	--	--	--	--	ND	ND	ND	ND	3.8	--	<1.00	10.8	--	--	--	
MW-4	1/9/2002	95.80	40.17	55.63	--	--	--	--	--	--	--	ND	ND	ND	ND	3.21	--	<1.00	13.9	--	--	--	
MW-4	4/4/2002	95.80	43.32	52.48	--	--	--	--	--	--	--	ND	8.58	2.87	15.4	45.5	--	--	--	--	--	--	--
MW-4	7/8/2002	95.80	39.53	56.27	--	--	--	--	--	--	--	ND	22.7	1.83	9.59	22.2	--	--	--	--	--	--	--
MW-4	10/30/2002	95.80	44.53	51.27	--	--	--	--	--	--	--	ND	1,090	ND	35	76.6	--	--	--	--	--	--	--
MW-4	1/17/2003	95.80	42.32	53.48	--	--	--	--	--	--	--	ND	2,960	ND	27.2	84.8	--	--	--	--	--	--	--
MW-4	4/4/2003	95.80	39.53	56.27	--	--	--	--	--	--	--	ND	779	ND	12.2	48.2	--	--	--	--	--	--	--
MW-4	7/2/2003	95.80	41.90	53.90	--	--	--	--	--	--	--	ND	397	2.38	11.6	58.2	--	--	--	--	--	--	--
MW-4	1/28/2004	95.80	40.20	55.60	--	--	--	--	--	--	--	ND	289	ND	11.2	63.9	--	--	--	--	--	--	--
MW-4	4/26/2004	95.80	42.05	53.75	--	--	--	--	--	--	--	ND	362	1.62	6.86	49.6	--	--	--	--	--	--	2.11
MW-4	7/23/2004	95.80	43.61	52.19	--	--	--	--	--	--	--	ND	86.1	1.7	4.97	48.4	--	--	--	--	--	--	--
MW-4	11/5/2004	95.80	43.49	52.31	--	--	--	--	--	--	--	ND	59.8	2.13	6.14	45.5	--	--	--	--	--	--	3.18
MW-4	2/4/2005	95.80	42.96	52.84	--	--	--	--	--	--	--	<1.0	169	2.14	5.15	46.8	--	--	--	--	--	--	--
MW-4	5/10/2005	95.80	40.29	55.51	--	--	--	--	--	--	--	<5.0	4.86	ND	ND	4.91	--	--	--	--	--	--	--
MW-4	8/8/2005	95.80	43.00	52.80	--	--	--	--	--	--	--	<1.0	139	1.85	5.3	44.8	--	--	--	--	--	--	1.94
MW-4	12/13/2005	95.80	42.97	52.83	--	--	--	--	--	--	--	<2.0	110	0.9	2.0	17	--	--	--	--	--	--	6.07
MW-4	3/3/2006	95.80	40.02	55.78	--	--	--	--	--	--	--	<2.0	70	<0.8	2.0	11	--	--	--	--	--	--	4.89
MW-4	6/29/2006	95.80	39.63	56.17	--	--	--	--	--	--	--	<2.0	110	<0.8	3.0	23	--	--	--	--	--	--	4.90
MW-4	9/8/2006	95.80	43.66	52.14	--	--	--	--	--	--	--	<2.0	270	1	5.0	35	--	--	--	--	--	--	4.30
MW-4	12/1/2006	95.80	40.65	55.15	--	--	--	--	--	--	--	<2.0	160	<0.8	2.0	18	--	--	--	--	--	--	3.80
MW-4	3/1/2007	95.80	40.90	54.90	--	--	--	--	--	--	--	<2.0	180	<0.8	2.0	25	--	--	--	--	--	--	4.65
MW-4	6/28/2007	95.80	42.48	53.32	--	--	--	--	--	--	--	<2	2	<0.8	2	33	--	--	--	--	--	--	3.5
MW-4	2/1/2008	95.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	3/20/2008	95.80	41.34	54.46	--	--	--	<0.5	<0.7	<0.8	<0.8	--	<2	<0.5	<0.8	1	11	--	--	--	--	--	--
MW-4	6/19/2008	95.80	35.66	60.14	--	--	--	<0.5	<0.7	<0.8	<0.8	0.9	<2	<0.5	<0.8	<1	9	--	--	--	--	--	--
MW-4	9/30/2008	95.80	44.15	51.65	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	1.2	15	--	--	--	--	--	--
MW-4	11/7/2008	95.80	43.94	51.86	--	--	--	<0.5	<0.7	<0.20	<0.8	<0.8	<2	<0.5	<0.8	1	16	--	--	--	--	--	--
MW-4	2/19/2009	95.80	43.54	52.26	--	--	--	<0.12	<0.21	<0.20	<0.27	0.19	<1.0	0.89	0.33	0.98	26	--	--	--	--	--	--
MW-4	4/21/2009	95.80	40.65	55.15	--	--	--	<0.12	<0.21	<0.20	<0.27	1.6	<1.0	0.32 J	<0.20	0.88 J	11.7	--	--	--	--	--	--
MW-4	7/30/2009	95.80	42.85	52.95	--	--	--	<0.12	<0.21	<0.20	<0.27	1.0	<1.0	0.40 J	0.29 J	1.2	19.0	--	--	--	--	--	--
MW-4	10/27/2009	95.80	44.61	51.19	--	--	--	<0.12	<0.21	<0.20	<0.42	0.99 J	<1.0	0.31 J	<0.15	1.0	16.6	--	--	--	--	--	--
MW-4	3/12/2010	95.80	43.02	52.78	--	--	--	<0.12	<0.21	<0.20	<0.42	0.79 J	<0.26	0.33 J	0.26 J	1.0	13.9	--	--	--	--	--	--
MW-4	6/4/2010	95.80	38.90	56.90	--	<75.8	<379	<1.0	<1.0	<1.0	<3.0	2.60	<4.0	<1.0	<1.0	<1.0	5.2	--	--	--	--	--	--
MW-4	9/2/2010	95.80	44.65	51.15	--	<75.8	<379	<1.0	<1.0	<1.0	<												

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Former Unocal Facility
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	Sample	TOC Elevation	Depth to Water	GW Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloroform	Chloroform	MTBE	1,1,1-TCA	TCE	PCE	cis-1,2-Dichloroethene	Dissolved Lead	Total Lead	Ethanol	Dissolved Oxygen
MW-4	8/28/2012	95.80	42.01	53.79	--	620	650	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	12	--	--	--	<50	--
MW-4	12/17/2012	95.80	38.17	57.63	--	80	66	<0.5	<0.5	<0.5	<0.5	0.9	<2	<0.5	<0.8	<1	7	--	--	--	<50	--
MW-4	3/5/2013	95.80	42.52	53.28	--	610	710	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	11	--	--	--	<50	--
MW-4	6/21/2013	95.80	40.98	54.82	--	540	850	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	9	--	--	--	<50	--
MW-4	9/9/2013	95.80	42.89	52.91	--	540	570	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	8	--	--	--	<50	--
MW-4	12/19/2013	95.80	42.86	52.94	--	460	300	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	6	--	--	--	<50	--
MW-4	3/26/2014	95.80	39.65	56.15	--	100	100	<0.5	<0.5	<0.5	<0.5	2	<2	<0.5	<0.5	<0.5	4	--	--	--	<50	--
MW-4	6/16/2014	95.80	39.48	56.32	--	630	600	<0.5	<0.5	<0.5	<0.5	0.7	<2	<0.5	<0.5	<0.5	5	--	--	--	<50	--
MW-4	9/11/2014	95.80	42.55	53.25	--	310	360	<0.5	<0.5	<0.5	<0.5	0.5	<2	<0.5	<0.5	<0.5	9	--	--	--	<50	--
MW-4	3/24/2015	95.80	40.05	55.75	--	63	150	<0.5	<0.5	<0.5	<0.5	3	<2	<0.5	<0.5	<0.5	3	--	--	--	<50	--
MW-4	10/25/2017	95.80	--	--	<100	<400	<400	<1	<1	<1	<3	<1	<4	<1	<1	<0.4	4.1	--	--	--	--	--
MW-4	7/19/2019	52.15	42.73	9.42	<100	<385	<385	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<0.40	3.1	<1.0	--	--	--	--
MW-4 Dup	10/22/2019	51.52	44.09	7.43	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<0.40	4.4	<1.0	--	--	--	--
MW_5	9/22/1999	96.47	--	--	<80	432*	632*	<1	<1	<1	<3	--	--	--	3.67	2.53	23.6	--	--	27	--	--
MW-5	8/30/2000	96.47	44.18	52.29	--	--	--	--	--	--	--	ND	ND	2.0	1.56	25.6	--	--	--	--	--	--
MW-5	10/4/2000	96.47	44.72	51.75	--	--	--	--	--	--	--	ND	ND	1.73	16.9	--	<1.00	--	--	--	--	--
MW-5	1/15/2001	96.47	43.35	53.12	--	--	--	--	--	--	--	ND	ND	ND	7.37	--	--	--	--	--	--	--
MW-5	4/23/2001	96.47	44.52	51.95	--	--	--	--	--	--	--	ND	ND	ND	9.21	--	<1.00	1.74	--	--	--	--
MW-5	7/25/2001	96.47	46.11	50.36	--	--	--	--	--	--	--	ND	ND	ND	1.42	22.9	--	<1.00	12.3	--	--	--
MW-5	10/16/2001	96.47	45.28	51.19	--	--	--	--	--	--	--	ND	ND	ND	1.29	18	--	<1.00	6.02	--	--	--
MW-5	1/9/2002	96.47	NA	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	4/4/2002	96.47	42.95	53.52	--	--	--	--	--	--	--	ND	ND	2.78	15.1	105	--	--	--	--	--	--
MW-5	7/8/2002	96.47	40.22	56.25	--	--	--	--	--	--	--	ND	ND	1.48	5.6	57.6	--	--	--	--	--	--
MW-5	10/30/2002	96.47	45.15	51.32	--	--	--	--	--	--	--	ND	1.37	2.75	14.8	101	--	--	--	--	--	--
MW-5A	1/17/2003	96.46	42.93	53.53	--	--	--	--	--	--	--	ND	15.1	2.29	10.3	79	--	--	--	--	--	--
MW-5A	4/4/2003	96.46	40.18	56.28	--	--	--	--	--	--	--	ND	67	ND	1.91	17.1	--	--	--	--	--	--
MW-5A	7/2/2003	96.46	42.55	53.91	--	--	--	--	--	--	--	ND	35.7	2.2	9.8	78.1	--	--	--	--	--	--
MW-5A	1/28/2004	96.46	40.83	55.63	--	--	--	--	--	--	--	ND	449	ND	ND	31.4	--	--	--	--	--	--
MW-5A	4/26/2004	96.46	42.68	53.78	--	--	--	--	--	--	--	ND	164	3.9	7.43	68	--	--	--	--	--	2.89
MW-5A	7/23/2004	96.46	44.21	52.25	--	--	--	--	--	--	--	ND	45	5.07	9.93	79.3	--	--	--	--	--	--
MW-5A	11/5/2004	96.46	44.06	52.40	--	--	--	--	--	--	--	ND	ND	ND	ND	2.98	--	--	--	--	--	4.89
MW-5A	2/4/2005	96.46	43.60	52.86	--	--	--	--	--	--	--	<1.0	26	2.71	5.47	58.8	--	--	--	--	--	--
MW-5A	5/10/2005	96.46	40.94	55.52	--	--	--	--	--	--	--	<5.0	214	ND	ND	21.2	--	--	--	--	--	--
MW-5A	8/8/2005	96.46	43.64	52.82	--	--	--	--	--	--	--	<1.0	89	2.3	5.8	59.4	--	--	--	--	--	4.62
MW-5A	12/13/2005	96.46	43.60	52.86	--	--	--	--	--	--	--	<2.0	95	1.0	3.0	26	--	--	--	--	--	5.82
MW-5A	3/3/2006	96.46	40.71	55.75	--	--	--	--	--	--	--	<2.0	110	0.8	2.0	25	--	--	--	--	--	3.09
MW-5A	6/29/2006	96.46	40.25	56.21	--	--	--	--	--	--	--	<2.0	130	1.0	3.0	37	--	--	--	--	--	4.15
MW-5A	9/8/2006	96.46	44.30	52.16	--	--	--	--	--	--	--	<2.0	16	2.0	6.0	66	--	--	--	--	--	3.30
MW-5A	12/1/2006	96.46	41.29	55.17	--	--	--	--	--</													

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	Sample	TOC Elevation	Depth to Water	GW Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloroform	Chloroform	MTBE	1,1,1-TCA	TCE	PCE	cis-1,2-Dichloroethene	Dissolved Lead	Total Lead	Ethanol	Dissolved Oxygen
MW-5A	6/28/2007	96.46	43.12	53.34	--	--	--	<0.5	<0.7	<0.8	<0.8	--	<2	1	<0.8	3	40	--	--	--	--	3.5
MW-5A	2/1/2008	96.46	42.19	54.27	--	--	--	<0.5	<0.5	<0.8	<0.8	--	<2	<0.5	<0.8	1	32	--	--	--	--	--
MW-5A	3/20/2008	96.46	42.00	54.46	--	--	--	<0.5	<0.7	<0.8	<0.8	--	<2	<0.5	<0.8	2	28	--	--	--	--	--
MW-5A	6/19/2008	96.46	36.25	60.21	--	--	--	<0.5	<0.7	<0.8	<0.8	1	<2	<0.5	<0.8	<1	9	--	--	--	--	--
MW-5A	9/30/2008	96.46	44.80	51.66	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	1.5	26	--	--	--	--	--
MW-5A	11/7/2008	96.46	44.62	51.84	--	--	--	<0.5	<0.7	<0.8	<0.8	<0.8	<2	<0.5	<0.8	1.0	26	--	--	--	--	--
MW-5A	2/19/2009	96.46	44.15	52.31	--	--	--	<0.12	<0.21	<0.20	<0.27	3.1	<1.0	0.23	0.26	0.97	26	--	--	--	--	--
MW-5A	4/21/2009	96.46	41.31	55.15	--	--	--	0.26 J	0.90 J	0.54 J	0.99 J	1.8	<1.0	0.22 J	<0.20	0.65 J	14.1	--	--	--	--	--
MW-5A	7/30/2009	96.46	43.50	52.96	--	--	--	<0.12	<0.21	<0.20	<0.27	1.8	<1.0	0.28 J	0.28 J	1.0	23.5	--	--	--	--	--
MW-5A	10/27/2009	96.46	45.22	51.24	--	--	--	<0.12	<0.21	<0.20	<0.42	0.73 J	<1.0	<0.16	<0.20	0.46 J	10.4	--	--	--	--	--
MW-5A	3/12/2010	96.46	43.65	52.81	--	--	--	<0.12	<0.21	<0.20	<0.42	3.1	<0.26	0.16 J	<0.20	0.66 J	11.6	--	--	--	--	--
MW-5A	6/4/2010	96.46	39.59	56.87	--	<77.7	<388	<1.0	<1.0	<1.0	<3.0	1.6	<4.0	<1.0	<1.0	<1.0	7.3	--	--	--	--	--
MW-5A	9/2/2010	96.46	45.29	51.17	--	<75.8	<379	<1.0	<1.0	<1.0	<3.0	1.9	<4.0	<1.0	<1.0	<1.0	13.0	--	--	--	--	--
MW-5A	12/1/2010	96.46	42.59	53.87	--	<75.5	<377	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<1.0	7.4	--	--	--	--	--
MW-5A	3/8/2011	96.46	39.81	56.65	--	118	<377	<1.0	<1.0	<1.0	<3.0	1.6	<4.0	<1.0	<1.0	<1.0	9.2	--	--	--	--	--
MW-5A	6/16/2011	96.46	30.62	65.84	--	<81.6	<408	<1.0	<1.0	<1.0	<3.0	2.3	<4.0	<1.0	<1.0	<1.0	3.0	--	--	--	--	--
MW-5A	9/26/2011	96.46	44.30	52.16	58	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	20	--	--	--	<50	--
MW-5A	12/19/2011	96.46	44.37	52.09	--	58	<67	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	10	--	--	--	<50	--
MW-5A	3/23/2012	96.46	27.98	68.48	--	160	380	<0.5	<0.5	<0.5	<0.5	1	<2	<0.5	<0.8	<1	3	--	--	--	<50	--
MW-5A	6/18/2012	96.46	37.57	58.89	--	180	720	<0.5	<0.5	<0.5	<0.5	2	<2	<0.5	<0.8	<1	7	--	--	--	<50	--
MW-5A	8/28/2012	96.46	42.61	53.85	--	200	560	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	14	--	--	--	<50	--
MW-5A	12/17/2012	96.46	38.82	57.64	--	140	450	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	8	--	--	--	<50	--
MW-5A	3/5/2013	96.46	43.12	53.34	--	58	<70	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	11	--	--	--	<50	--
MW-5A	6/21/2013	96.46	41.60	54.86	--	130	260	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	12	--	--	--	<50	--
MW-5A	9/9/2013	96.46	43.38	53.08	--	86	84	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	10	--	--	--	<50	--
MW-5A	12/19/2013	96.46	42.46	54.00	--	99	91	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	8	--	--	--	<50	--
MW-5A	3/26/2014	96.46	40.21	56.25	--	67	<66	<0.5	<0.5	<0.5	<0.5	2	<2	<0.5	<0.5	<0.5	5	--	--	--	<50	--
MW-5A	6/16/2014	96.46	39.98	56.48	--	190	470	<0.5	<0.5	<0.5	<0.5	1	<2	<0.5	<0.5	<0.5	6	--	--	--	<50	--
MW-5A	9/11/2014	96.46	43.08	53.38	--	88	77	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	11	--	--	--	<50	--
MW-5A	3/24/2015	96.46	40.56	55.90	--	140	470	<0.5	<0.5	<0.5	<0.5	1	<2	<0.5	<0.5	<0.5	6	--	--	--	<50	--
MW-5A	10/25/2017	96.46	--	--	<100	<400	<400	<1	<1	<1	<3	<1	<4	<1	<1	<0.4	6.2	--	--	--	--	--
MW-5A	7/19/2019	66.49	43.47	23.02	<100	<377	<377	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<0.40	4.1	<1.0	--	--	--	--
MW-5A	10/22/2019	52.15	44.68	7.47	<100	<476	<476	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<0.40	6.0	<1.0	--	--	--	--
MW-6	9/22/1999	110.19	--	--	<80	<250	<500	<1	<1	<1	<3	--	--	<1	<1	<1	--	--	11.7	--	--	
MW-6	8/30/2000	110.19	57.87	52.32	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--
MW-6	10/4/2000	110.19	58.42	51.77	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--				

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Summary of Historical Groundwater Data
Former Unocal Facility
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Vancouver, Washington

	Sample	TOC Elevation	Depth to Water	GW Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloroform	Chloroform	MTBE	1,1,1-TCA	TCE	PCE	cis-1,2-Dichloroethene	Dissolved Lead	Total Lead	Ethanol	Dissolved Oxygen
MW-6	7/8/2002	110.19	53.90	56.29	--	--	--	--	--	--	--	ND	ND	ND	ND	3.8	--	--	--	--	--	
MW-6	10/30/2002	110.19	58.90	51.29	--	--	--	--	--	--	--	ND	ND	ND	ND	2.26	--	--	--	--	--	
MW-6	1/17/2003	110.19	56.69	53.50	--	--	--	--	--	--	--	ND	ND	ND	ND	4.56	--	--	--	--	--	
MW-6	4/4/2003	110.19	53.90	56.29	--	--	--	--	--	--	--	ND	1.17	ND	ND	2.64	--	--	--	--	--	
MW-6	7/2/2003	110.19	56.24	53.95	--	--	--	--	--	--	--	ND	ND	ND	ND	4.26	--	--	--	--	--	
MW-6	1/28/2004	110.19	54.56	55.63	--	--	--	--	--	--	--	ND	ND	ND	ND	2.39	--	--	--	--	--	
MW-6	4/26/2004	110.19	56.38	53.81	--	--	--	--	--	--	--	ND	ND	ND	ND	14.9	--	--	--	--	1.83	
MW-6	7/23/2004	110.19	58.01	52.18	--	--	--	--	--	--	--	ND	ND	ND	ND	7.26	--	--	--	--	--	
MW-6	11/5/2004	110.19	57.76	52.43	--	--	--	--	--	--	--	ND	332	ND	3.05	17.7	--	--	--	--	3.08	
MW-6	2/4/2005	110.19	57.34	52.85	--	--	--	--	--	--	--	<1.0	ND	ND	ND	8.55	--	--	--	--	--	
MW-6	5/10/2005	110.19	54.70	55.49	--	--	--	--	--	--	--	<5.0	ND	ND	ND	1.53	--	--	--	--	--	
MW-6	8/8/2005	110.19	57.40	52.79	--	--	--	--	--	--	--	<1.0	<1	<200	<5.0	5.48	--	--	--	--	3.71	
MW-6	12/13/2005	110.19	57.30	52.89	--	--	--	--	--	--	--	<2.0	<0.5	<0.8	<1.0	2.0	--	--	--	--	7.4	
MW-6	3/3/2006	110.19	54.45	55.74	--	--	--	--	--	--	--	<2.0	<0.5	<0.8	<1.0	6.0	--	--	--	--	6.48	
MW-6	6/29/2006	110.19	53.94	56.25	--	--	--	--	--	--	--	<2.0	<0.5	<0.8	<1.0	11	--	--	--	--	6.95	
MW-6	9/8/2006	110.19	58.09	52.10	--	--	--	--	--	--	--	<2.0	<0.5	<0.8	<1.0	3.0	--	--	--	--	7.10	
MW-6	12/1/2006	110.19	55.00	55.19	--	--	--	--	--	--	--	<2.0	<0.5	<0.8	<1.0	2.0	--	--	--	--	6.90	
MW-6	3/1/2007	110.19	55.25	54.94	--	--	--	--	--	--	--	<2.0	<0.5	<0.8	<1.0	6.0	--	--	--	--	7.75	
MW-6	6/28/2007	110.19	56.77	53.42	--	--	--	--	--	--	--	<2	<0.5	<0.8	<1	2	--	--	--	--	6.70	
MW-6	2/1/2008	110.19	55.90	54.29	--	--	--	<0.5	<0.7	<0.8	<0.8	--	<2	<0.5	<0.8	<1	4	--	--	--	--	--
MW-6	3/20/2008	110.19	55.75	54.44	--	--	--	<0.5	<0.7	<0.8	<0.8	--	<2	<0.5	<0.8	<1	3	--	--	--	--	--
MW-6	6/19/2008	110.19	50.07	60.12	--	--	--	<0.5	<0.7	<0.8	<0.8	<0.8	<2	<0.5	<0.8	<1	1	--	--	--	--	--
MW-6	9/30/2008	110.19	58.60	51.59	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--
MW-6	11/7/2008	110.19	58.30	51.89	--	--	--	<0.5	<0.7	<0.8	<0.8	<0.8	<0.8	<2	<0.5	<0.8	<1	0.9	--	--	--	--
MW-6	2/19/2009	110.19	57.87	52.32	--	--	--	<0.12	<0.21	<0.20	<0.27	0.34	<1.0	<0.16	<0.20	<0.22	1.5	--	--	--	--	--
MW-6	4/21/2009	110.19	55.04	55.15	--	--	--	0.17 J	0.82 J	0.32 J	0.61 J	<0.15	<1.0	<0.16	<0.20	<0.22	3.4	--	--	--	--	--
MW-6	7/30/2009	110.19	57.25	52.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	10/27/2009	110.19	58.95	51.24	--	--	--	<0.12	<0.21	<0.20	<0.42	0.20 J	<1.0	<0.16	<0.20	<0.22	0.70 J	--	--	--	--	--
MW-6	3/12/2010	110.19	57.40	52.79	--	--	--	<0.12	<0.21	<0.20	<0.42	<0.15	<0.26	<0.16	<0.20	<0.22	2.0	--	--	--	--	--
MW-6	6/4/2010	110.19	53.33	56.86	--	<80.0	<400	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<1.0	1.6	--	--	--	--	--
MW-6	9/2/2010	110.19	59.01	51.18	--	129	460	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<1.0	1.1	--	--	--	--	--
MW-6	12/1/2010	110.19	56.39	53.80	--	<75.5	<377	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--
MW-6	3/8/2011	110.19	53.53	56.66	--	<75.5	<377	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<1.0	1.1	--	--	--	--	--
MW-6	6/16/2011	110.19	45.00	65.19	--	<83.3	<417	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--
MW-6	9/26/2011	110.19	58.01	52.18	110	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	0.9	--	--	<50	--
MW-6	12/19/2011	110.19	58.09	52.10	--	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	<0.8	--	--	<50	--
MW-6	3/23/2012	110.19	51.73	58.46	--	190	750	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	<0.8	--	--	<50	--
MW-6	6/18/2012	110.19	51.33	58.86	--	68	390	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	2	--	--	<50	--
MW-6	8/28/2012	110.19	56.33	53.86	--	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<							

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	Sample	TOC Elevation	Depth to Water	GW Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloroform	Chloroform	MTBE	1,1,1-TCA	TCE	PCE	cis-1,2-Dichloroethene	Dissolved Lead	Total Lead	Ethanol	Dissolved Oxygen	
MW-6	12/19/2013	110.19	57.23	52.96	--	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.8	<2	<0.5	<0.8	<1	<0.8	--	--	--	<50	--	
MW-6	3/26/2014	110.19	53.98	56.21	--	50	290	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	2	--	--	--	<50	--	
MW-6	6/16/2014	110.19	53.77	56.42	--	34	210	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	2	--	--	--	<50	--	
MW-6	9/11/2014	110.19	57.82	52.37	--	<29	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	0.7	--	--	--	<50	--	
MW-6	3/24/2015	110.19	54.33	55.86	--	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	--	--	--	<50	--		
MW-6	10/25/2017	110.19	--	--	<100	<430	<430	<1	<1	<1	<3	<1	<4	<1	<1	<0.4	<1	--	--	--	--	--	
MW-6	7/19/2019	67.12	57.15	9.97	<100	<417	<417	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<0.40	<1.0	<1.0	--	--	--	--	--
MW-6	10/23/2019	66.49	58.62	7.87	<100	<500	<500	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<0.40	<1.0	<1.0	--	--	--	--	--
MW-7	7/19/2019	67.63	58.42	9.21	<100	<417	<417	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<0.40	1.0	<1.0	--	--	--	--	--
MW-7	10/22/2019	67.12	59.68	7.44	<100	<385	<385	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<1.0	<0.40	<1.0	<1.0	--	--	--	--	--
MW-8	7/19/2019	52.66	58.87	-6.21	<100	<392	<392	<1.0	<1.0	<1.0	<3.0	1.3	<4.0	<1.0	<1.0	<0.40	<1.0	<1.0	--	--	--	--	--
MW-8	10/22/2019	67.63	60.14	7.49	<100	<455	<455	<1.0	<1.0	<1.0	<3.0	1.0	<4.0	<1.0	<1.0	<0.40	<1.0	<1.0	--	--	--	--	--
MW-9	7/19/2019	52.94	43.91	9.03	<100	<392	<392	<1.0	<1.0	<1.0	<3.0	3.5	<4.0	<1.0	<1.0	<0.40	1.2	<1.0	--	--	--	--	--
MW-9	10/23/2019	52.66	45.45	7.21	<100	<588	<588	<1.0	<1.0	<1.0	<3.0	2.5	<4.0	<1.0	<1.0	<0.40	2.1	<1.0	--	--	--	--	--
MW-10	7/19/2019	52.69	44.21	8.48	<100	<417	<417	<1.0	<1.0	<1.0	<3.0	<4.0	<4.0	<1.0	<1.0	<0.40	1.5	<1.0	--	--	--	--	--
MW-10	10/23/2019	52.94	45.70	7.24	<100	<526	<526	<1.0	<1.0	<1.0	<3.0	1.9	<4.0	<1.0	<1.0	<0.40	1.8	<1.0	--	--	--	--	--

Notes:

Bold values equal or exceed Department of Ecology Model Toxics Control Act (MTCA) Method A Cleanup Level, per Cleanup Level and Risk Calculation (CLARC) data tables published in August 2015.

Groundwater monitoring data and laboratory analytical results prior to September 26, 2011 provided by STANTEC Consulting Corporation.

Top of casing (TOC) elevations were surveyed in 2019 in reference to North American Vertical Datum of 88 (NAVD88), with the exception of well MW-6, which was inaccessible. The TOC for MW-6 is an estimate based on historical data.

GW = Groundwater

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

USEPA = United States Environmental Protection Agency

µg/L = Micrograms per liter

mg/L = Milligrams per liter

-- = Not Analyzed, Sampled, or Measured

NA = Not Applicable

NE = Not Established

< = Less than the stated laboratory reporting limit

TPH as Gasoline-range organics (TPHg) analyzed by Northwest Method NWTPH-Gx.

TPH as Diesel-range organics (TPHd) analyzed by Northwest Method NWTPH-Dx.

TPH as Heavy Oil-range organics (TPHo) analyzed by Northwest Method NWTPH-Dx.

Benzene, toluene, ethylbenzene, total xylenes (BTEX) analyzed by USEPA Method 8260B

Chloroform and Methylene Chloride analyzed by USEPA Method 8260B.

Methyl tert-butyl ether (MTBE) analyzed by EPA Method 8260B.

1,1,1-Trichloroethane (TCA) analyzed by USEPA Method 8260B.

Tetrachloroethene (PCE) analyzed by EPA Method 8260B

Trichloroethene (TCE) analyzed by EPA Method 8260B

Table 1

Summary of Historical Groundwater Data
Former Unocal Facility
Phillips 66 Site 0978
1300 West 12th Street
Vancouver, Washington

Sample	TOC	Depth to Water	GW Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloroform	Chloroform	MTBE	1,1,1-TCA	TCE	PCE	cis-1,2-Dichloro-ethene	Dissolved Lead	Total Lead	Ethanol	Dissolved Oxygen	
Total and dissolved lead analyzed by USEPA Method 200 or 6000/7000 Series.																						
Ethanol analyzed by USEPA Method 8260B.																						
* Detected compounds may be due to oil, but also include non-petroleum peaks that suggest the presence of biogenic interferences																						
a Concentration levels stated by MTCA Method A for TPH-G is 800 µg/L when benzene is present.																						
b TOC referenced to a site datum with an assumed elevation of 100.00 feet.																						
c This sample was collected as a field duplicate.																						

Appendices

Appendix A

Field Forms

WELL GAUGING DATA

Project # 191022-MPI Date 10/22/19 Client GHD

Site 1300 W. 12th St., Vancouver, WA

LOW FLOW WELL MONITORING DATA SHEET

Project #: 1A1022-HPI	Client: GHD
Sampler: HP	Gauging Date: 10/23/19
Well I.D.: MW-1	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): 48.60	Depth to Water (ft.): 45.66
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC	Grade
	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other _____
Start Purge Time: 09:22 Flow Rate: 200 ml/min Pump Depth: 47'

Did well dewater? Yes No Amount actually evacuated: 3,62

Sampling Time: 0941 Sampling Date: 10/23/19

Sample I.D.: MW-1 Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 191022-NPI	Client: GHD
Sampler: NP	Gauging Date: 10/22/19
Well I.D.: MW-2	Well Diameter (in.): (2) 3 4 6 8 _____
Total Well Depth (ft.): 48.96	Depth to Water (ft.): 45.22
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC	Grade
	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other _____
Start Purge Time: 1430 Flow Rate: 200 ml/min Pump Depth: 48'

Did well dewater? Yes No Amount actually evacuated: 3.6 L

Sampling Time: 1453 Sampling Date: 10/22/19

Sample I.D.: MW-2 Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 191022-11P1	Client: GHD
Sampler: 11P	Gauging Date: 10/22/19
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8
Total Well Depth (ft.): 49.13	Depth to Water (ft.): 44.09
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: PVC	Grade
	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other _____
Start Purge Time: 1322 Flow Rate: 200 mL/min Pump Depth: 47'

Did well dewater? Yes No Amount actually evacuated: 3.6 L

Sampling Time: 13:11 Sampling Date: 10/22/19

Sample I.D.: MW-9 Laboratory: Page

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.: DUP-1 @ 1200

LOW FLOW WELL MONITORING DATA SHEET

Project #:	191022-HF1	Client:	GHD
Sampler:	HP	Gauging Date:	10/22/19
Well I.D.:	MW-5A	Well Diameter (in.):	(2) 3 4 6 8
Total Well Depth (ft.):	44.22	Depth to Water (ft.):	44.68
Depth to Free Product:	—	Thickness of Free Product (feet):	—
Referenced to:	PVC	Grade:	YSI 536

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1400 Flow Rate: 200 ml/min Pump Depth: 47'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
1403	15.15	6.56	217	55	9.65	63.7	600	44.68
1406	14.77	6.30	218	65	7.46	70.0	1200	44.68
1409	14.44	6.08	219	39	7.53	75.3	1800	44.68
1412	14.38	6.06	220	8	7.65	74.2	2400	44.71
1415	14.37	6.10	221	7	7.72	72.6	3000	44.71
1418	14.33	6.14	221	8	7.74	69.6	3600	44.71
1421	14.31	6.15	221	8	7.79	68.4	4200	44.71

Did well dewater? Yes Amount actually evacuated: 4.2L

Sampling Time: 1422 Sampling Date: 10/22/19

Sample I.D.: MW-5A Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See L.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 191022-HC1	Client: GHD
Sampler: HF	Gauging Date: 10/23/19
Well I.D.: mw-6	Well Diameter (in.): <input checked="" type="radio"/> 3 4 6 8
Total Well Depth (ft.): 64.67	Depth to Water (ft.): 58.62
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: RV	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 No Tubing Other

Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 0956 Flow Rate: 200 mL/min Pump Depth: _____

Did well dewater? Yes No Amount actually evacuated: 3.6L

Sampling Time: 10:55 Sampling Date: 10/23/19

Sample I.D.: MW-6 Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 141022-HP1	Client: GHD
Sampler: HP	Gauging Date: 10/22/19
Well I.D.: mw. 7	Well Diameter (in.): ② 3 4 6 8
Total Well Depth (ft.): 69.92	Depth to Water (ft.): 59.68
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC	Grade
	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: 112 Flow Rate: 200 mL/min Pump Depth: 65'

Start Purge Time: 1121 Flow Rate: 200 mL/min Pump Depth: 65'

Start Purge Time: 1121 Flow Rate: 200 mL/min Pump Depth: 65'

Did well dewater? Yes No Amount actually evacuated: 3,62

Sampling Time: 1140 Sampling Date: 10/22/19

Sample I.D.: MW-7 Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see c.o.c.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #:	191022-HPI	Client:	GHD
Sampler:	HPI	Gauging Date:	10/22/19
Well I.D.:	MW-8	Well Diameter (in.):	(2) 3 4 6 8
Total Well Depth (ft.):	69.72	Depth to Water (ft.):	60.19
Depth to Free Product:	—	Thickness of Free Product (feet):	—
Referenced to:	PVC	Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other _____
Start Purge Time: 1041 Flow Rate: 200 ml/min Pump Depth: 65'

Did well dewater? Yes No Amount actually evacuated: 3,6 L

Sampling Time: 1100 Sampling Date: 10/22/19

Sample I.D.: MW-8 Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other See C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #:	191022-HPI	Client:	GHD
Sampler:	HPI	Gauging Date:	10/23/19
Well I.D.:	MW-9	Well Diameter (in.) :	(2) 3 4 6 8
Total Well Depth (ft.) :	47.83	Depth to Water (ft.) :	45.45
Depth to Free Product:	—	Thickness of Free Product (feet):	—
Referenced to:	PVO	Grade	Flow Cell Type: 4S1 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: 1034 Flow Rate: 700 mL/min Pump Depth: 47

Did well dewater? Yes No Amount actually evacuated: 3.6 L

Sampling Time: 10:53 Sampling Date: 10/23/19

Sample I.D.: mw-q Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #:	191022-HF1	Client:	GHD	
Sampler:	HF	Gauging Date:	10/23/19	
Well I.D.:	MW-10	Well Diameter (in.):	(2) 3 4 6 8	
Total Well Depth (ft.):	48.70	Depth to Water (ft.):	45.70	
Depth to Free Product:	—	Thickness of Free Product (feet):	—	
Referenced to:	PVC	Grade	Flow Cell Type:	YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other _____
Start Purge Time: 0850 Flow Rate: 200 mL/min Pump Depth: 48"

Did well dewater? Yes No Amount actually evacuated: 3.6 L

Sampling Time: 0909 Sampling Date: 10/23/19

Sample I.D.: MW-10 Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company: GHD Services Inc.	Report To: Matt Davis; heather.gadwa@ghd.com	Attention: apinvoices-340@ghd.com / Jeff Cloud
Address: 3600 Port of Tacoma Road, Suite 302 Tacoma, WA 98424	Copy To: Jeffrey.Cloud@GHD.com eric.maise@ghd.com ; rosemarie.borths@ghd.com	Company Name: GHD Services Inc. - 340
Email To: matthew.davis@ghd.com	Purchase Order No.	Address: 2055 Niagara Falls Blvd., Niagara Falls, NY 14304
Phone: 253-302-8281	Client Project ID: P66 / 1300 W 12th St, Vancouver 978	Pace Quote Reference:
Requested Due Date/TAT: 10 Day (Standard)	Project Number: 47231541	Pace Project Manager: Jennifer Gross

Section B
Required Project Information:

Project Type: Drinking Water	Code: DW	Preservative: Unpreserved	Analysis: 8260 BTEx+HVOCS
Water	WT	H2SO4	NWTPHGx
Waste Water	WW	HNO3	NWTPHDx
Product	P	HCl	
Soil/Solid	SL	NaOH	
Oil	OL	Na2S2O3	
Wipe	WP	Methanol	
Air	AR	Other	
Other	OT		
Tissue	TS		

Section C
Invoice Information:

Page : 1 Of 1

Regulatory Agency:

State / Location:

WA / Vancouver

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left) WT WT	SAMPLE TYPE (G-E-R-A-B C-C-O-M-P)	COLLECTED		SAMPLE TEMP AT COLLECTION	Preservatives						Analysis Tests 8260 BTEx+HVOCS NWTPHGx NWTPHDx	Residual Chlorine (Y/N)		
									START	END								
						DATE	TIME		DATE	TIME	Unpreserved	H2SO4	HNO3	HCl			NaOH	Na2S2O3
1	DWP-1	WT	WT	WT	WT	5	10/22	1200		X								
2	MW-1	WT	WT	WT	WT	5	10/23	0941		X								
3	MW-2	WT	WT	WT	WT	5	10/22	1453		X								
4	MW-4	WT	WT	WT	WT	5	10/22	1341		X								
5	MW-5A	WT	WT	WT	WT	5	10/22	1422		X								
6	MW-6	WT	WT	WT	WT	5	10/23	1015		X								
7	MW-7	WT	WT	WT	WT	5	10/22	1140		X								
8	MW-8	WT	WT	WT	WT	5	10/22	1100		X								
9	MW-9	WT	WT	WT	WT	5	10/23	1053		X								
10	MW-10	WT	WT	WT	WT	5	10/23	0909		X								
11																		
12																		
ADDITIONAL COMMENTS				RELINQUISHED BY/AFFILIATION				DATE	TIME	ACCEPTED BY/AFFILIATION				DATE	TIME	SAMPLE CONDITIONS		
11145925-2019-02 11145925-PH-Vancouver				Patrick Ho / BT3				10/23/19	1800	Shipped via FedEx				10/23	1800			

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER: Patrick Ho		
SIGNATURE of SAMPLER:		
DATE Signed: 10/23/19		

TEMP in C	
Received on Ice (Y/N)	
Custody Sealed Cooler (Y/N)	
Samples intact (Y/N)	

WELLHEAD INSPECTION FORM

Client: GHD Site: 1300 w. 12th St., Vancouver, WA Date: 10/22/19
Job #: 141022-HF1 Technician: HW Page 1 of 1

NOTES:

PHILLIPS 66-WASHINGTON/OREGON TYPE A BILL OF LADING

SOURCE RECORD **BILL OF LADING**
 FOR PURGEWATER RECOVERED FROM
 GROUNDWATER WELLS AT PHILLIPS 66 FACILITIES IN
 THE STATE OF WASHINGTON AND OREGON. THE
 PURGE- WATER WHICH HAS BEEN RECOVERED FROM
 GROUND- WATER WELLS IS COLLECTED BY THE
 CONTRACTOR AND HAULED TO THEIR FACILITY IN
 KENT, WASHINGTON FOR TEMPORARILY HOLDING
 PENDING TRANSPORT BY OTHERS TO FINAL
 DESTINATION.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BLAINE TECH), 22727 72ND Ave South, Suite D – 102, Kent, WA 98032. BLAINE TECH. is authorized by PHILLIPS 66 to recover, collect, apportion into loads, and haul the purgewater that is drawn from wells at the PHILLIPS 66 facility indicated below and to deliver that purgewater to BLAINE TECH for temporarily holding. Transport routing of the purgewater may be direct from one PHILLIPS 66 facility to BLAINE TECH; from one PHILLIPS 66 facility to BLAINE TECH via another PHILLIPS 66 facility; or any combination thereof. The well purgewater is and remains the property of PHILLIPS 66.

This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the PHILLIPS 66 facility described below:

1145925

Matt Davis

PHILLIPS 66 #

1300 W. 12th St

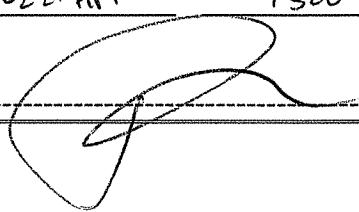
Street number

PHILLIPS 66 Project Manager

Vancouver WA

city

state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	1.0		/
MW-2	1.0		/
MW-4	1.0		/
MW-5A	1.2		/
MW-6	1.0		/
MW-7	1.0		/
MW-8	1.0		/
MW-9	1.0		/
MW-10	1.0		/
	/		/
added equip. rinse water	2.0	any other adjustments	/
TOTAL GALS.		loaded onto	
RECOVERED	<u>11.2</u>	BTS vehicle #	<u>88</u>
BTS event #	time	date	
191022-HPI	1500	10/27/19	
signature			

TEST EQUIPMENT CALIBRATION LOG

Appendix B

Laboratory Analytical Reports

November 13, 2019

Matthew Davis
GHD Services Inc.
3600 Port of Tacoma Road
Suite 302
Tacoma, WA 98424

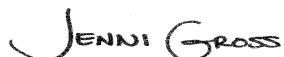
RE: Project: 11145925 P66/ 1300 W. 12th St.
Pace Project No.: 10496731

Dear Matthew Davis:

Enclosed are the analytical results for sample(s) received by the laboratory on October 24, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Rosemarie Borths, GHD Services Inc.
Jeffrey Cloud, GHD Services Inc.
Heather Gadwa, GHD
Eric Maise, GHD Services Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 11145925 P66/ 1300 W. 12th St.
Pace Project No.: 10496731

Minnesota Certification IDs

A2LA Certification #: 2926.01	Minnesota Dept of Ag Certification #: via MN 027-053-137
Alabama Certification #: 40770	Minnesota Petrofund Certification #: 1240
Alaska Contaminated Sites Certification #: 17-009	Mississippi Certification #: MN00064
Alaska DW Certification #: MN00064	Missouri Certification #: 10100
Arizona Certification #: AZ0014	Montana Certification #: CERT0092
Arkansas DW Certification #: MN00064	Nebraska Certification #: NE-OS-18-06
Arkansas WW Certification #: 88-0680	Nevada Certification #: MN00064
California Certification #: 2929	New Hampshire Certification #: 2081
CNMI Saipan Certification #: MP0003	New Jersey Certification #: MN002
Colorado Certification #: MN00064	New York Certification #: 11647
Connecticut Certification #: PH-0256	North Carolina DW Certification #: 27700
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137	North Carolina WW Certification #: 530
Florida Certification #: E87605	North Dakota Certification #: R-036
Georgia Certification #: 959	Ohio DW Certification #: 41244
Guam EPA Certification #: MN00064	Ohio VAP Certification #: CL101
Hawaii Certification #: MN00064	Oklahoma Certification #: 9507
Idaho Certification #: MN00064	Oregon Primary Certification #: MN300001
Illinois Certification #: 200011	Oregon Secondary Certification #: MN200001
Indiana Certification #: C-MN-01	Pennsylvania Certification #: 68-00563
Iowa Certification #: 368	Puerto Rico Certification #: MN00064
Kansas Certification #: E-10167	South Carolina Certification #: 74003001
Kentucky DW Certification #: 90062	Tennessee Certification #: TN02818
Kentucky WW Certification #: 90062	Texas Certification #: T104704192
Louisiana DEQ Certification #: 03086	Utah Certification #: MN00064
Louisiana DW Certification #: MN00064	Vermont Certification #: VT-027053137
Maine Certification #: MN00064	Virginia Certification #: 460163
Maryland Certification #: 322	Washington Certification #: C486
Massachusetts Certification #: M-MN064	West Virginia DEP Certification #: 382
Massachusetts DWP Certification #: via MN 027-053-137	West Virginia DW Certification #: 9952 C
Michigan Certification #: 9909	Wisconsin Certification #: 999407970
Minnesota Certification #: 027-053-137	Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 11145925 P66/ 1300 W. 12th St.
 Pace Project No.: 10496731

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10496731001	Dup-1	Water	10/22/19 12:00	10/24/19 08:45
10496731002	MW-1	Water	10/23/19 09:41	10/24/19 08:45
10496731003	MW-2	Water	10/22/19 14:53	10/24/19 08:45
10496731004	MW-4	Water	10/22/19 13:41	10/24/19 08:45
10496731005	MW-5A	Water	10/22/19 14:22	10/24/19 08:45
10496731006	MW-6	Water	10/23/19 10:15	10/24/19 08:45
10496731007	MW-7	Water	10/22/19 11:40	10/24/19 08:45
10496731008	MW-8	Water	10/22/19 11:00	10/24/19 08:45
10496731009	MW-9	Water	10/23/19 10:53	10/24/19 08:45
10496731010	MW-10	Water	10/23/19 09:09	10/24/19 08:45
10496731011	Trip Blank	Water	10/22/19 00:00	10/24/19 08:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 11145925 P66/ 1300 W. 12th St.
Pace Project No.: 10496731

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10496731001	Dup-1	NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	MM3	42	PASI-M
10496731002	MW-1	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
10496731003	MW-2	EPA 8260B	MM3	42	PASI-M
		NWTPH-Dx	EC2	4	PASI-M
10496731004	MW-4	NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	MM3	42	PASI-M
10496731005	MW-5A	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
10496731006	MW-6	EPA 8260B	MM3	42	PASI-M
		NWTPH-Dx	EC2	4	PASI-M
10496731007	MW-7	NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	MM3	42	PASI-M
10496731008	MW-8	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
10496731009	MW-9	EPA 8260B	MM3	42	PASI-M
		NWTPH-Dx	EC2	4	PASI-M
10496731010	MW-10	NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	MM3	42	PASI-M
10496731011	Trip Blank	NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	ML4	42	PASI-M

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Method: NWTPH-Dx

Description: NWTPH-Dx GCS LV

Client: GHD Services Inc

Date: November 13, 2019

General Information:

9 samples were analyzed for NWTPH-Dx. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA Mod. 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 11145925 P66/ 1300 W. 12th St.
Pace Project No.: 10496731

Method: NWTPH-Gx
Description: NWTPH-Gx GCV
Client: GHD Services Inc
Date: November 13, 2019

General Information:

11 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Method: **EPA 8260B**

Description: 8260B VOC

Client: GHD Services Inc

Date: November 13, 2019

General Information:

11 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- Trip Blank (Lab ID: 10496731011)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 642600

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10496899006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3461768)
 - Chloromethane
 - Hexachloro-1,3-butadiene
 - Vinyl chloride

QC Batch: 642766

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10496944003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3461379)
 - Hexachloro-1,3-butadiene

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PROJECT NARRATIVE

Project: 11145925 P66/ 1300 W. 12th St.
Pace Project No.: 10496731

Method: **EPA 8260B**
Description: 8260B VOC
Client: GHD Services Inc
Date: November 13, 2019

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: Dup-1	Lab ID: 10496731001	Collected: 10/22/19 12:00	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		11/05/19 23:53		
Surrogates								
a,a,a-Trifluorotoluene (S)	89	%.	50-150	1		11/05/19 23:53	98-08-8	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/01/19 00:29	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/01/19 00:29	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/01/19 00:29	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/01/19 00:29	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/01/19 00:29	75-35-4	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/01/19 00:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/01/19 00:29	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/01/19 00:29	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		11/01/19 00:29	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/01/19 00:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/01/19 00:29	106-46-7	
Benzene	ND	ug/L	1.0	1		11/01/19 00:29	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/01/19 00:29	75-27-4	
Bromoform	ND	ug/L	4.0	1		11/01/19 00:29	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/01/19 00:29	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		11/01/19 00:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/01/19 00:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/01/19 00:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/01/19 00:29	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/01/19 00:29	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/01/19 00:29	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/01/19 00:29	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/01/19 00:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/01/19 00:29	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/01/19 00:29	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		11/01/19 00:29	75-09-2	
Naphthalene	ND	ug/L	4.0	1		11/01/19 00:29	91-20-3	
Tetrachloroethene	4.4	ug/L	1.0	1		11/01/19 00:29	127-18-4	
Toluene	ND	ug/L	1.0	1		11/01/19 00:29	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		11/01/19 00:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/01/19 00:29	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		11/01/19 00:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/01/19 00:29	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/01/19 00:29	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/01/19 00:29	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		11/01/19 00:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/01/19 00:29	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/01/19 00:29	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/01/19 00:29	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%.	75-125	1		11/01/19 00:29	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	1		11/01/19 00:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.
 Pace Project No.: 10496731

Sample: Dup-1	Lab ID: 10496731001	Collected: 10/22/19 12:00	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Surrogates								
4-Bromofluorobenzene (S)	101	%.	75-125	1		11/01/19 00:29	460-00-4	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-1	Lab ID: 10496731002	Collected: 10/23/19 09:41	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	ug/L	476	1	10/24/19 18:56	10/28/19 15:42	68334-30-5	
Motor Oil Range	ND	ug/L	476	1	10/24/19 18:56	10/28/19 15:42		
Surrogates								
o-Terphenyl (S)	69	%.	50-150	1	10/24/19 18:56	10/28/19 15:42	84-15-1	
n-Triacontane (S)	71	%.	50-150	1	10/24/19 18:56	10/28/19 15:42	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		11/06/19 21:06		
Surrogates								
a,a,a-Trifluorotoluene (S)	85	%.	50-150	1		11/06/19 21:06	98-08-8	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/04/19 14:43	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/04/19 14:43	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/04/19 14:43	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/04/19 14:43	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/04/19 14:43	75-35-4	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/04/19 14:43	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/04/19 14:43	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/04/19 14:43	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		11/04/19 14:43	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/04/19 14:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/04/19 14:43	106-46-7	
Benzene	ND	ug/L	1.0	1		11/04/19 14:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/04/19 14:43	75-27-4	
Bromoform	ND	ug/L	4.0	1		11/04/19 14:43	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/04/19 14:43	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		11/04/19 14:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/04/19 14:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/04/19 14:43	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/04/19 14:43	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/04/19 14:43	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/04/19 14:43	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/04/19 14:43	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/04/19 14:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/04/19 14:43	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/04/19 14:43	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		11/04/19 14:43	75-09-2	
Naphthalene	ND	ug/L	4.0	1		11/04/19 14:43	91-20-3	
Tetrachloroethene	2.0	ug/L	1.0	1		11/04/19 14:43	127-18-4	
Toluene	ND	ug/L	1.0	1		11/04/19 14:43	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		11/04/19 14:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/04/19 14:43	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		11/04/19 14:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/04/19 14:43	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/04/19 14:43	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/04/19 14:43	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-1	Lab ID: 10496731002	Collected: 10/23/19 09:41	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC		Analytical Method: EPA 8260B						
m&p-Xylene	ND	ug/L	2.0	1		11/04/19 14:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/04/19 14:43	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/04/19 14:43	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/04/19 14:43	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	85	%.	75-125	1		11/04/19 14:43	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		11/04/19 14:43	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1		11/04/19 14:43	460-00-4	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-2	Lab ID: 10496731003	Collected: 10/22/19 14:53	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	ug/L	476	1	10/24/19 18:56	10/28/19 14:56	68334-30-5	
Motor Oil Range	ND	ug/L	476	1	10/24/19 18:56	10/28/19 14:56		
Surrogates								
o-Terphenyl (S)	79	%.	50-150	1	10/24/19 18:56	10/28/19 14:56	84-15-1	
n-Tricontane (S)	83	%.	50-150	1	10/24/19 18:56	10/28/19 14:56	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		11/05/19 22:12		
Surrogates								
a,a,a-Trifluorotoluene (S)	86	%.	50-150	1		11/05/19 22:12	98-08-8	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/19 22:30	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/19 22:30	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/19 22:30	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/19 22:30	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/19 22:30	75-35-4	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/19 22:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/19 22:30	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/19 22:30	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/31/19 22:30	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/19 22:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/19 22:30	106-46-7	
Benzene	ND	ug/L	1.0	1		10/31/19 22:30	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/19 22:30	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/31/19 22:30	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/31/19 22:30	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/19 22:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/19 22:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/19 22:30	75-00-3	
Chloroform	1.7	ug/L	1.0	1		10/31/19 22:30	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/31/19 22:30	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/31/19 22:30	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/19 22:30	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/19 22:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/19 22:30	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/19 22:30	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		10/31/19 22:30	75-09-2	
Naphthalene	ND	ug/L	4.0	1		10/31/19 22:30	91-20-3	
Tetrachloroethene	2.1	ug/L	1.0	1		10/31/19 22:30	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/19 22:30	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		10/31/19 22:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/19 22:30	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		10/31/19 22:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/19 22:30	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/19 22:30	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/31/19 22:30	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-2	Lab ID: 10496731003	Collected: 10/22/19 14:53	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
m&p-Xylene	ND	ug/L	2.0	1		10/31/19 22:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/31/19 22:30	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/19 22:30	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/31/19 22:30	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%.	75-125	1		10/31/19 22:30	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		10/31/19 22:30	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1		10/31/19 22:30	460-00-4	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-4	Lab ID: 10496731004	Collected: 10/22/19 13:41	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	ug/L	500	1	10/24/19 18:56	10/28/19 15:08	68334-30-5	
Motor Oil Range	ND	ug/L	500	1	10/24/19 18:56	10/28/19 15:08		
Surrogates								
o-Terphenyl (S)	80	%.	50-150	1	10/24/19 18:56	10/28/19 15:08	84-15-1	
n-Triacontane (S)	78	%.	50-150	1	10/24/19 18:56	10/28/19 15:08	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		11/05/19 22:28		
Surrogates								
a,a,a-Trifluorotoluene (S)	86	%.	50-150	1		11/05/19 22:28	98-08-8	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/19 22:47	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/19 22:47	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/19 22:47	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/19 22:47	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/19 22:47	75-35-4	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/19 22:47	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/19 22:47	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/19 22:47	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/31/19 22:47	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/19 22:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/19 22:47	106-46-7	
Benzene	ND	ug/L	1.0	1		10/31/19 22:47	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/19 22:47	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/31/19 22:47	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/31/19 22:47	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/19 22:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/19 22:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/19 22:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/31/19 22:47	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/31/19 22:47	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/31/19 22:47	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/19 22:47	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/19 22:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/19 22:47	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/19 22:47	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		10/31/19 22:47	75-09-2	
Naphthalene	ND	ug/L	4.0	1		10/31/19 22:47	91-20-3	
Tetrachloroethene	4.6	ug/L	1.0	1		10/31/19 22:47	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/19 22:47	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		10/31/19 22:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/19 22:47	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		10/31/19 22:47	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/19 22:47	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/19 22:47	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/31/19 22:47	10061-01-5	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-4	Lab ID: 10496731004	Collected: 10/22/19 13:41	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
m&p-Xylene	ND	ug/L	2.0	1		10/31/19 22:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/31/19 22:47	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/19 22:47	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/31/19 22:47	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%.	75-125	1		10/31/19 22:47	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	1		10/31/19 22:47	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		10/31/19 22:47	460-00-4	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.
Pace Project No.: 10496731

Sample: MW-5A	Lab ID: 10496731005	Collected: 10/22/19 14:22	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	ug/L	476	1	10/24/19 18:56	10/28/19 15:19	68334-30-5	
Motor Oil Range	ND	ug/L	476	1	10/24/19 18:56	10/28/19 15:19		
Surrogates								
o-Terphenyl (S)	52	%.	50-150	1	10/24/19 18:56	10/28/19 15:19	84-15-1	
n-Triacontane (S)	59	%.	50-150	1	10/24/19 18:56	10/28/19 15:19	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		11/05/19 22:45		
Surrogates								
a,a,a-Trifluorotoluene (S)	88	%.	50-150	1		11/05/19 22:45	98-08-8	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/19 23:04	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/19 23:04	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/19 23:04	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/19 23:04	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/19 23:04	75-35-4	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/19 23:04	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/19 23:04	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/19 23:04	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/31/19 23:04	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/19 23:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/19 23:04	106-46-7	
Benzene	ND	ug/L	1.0	1		10/31/19 23:04	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/19 23:04	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/31/19 23:04	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/31/19 23:04	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/19 23:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/19 23:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/19 23:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/31/19 23:04	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/31/19 23:04	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/31/19 23:04	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/19 23:04	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/19 23:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/19 23:04	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/19 23:04	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		10/31/19 23:04	75-09-2	
Naphthalene	ND	ug/L	4.0	1		10/31/19 23:04	91-20-3	
Tetrachloroethene	6.0	ug/L	1.0	1		10/31/19 23:04	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/19 23:04	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		10/31/19 23:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/19 23:04	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		10/31/19 23:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/19 23:04	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/19 23:04	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/31/19 23:04	10061-01-5	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-5A	Lab ID: 10496731005	Collected: 10/22/19 14:22	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
m&p-Xylene	ND	ug/L	2.0	1		10/31/19 23:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/31/19 23:04	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/19 23:04	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/31/19 23:04	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%.	75-125	1		10/31/19 23:04	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1		10/31/19 23:04	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		10/31/19 23:04	460-00-4	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.
Pace Project No.: 10496731

Sample: MW-6	Lab ID: 10496731006	Collected: 10/23/19 10:15	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	ug/L	500	1	10/24/19 18:56	10/28/19 15:54	68334-30-5	
Motor Oil Range	ND	ug/L	500	1	10/24/19 18:56	10/28/19 15:54		
Surrogates								
o-Terphenyl (S)	68	%.	50-150	1	10/24/19 18:56	10/28/19 15:54	84-15-1	
n-Triacontane (S)	76	%.	50-150	1	10/24/19 18:56	10/28/19 15:54	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		11/06/19 21:39		
Surrogates								
a,a,a-Trifluorotoluene (S)	87	%.	50-150	1		11/06/19 21:39	98-08-8	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/04/19 15:00	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/04/19 15:00	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/04/19 15:00	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/04/19 15:00	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/04/19 15:00	75-35-4	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/04/19 15:00	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/04/19 15:00	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/04/19 15:00	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		11/04/19 15:00	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/04/19 15:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/04/19 15:00	106-46-7	
Benzene	ND	ug/L	1.0	1		11/04/19 15:00	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/04/19 15:00	75-27-4	
Bromoform	ND	ug/L	4.0	1		11/04/19 15:00	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/04/19 15:00	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		11/04/19 15:00	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/04/19 15:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/04/19 15:00	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/04/19 15:00	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/04/19 15:00	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/04/19 15:00	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/04/19 15:00	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/04/19 15:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/04/19 15:00	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/04/19 15:00	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		11/04/19 15:00	75-09-2	
Naphthalene	ND	ug/L	4.0	1		11/04/19 15:00	91-20-3	
Tetrachloroethene	ND	ug/L	1.0	1		11/04/19 15:00	127-18-4	
Toluene	ND	ug/L	1.0	1		11/04/19 15:00	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		11/04/19 15:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/04/19 15:00	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		11/04/19 15:00	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/04/19 15:00	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/04/19 15:00	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/04/19 15:00	10061-01-5	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-6	Lab ID: 10496731006	Collected: 10/23/19 10:15	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
m&p-Xylene	ND	ug/L	2.0	1		11/04/19 15:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/04/19 15:00	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/04/19 15:00	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/04/19 15:00	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	86	%.	75-125	1		11/04/19 15:00	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		11/04/19 15:00	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1		11/04/19 15:00	460-00-4	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-7	Lab ID: 10496731007	Collected: 10/22/19 11:40	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	ug/L	385	1	10/24/19 18:56	10/28/19 15:31	68334-30-5	
Motor Oil Range	ND	ug/L	385	1	10/24/19 18:56	10/28/19 15:31		
Surrogates								
o-Terphenyl (S)	78	%.	50-150	1	10/24/19 18:56	10/28/19 15:31	84-15-1	
n-Tricontane (S)	88	%.	50-150	1	10/24/19 18:56	10/28/19 15:31	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		11/05/19 23:02		
Surrogates								
a,a,a-Trifluorotoluene (S)	91	%.	50-150	1		11/05/19 23:02	98-08-8	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/19 23:20	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/31/19 23:20	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/19 23:20	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/31/19 23:20	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/31/19 23:20	75-35-4	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/19 23:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/31/19 23:20	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/19 23:20	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/31/19 23:20	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/31/19 23:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/19 23:20	106-46-7	
Benzene	ND	ug/L	1.0	1		10/31/19 23:20	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/19 23:20	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/31/19 23:20	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/31/19 23:20	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/19 23:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/31/19 23:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/19 23:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/31/19 23:20	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/31/19 23:20	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/31/19 23:20	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/31/19 23:20	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/31/19 23:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/31/19 23:20	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/31/19 23:20	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		10/31/19 23:20	75-09-2	
Naphthalene	ND	ug/L	4.0	1		10/31/19 23:20	91-20-3	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/19 23:20	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/19 23:20	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		10/31/19 23:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/19 23:20	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		10/31/19 23:20	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/31/19 23:20	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/19 23:20	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/31/19 23:20	10061-01-5	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-7	Lab ID: 10496731007	Collected: 10/22/19 11:40	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
m&p-Xylene	ND	ug/L	2.0	1		10/31/19 23:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/31/19 23:20	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/31/19 23:20	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/31/19 23:20	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%.	75-125	1		10/31/19 23:20	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1		10/31/19 23:20	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		10/31/19 23:20	460-00-4	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-8	Lab ID: 10496731008	Collected: 10/22/19 11:00	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	ug/L	455	1	10/24/19 18:56	10/28/19 16:05	68334-30-5	
Motor Oil Range	ND	ug/L	455	1	10/24/19 18:56	10/28/19 16:05		
Surrogates								
o-Terphenyl (S)	63	%.	50-150	1	10/24/19 18:56	10/28/19 16:05	84-15-1	
n-Triacontane (S)	72	%.	50-150	1	10/24/19 18:56	10/28/19 16:05	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		11/05/19 23:19		
Surrogates								
a,a,a-Trifluorotoluene (S)	87	%.	50-150	1		11/05/19 23:19	98-08-8	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/01/19 00:12	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/01/19 00:12	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/01/19 00:12	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/01/19 00:12	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/01/19 00:12	75-35-4	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/01/19 00:12	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/01/19 00:12	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/01/19 00:12	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		11/01/19 00:12	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/01/19 00:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/01/19 00:12	106-46-7	
Benzene	ND	ug/L	1.0	1		11/01/19 00:12	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/01/19 00:12	75-27-4	
Bromoform	ND	ug/L	4.0	1		11/01/19 00:12	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/01/19 00:12	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		11/01/19 00:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/01/19 00:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/01/19 00:12	75-00-3	
Chloroform	1.0	ug/L	1.0	1		11/01/19 00:12	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/01/19 00:12	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/01/19 00:12	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/01/19 00:12	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/01/19 00:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/01/19 00:12	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/01/19 00:12	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		11/01/19 00:12	75-09-2	
Naphthalene	ND	ug/L	4.0	1		11/01/19 00:12	91-20-3	
Tetrachloroethene	ND	ug/L	1.0	1		11/01/19 00:12	127-18-4	
Toluene	ND	ug/L	1.0	1		11/01/19 00:12	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		11/01/19 00:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/01/19 00:12	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		11/01/19 00:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/01/19 00:12	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/01/19 00:12	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/01/19 00:12	10061-01-5	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-8	Lab ID: 10496731008	Collected: 10/22/19 11:00	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
m&p-Xylene	ND	ug/L	2.0	1		11/01/19 00:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/01/19 00:12	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/01/19 00:12	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/01/19 00:12	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%.	75-125	1		11/01/19 00:12	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1		11/01/19 00:12	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1		11/01/19 00:12	460-00-4	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-9	Lab ID: 10496731009	Collected: 10/23/19 10:53	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	ug/L	588	1	10/24/19 18:56	10/28/19 16:17	68334-30-5	
Motor Oil Range	ND	ug/L	588	1	10/24/19 18:56	10/28/19 16:17		
Surrogates								
o-Terphenyl (S)	61	%.	50-150	1	10/24/19 18:56	10/28/19 16:17	84-15-1	
n-Triacontane (S)	63	%.	50-150	1	10/24/19 18:56	10/28/19 16:17	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		11/06/19 21:56		
Surrogates								
a,a,a-Trifluorotoluene (S)	89	%.	50-150	1		11/06/19 21:56	98-08-8	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/04/19 15:17	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/04/19 15:17	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/04/19 15:17	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/04/19 15:17	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/04/19 15:17	75-35-4	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/04/19 15:17	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/04/19 15:17	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/04/19 15:17	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		11/04/19 15:17	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/04/19 15:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/04/19 15:17	106-46-7	
Benzene	ND	ug/L	1.0	1		11/04/19 15:17	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/04/19 15:17	75-27-4	
Bromoform	ND	ug/L	4.0	1		11/04/19 15:17	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/04/19 15:17	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		11/04/19 15:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/04/19 15:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/04/19 15:17	75-00-3	
Chloroform	2.5	ug/L	1.0	1		11/04/19 15:17	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/04/19 15:17	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/04/19 15:17	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/04/19 15:17	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/04/19 15:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/04/19 15:17	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/04/19 15:17	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		11/04/19 15:17	75-09-2	
Naphthalene	ND	ug/L	4.0	1		11/04/19 15:17	91-20-3	
Tetrachloroethene	2.1	ug/L	1.0	1		11/04/19 15:17	127-18-4	
Toluene	ND	ug/L	1.0	1		11/04/19 15:17	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		11/04/19 15:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/04/19 15:17	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		11/04/19 15:17	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/04/19 15:17	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/04/19 15:17	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/04/19 15:17	10061-01-5	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-9	Lab ID: 10496731009	Collected: 10/23/19 10:53	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
m&p-Xylene	ND	ug/L	2.0	1		11/04/19 15:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/04/19 15:17	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/04/19 15:17	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/04/19 15:17	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	85	%.	75-125	1		11/04/19 15:17	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		11/04/19 15:17	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		11/04/19 15:17	460-00-4	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.
Pace Project No.: 10496731

Sample: MW-10	Lab ID: 10496731010	Collected: 10/23/19 09:09	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range	ND	ug/L	526	1	10/24/19 18:56	10/28/19 16:28	68334-30-5	
Motor Oil Range	ND	ug/L	526	1	10/24/19 18:56	10/28/19 16:28		
Surrogates								
o-Terphenyl (S)	56	%.	50-150	1	10/24/19 18:56	10/28/19 16:28	84-15-1	
n-Triacontane (S)	53	%.	50-150	1	10/24/19 18:56	10/28/19 16:28	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		11/06/19 22:13		
Surrogates								
a,a,a-Trifluorotoluene (S)	88	%.	50-150	1		11/06/19 22:13	98-08-8	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/04/19 15:34	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/04/19 15:34	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/04/19 15:34	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/04/19 15:34	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/04/19 15:34	75-35-4	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/04/19 15:34	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/04/19 15:34	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/04/19 15:34	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		11/04/19 15:34	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/04/19 15:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/04/19 15:34	106-46-7	
Benzene	ND	ug/L	1.0	1		11/04/19 15:34	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/04/19 15:34	75-27-4	
Bromoform	ND	ug/L	4.0	1		11/04/19 15:34	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/04/19 15:34	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		11/04/19 15:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/04/19 15:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/04/19 15:34	75-00-3	
Chloroform	1.9	ug/L	1.0	1		11/04/19 15:34	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/04/19 15:34	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/04/19 15:34	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/04/19 15:34	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/04/19 15:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/04/19 15:34	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/04/19 15:34	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		11/04/19 15:34	75-09-2	
Naphthalene	ND	ug/L	4.0	1		11/04/19 15:34	91-20-3	
Tetrachloroethene	1.8	ug/L	1.0	1		11/04/19 15:34	127-18-4	
Toluene	ND	ug/L	1.0	1		11/04/19 15:34	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		11/04/19 15:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/04/19 15:34	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		11/04/19 15:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/04/19 15:34	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/04/19 15:34	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/04/19 15:34	10061-01-5	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: MW-10	Lab ID: 10496731010	Collected: 10/23/19 09:09	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
m&p-Xylene	ND	ug/L	2.0	1		11/04/19 15:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/04/19 15:34	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/04/19 15:34	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/04/19 15:34	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	86	%.	75-125	1		11/04/19 15:34	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		11/04/19 15:34	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1		11/04/19 15:34	460-00-4	

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Sample: Trip Blank	Lab ID: 10496731011	Collected: 10/22/19 00:00	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		11/05/19 23:36		
Surrogates								
a,a,a-Trifluorotoluene (S)	88	%.	50-150	1		11/05/19 23:36	98-08-8	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/03/19 15:25	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/03/19 15:25	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/03/19 15:25	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/03/19 15:25	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/03/19 15:25	75-35-4	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/03/19 15:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/03/19 15:25	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/03/19 15:25	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		11/03/19 15:25	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/03/19 15:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/03/19 15:25	106-46-7	
Benzene	ND	ug/L	1.0	1		11/03/19 15:25	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/03/19 15:25	75-27-4	
Bromoform	ND	ug/L	4.0	1		11/03/19 15:25	75-25-2	
Bromomethane	ND	ug/L	4.0	1		11/03/19 15:25	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		11/03/19 15:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/03/19 15:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/03/19 15:25	75-00-3	
Chloroform	ND	ug/L	4.0	1		11/03/19 15:25	67-66-3	
Chloromethane	ND	ug/L	4.0	1		11/03/19 15:25	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/03/19 15:25	124-48-1	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/03/19 15:25	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		11/03/19 15:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/03/19 15:25	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/03/19 15:25	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		11/03/19 15:25	75-09-2	
Naphthalene	ND	ug/L	4.0	1		11/03/19 15:25	91-20-3	
Tetrachloroethene	ND	ug/L	1.0	1		11/03/19 15:25	127-18-4	
Toluene	ND	ug/L	1.0	1		11/03/19 15:25	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		11/03/19 15:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/03/19 15:25	75-69-4	L2
Vinyl chloride	ND	ug/L	0.20	1		11/03/19 15:25	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/03/19 15:25	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/03/19 15:25	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		11/03/19 15:25	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		11/03/19 15:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/19 15:25	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/03/19 15:25	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		11/03/19 15:25	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%.	75-125	1		11/03/19 15:25	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	1		11/03/19 15:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11145925 P66/ 1300 W. 12th St.
 Pace Project No.: 10496731

Sample: Trip Blank	Lab ID: 10496731011	Collected: 10/22/19 00:00	Received: 10/24/19 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Surrogates								
4-Bromofluorobenzene (S)	104	%.	75-125	1		11/03/19 15:25	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

QC Batch:	642991	Analysis Method:	NWTPH-Gx		
QC Batch Method:	NWTPH-Gx	Analysis Description:	NWTPH-Gx Water		
Associated Lab Samples:	10496731001, 10496731003, 10496731004, 10496731005, 10496731007, 10496731008, 10496731011				

METHOD BLANK:	3462233	Matrix:	Water		
Associated Lab Samples:	10496731001, 10496731003, 10496731004, 10496731005, 10496731007, 10496731008, 10496731011				

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	11/05/19 21:55	
a,a,a-Trifluorotoluene (S)	%.	92	50-150	11/05/19 21:55	

LABORATORY CONTROL SAMPLE & LCSD:	3462235	3462236							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
TPH as Gas	ug/L	1000	941	872	94	87	75-125	8	20
a,a,a-Trifluorotoluene (S)	%.				101	95	50-150		

SAMPLE DUPLICATE:	3463049	10496731003	Dup Result	RPD	Max RPD	Qualifiers
Parameter	Units	Result				
TPH as Gas	ug/L	ND	ND		30	H1
a,a,a-Trifluorotoluene (S)	%.	86	87			

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

QC Batch:	643418	Analysis Method:	NWTPH-Gx
QC Batch Method:	NWTPH-Gx	Analysis Description:	NWTPH-Gx Water
Associated Lab Samples:	10496731002, 10496731006, 10496731009, 10496731010		

METHOD BLANK: 3464210 Matrix: Water

Associated Lab Samples: 10496731002, 10496731006, 10496731009, 10496731010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	11/06/19 20:49	
a,a,a-Trifluorotoluene (S)	%.	87	50-150	11/06/19 20:49	

LABORATORY CONTROL SAMPLE & LCSD: 3464212 3464213

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	875	910	88	91	75-125	4	20	
a,a,a-Trifluorotoluene (S)	%.				96	97	50-150			

SAMPLE DUPLICATE: 3464276

Parameter	Units	10496731002 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	ND	ND		30	
a,a,a-Trifluorotoluene (S)	%.	85	86			

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

QC Batch:	642287	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV 465 W
Associated Lab Samples:	10496731001, 10496731003, 10496731004, 10496731005, 10496731007, 10496731008		

METHOD BLANK: 3458638	Matrix: Water
Associated Lab Samples:	10496731001, 10496731003, 10496731004, 10496731005, 10496731007, 10496731008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	10/31/19 20:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/31/19 20:14	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/31/19 20:14	
1,1-Dichloroethane	ug/L	ND	1.0	10/31/19 20:14	
1,1-Dichloroethene	ug/L	ND	1.0	10/31/19 20:14	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/31/19 20:14	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/31/19 20:14	
1,2-Dichloroethane	ug/L	ND	1.0	10/31/19 20:14	
1,2-Dichloropropane	ug/L	ND	4.0	10/31/19 20:14	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/31/19 20:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/31/19 20:14	
Benzene	ug/L	ND	1.0	10/31/19 20:14	
Bromodichloromethane	ug/L	ND	1.0	10/31/19 20:14	
Bromoform	ug/L	ND	4.0	10/31/19 20:14	
Bromomethane	ug/L	ND	4.0	10/31/19 20:14	
Carbon tetrachloride	ug/L	ND	1.0	10/31/19 20:14	
Chlorobenzene	ug/L	ND	1.0	10/31/19 20:14	
Chloroethane	ug/L	ND	1.0	10/31/19 20:14	
Chloroform	ug/L	ND	1.0	10/31/19 20:14	
Chloromethane	ug/L	ND	4.0	10/31/19 20:14	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/31/19 20:14	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/31/19 20:14	
Dibromochloromethane	ug/L	ND	1.0	10/31/19 20:14	
Dichlorodifluoromethane	ug/L	ND	1.0	10/31/19 20:14	
Ethylbenzene	ug/L	ND	1.0	10/31/19 20:14	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/31/19 20:14	
m&p-Xylene	ug/L	ND	2.0	10/31/19 20:14	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/31/19 20:14	
Methylene Chloride	ug/L	ND	4.0	10/31/19 20:14	
Naphthalene	ug/L	ND	4.0	10/31/19 20:14	
o-Xylene	ug/L	ND	1.0	10/31/19 20:14	
Tetrachloroethene	ug/L	ND	1.0	10/31/19 20:14	
Toluene	ug/L	ND	1.0	10/31/19 20:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/31/19 20:14	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/31/19 20:14	
Trichloroethene	ug/L	ND	0.40	10/31/19 20:14	
Trichlorofluoromethane	ug/L	ND	1.0	10/31/19 20:14	
Vinyl chloride	ug/L	ND	0.20	10/31/19 20:14	
Xylene (Total)	ug/L	ND	3.0	10/31/19 20:14	
1,2-Dichloroethane-d4 (S)	%.	89	75-125	10/31/19 20:14	
4-Bromofluorobenzene (S)	%.	102	75-125	10/31/19 20:14	

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

METHOD BLANK: 3458638

Matrix: Water

Associated Lab Samples: 10496731001, 10496731003, 10496731004, 10496731005, 10496731007, 10496731008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene-d8 (S)	%.	99	75-125	10/31/19 20:14	

LABORATORY CONTROL SAMPLE: 3458639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	10	9.5	95	75-125	
1,1,2,2-Tetrachloroethane	ug/L	10	10.6	106	71-128	
1,1,2-Trichloroethane	ug/L	10	9.8	98	75-125	
1,1-Dichloroethane	ug/L	10	10	100	75-125	
1,1-Dichloroethene	ug/L	10	9.0	90	69-125	
1,2-Dibromoethane (EDB)	ug/L	10	9.2	92	75-125	
1,2-Dichlorobenzene	ug/L	10	9.9	99	75-125	
1,2-Dichloroethane	ug/L	10	8.8	88	71-125	
1,2-Dichloropropane	ug/L	10	9.6	96	72-125	
1,3-Dichlorobenzene	ug/L	10	10.1	101	75-125	
1,4-Dichlorobenzene	ug/L	10	9.7	97	75-125	
Benzene	ug/L	10	10	100	75-125	
Bromodichloromethane	ug/L	10	8.8	88	75-125	
Bromoform	ug/L	10	8.9	89	74-125	
Bromomethane	ug/L	10	7.1	71	30-150	
Carbon tetrachloride	ug/L	10	9.2	92	70-125	
Chlorobenzene	ug/L	10	9.8	98	75-125	
Chloroethane	ug/L	10	10.3	103	64-129	
Chloroform	ug/L	10	9.5	95	75-125	
Chloromethane	ug/L	10	8.5	85	67-125	
cis-1,2-Dichloroethene	ug/L	10	10.1	101	73-125	
cis-1,3-Dichloropropene	ug/L	10	9.1	91	75-125	
Dibromochloromethane	ug/L	10	8.8	88	75-125	
Dichlorodifluoromethane	ug/L	10	9.2	92	65-129	
Ethylbenzene	ug/L	10	9.6	96	75-125	
Hexachloro-1,3-butadiene	ug/L	10	9.1	91	66-137	
m&p-Xylene	ug/L	20	17.9	90	75-125	
Methyl-tert-butyl ether	ug/L	10	9.0	90	75-125	
Methylene Chloride	ug/L	10	9.2	92	72-125	
Naphthalene	ug/L	10	8.5	85	63-125	
o-Xylene	ug/L	10	9.6	96	75-125	
Tetrachloroethene	ug/L	10	9.3	93	75-125	
Toluene	ug/L	10	9.7	97	75-125	
trans-1,2-Dichloroethene	ug/L	10	9.5	95	70-125	
trans-1,3-Dichloropropene	ug/L	10	8.3	83	75-125	
Trichloroethene	ug/L	10	10.5	105	74-125	
Trichlorofluoromethane	ug/L	10	8.8	88	74-125	
Vinyl chloride	ug/L	10	10.8	108	71-125	
Xylene (Total)	ug/L	30	27.5	92	75-125	

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

LABORATORY CONTROL SAMPLE: 3458639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%. %			92	75-125	
4-Bromofluorobenzene (S)	%. %			99	75-125	
Toluene-d8 (S)	%. %			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3458809 3458810

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10496721008	Result	Spike Conc.	Conc.						
1,1,1-Trichloroethane	ug/L	ND	10	10	11.1	11.0	111	110	30-150	1	30
1,1,2,2-Tetrachloroethane	ug/L	ND	10	10	9.5	10.2	95	102	30-150	6	30
1,1,2-Trichloroethane	ug/L	ND	10	10	9.2	9.5	92	95	30-150	3	30
1,1-Dichloroethane	ug/L	ND	10	10	10.1	10.4	101	104	30-150	3	30
1,1-Dichloroethene	ug/L	ND	10	10	11.2	11.2	112	112	30-150	0	30
1,2-Dibromoethane (EDB)	ug/L	ND	10	10	8.7	9.1	87	91	30-150	4	30
1,2-Dichlorobenzene	ug/L	ND	10	10	9.9	10.3	99	103	30-150	4	30
1,2-Dichloroethane	ug/L	ND	10	10	8.4	8.6	84	86	30-150	2	30
1,2-Dichloropropane	ug/L	ND	10	10	9.1	9.5	91	95	30-150	4	30
1,3-Dichlorobenzene	ug/L	ND	10	10	10.0	10.6	100	106	30-150	6	30
1,4-Dichlorobenzene	ug/L	ND	10	10	9.8	10.1	98	101	30-150	3	30
Benzene	ug/L	ND	10	10	10.3	10.4	103	104	30-150	0	30
Bromodichloromethane	ug/L	ND	10	10	8.9	9.0	89	90	30-150	1	30
Bromoform	ug/L	ND	10	10	8.1	8.3	81	83	30-150	3	30
Bromomethane	ug/L	ND	10	10	7.3	8.1	73	81	30-150	11	30
Carbon tetrachloride	ug/L	ND	10	10	12.0	11.6	120	116	30-150	3	30
Chlorobenzene	ug/L	ND	10	10	10	10.0	100	100	30-150	0	30
Chloroethane	ug/L	ND	10	10	11.6	13.2	116	132	30-150	13	30
Chloroform	ug/L	ND	10	10	9.5	9.5	90	90	30-150	0	30
Chloromethane	ug/L	ND	10	10	10.7	10.5	107	105	30-150	2	30
cis-1,2-Dichloroethene	ug/L	ND	10	10	10.5	10.2	105	102	30-150	3	30
cis-1,3-Dichloropropene	ug/L	ND	10	10	8.9	9.0	89	90	30-145	1	30
Dibromochloromethane	ug/L	ND	10	10	8.4	8.6	84	86	30-150	1	30
Dichlorodifluoromethane	ug/L	ND	10	10	11.1	11.2	111	112	30-150	1	30
Ethylbenzene	ug/L	ND	10	10	10.3	10.5	103	105	30-150	2	30
Hexachloro-1,3-butadiene	ug/L	ND	10	10	11.9	11.7	119	117	30-150	2	30
m&p-Xylene	ug/L	ND	20	20	18.8	19.4	94	97	30-150	3	30
Methyl-tert-butyl ether	ug/L	ND	10	10	8.4	8.7	84	87	30-150	4	30
Methylene Chloride	ug/L	ND	10	10	9.3	9.3	93	93	30-146	0	30
Naphthalene	ug/L	ND	10	10	8.4	9.2	84	92	30-150	9	30
o-Xylene	ug/L	ND	10	10	9.5	10	95	100	30-150	5	30
Tetrachloroethene	ug/L	ND	10	10	11.1	11.1	111	111	30-150	0	30
Toluene	ug/L	ND	10	10	10.2	10.2	101	101	30-150	0	30
trans-1,2-Dichloroethene	ug/L	ND	10	10	10.6	10.3	106	103	30-150	2	30
trans-1,3-Dichloropropene	ug/L	ND	10	10	8.0	8.3	80	83	30-150	4	30
Trichloroethene	ug/L	ND	10	10	11.4	11.3	114	113	30-150	1	30
Trichlorofluoromethane	ug/L	ND	10	10	10.1	10	101	100	30-150	1	30

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3458809		3458810									
Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	Max		Qual
		10496721008	Spike Conc.	Spike Conc.	MS Result						RPD	RPD	
Vinyl chloride	ug/L	ND	10	10	11.5	11.5	115	115	115	30-150	1	30	
Xylene (Total)	ug/L	ND	30	30	28.3	29.4	94	94	98	30-150	4	30	
1,2-Dichloroethane-d4 (S)	%.						91	91	90	75-125			
4-Bromofluorobenzene (S)	%.						98	98	99	75-125			
Toluene-d8 (S)	%.						99	99	100	75-125			

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

QC Batch:	642600	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV 465 W
Associated Lab Samples:	10496731011		

METHOD BLANK: 3460701 Matrix: Water

Associated Lab Samples: 10496731011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/03/19 14:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/03/19 14:17	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/03/19 14:17	
1,1-Dichloroethane	ug/L	ND	1.0	11/03/19 14:17	
1,1-Dichloroethene	ug/L	ND	1.0	11/03/19 14:17	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/03/19 14:17	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/03/19 14:17	
1,2-Dichloroethane	ug/L	ND	1.0	11/03/19 14:17	
1,2-Dichloropropane	ug/L	ND	4.0	11/03/19 14:17	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/03/19 14:17	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/03/19 14:17	
Benzene	ug/L	ND	1.0	11/03/19 14:17	
Bromodichloromethane	ug/L	ND	1.0	11/03/19 14:17	
Bromoform	ug/L	ND	4.0	11/03/19 14:17	
Bromomethane	ug/L	ND	4.0	11/03/19 14:17	
Carbon tetrachloride	ug/L	ND	1.0	11/03/19 14:17	
Chlorobenzene	ug/L	ND	1.0	11/03/19 14:17	
Chloroethane	ug/L	ND	1.0	11/03/19 14:17	
Chloroform	ug/L	ND	4.0	11/03/19 14:17	MN
Chloromethane	ug/L	ND	4.0	11/03/19 14:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/03/19 14:17	
cis-1,3-Dichloropropene	ug/L	ND	4.0	11/03/19 14:17	
Dibromochloromethane	ug/L	ND	1.0	11/03/19 14:17	
Dichlorodifluoromethane	ug/L	ND	1.0	11/03/19 14:17	
Ethylbenzene	ug/L	ND	1.0	11/03/19 14:17	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/03/19 14:17	
m&p-Xylene	ug/L	ND	2.0	11/03/19 14:17	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/03/19 14:17	
Methylene Chloride	ug/L	ND	4.0	11/03/19 14:17	
Naphthalene	ug/L	ND	4.0	11/03/19 14:17	
o-Xylene	ug/L	ND	1.0	11/03/19 14:17	
Tetrachloroethene	ug/L	ND	1.0	11/03/19 14:17	
Toluene	ug/L	ND	1.0	11/03/19 14:17	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/03/19 14:17	
trans-1,3-Dichloropropene	ug/L	ND	4.0	11/03/19 14:17	
Trichloroethene	ug/L	ND	0.40	11/03/19 14:17	
Trichlorofluoromethane	ug/L	ND	1.0	11/03/19 14:17	
Vinyl chloride	ug/L	ND	0.20	11/03/19 14:17	
Xylene (Total)	ug/L	ND	3.0	11/03/19 14:17	
1,2-Dichloroethane-d4 (S)	%.	104	75-125	11/03/19 14:17	
4-Bromofluorobenzene (S)	%.	103	75-125	11/03/19 14:17	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

METHOD BLANK: 3460701

Matrix: Water

Associated Lab Samples: 10496731011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene-d8 (S)	%.	101	75-125	11/03/19 14:17	

LABORATORY CONTROL SAMPLE: 3460702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	10	9.6	96	75-125	
1,1,2,2-Tetrachloroethane	ug/L	10	9.1	91	71-128	
1,1,2-Trichloroethane	ug/L	10	9.3	93	75-125	
1,1-Dichloroethane	ug/L	10	10.6	106	75-125	
1,1-Dichloroethene	ug/L	10	10.1	101	69-125	
1,2-Dibromoethane (EDB)	ug/L	10	9.7	97	75-125	
1,2-Dichlorobenzene	ug/L	10	8.9	89	75-125	
1,2-Dichloroethane	ug/L	10	10.8	108	71-125	
1,2-Dichloropropane	ug/L	10	11.0	110	72-125	
1,3-Dichlorobenzene	ug/L	10	8.8	88	75-125	
1,4-Dichlorobenzene	ug/L	10	8.7	87	75-125	
Benzene	ug/L	10	10.4	104	75-125	
Bromodichloromethane	ug/L	10	9.4	94	75-125	
Bromoform	ug/L	10	9.3	93	74-125	
Bromomethane	ug/L	10	7.8	78	30-150	
Carbon tetrachloride	ug/L	10	9.3	93	70-125	
Chlorobenzene	ug/L	10	9.1	91	75-125	
Chloroethane	ug/L	10	7.9	79	64-129	
Chloroform	ug/L	10	10.6	106	75-125	
Chloromethane	ug/L	10	11.6	116	67-125	
cis-1,2-Dichloroethene	ug/L	10	10.2	102	73-125	
cis-1,3-Dichloropropene	ug/L	10	9.2	92	75-125	
Dibromochloromethane	ug/L	10	9.7	97	75-125	
Dichlorodifluoromethane	ug/L	10	6.8	68	65-129	
Ethylbenzene	ug/L	10	9.8	98	75-125	
Hexachloro-1,3-butadiene	ug/L	10	9.4	94	66-137	
m&p-Xylene	ug/L	20	19.8	99	75-125	
Methyl-tert-butyl ether	ug/L	10	9.4	94	75-125	
Methylene Chloride	ug/L	10	11.0	110	72-125	
Naphthalene	ug/L	10	7.4	74	63-125	
o-Xylene	ug/L	10	9.5	95	75-125	
Tetrachloroethene	ug/L	10	9.0	90	75-125	
Toluene	ug/L	10	9.6	96	75-125	
trans-1,2-Dichloroethene	ug/L	10	10.5	105	70-125	
trans-1,3-Dichloropropene	ug/L	10	9.5	95	75-125	
Trichloroethene	ug/L	10	9.6	96	74-125	
Trichlorofluoromethane	ug/L	10	7.3	73	74-125 L2	
Vinyl chloride	ug/L	10	9.2	92	71-125	
Xylene (Total)	ug/L	30	29.4	98	75-125	

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

LABORATORY CONTROL SAMPLE: 3460702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%. %			106	75-125	
4-Bromofluorobenzene (S)	%. %			104	75-125	
Toluene-d8 (S)	%. %			103	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461768 3461769

Parameter	Units	10496899006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.14	10	10	11.0	11.7	110	117	30-150	6	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.17	10	10	8.8	10.1	88	101	30-150	14	30	
1,1,2-Trichloroethane	ug/L	<0.18	10	10	9.5	10.6	95	106	30-150	11	30	
1,1-Dichloroethane	ug/L	<0.17	10	10	11.5	11.6	115	116	30-150	1	30	
1,1-Dichloroethene	ug/L	<0.16	10	10	12.7	12.6	127	126	30-150	1	30	
1,2-Dibromoethane (EDB)	ug/L	<0.24	10	10	9.5	10.3	95	103	30-150	8	30	
1,2-Dichlorobenzene	ug/L	<0.14	10	10	9.3	10	93	100	30-150	8	30	
1,2-Dichloroethane	ug/L	<0.22	10	10	10.9	11.6	109	116	30-150	6	30	
1,2-Dichloropropane	ug/L	<0.16	10	10	11.7	12.4	117	124	30-150	6	30	
1,3-Dichlorobenzene	ug/L	<0.16	10	10	9.3	10.1	93	101	30-150	8	30	
1,4-Dichlorobenzene	ug/L	<0.17	10	10	9.3	9.9	93	99	30-150	6	30	
Benzene	ug/L	<0.10	10	10	11.2	11.5	112	115	30-150	2	30	
Bromodichloromethane	ug/L	<0.22	10	10	9.6	10.4	96	104	30-150	8	30	
Bromoform	ug/L	<0.80	10	10	9.5	10.6	95	106	30-150	11	30	
Bromomethane	ug/L	<1.8	10	10	12.1	9.9	121	99	30-150	21	30	
Carbon tetrachloride	ug/L	<0.19	10	10	11.1	11.5	111	115	30-150	4	30	
Chlorobenzene	ug/L	<0.17	10	10	9.4	10.3	94	103	30-150	9	30	
Chloroethane	ug/L	<0.49	10	10	12.9	9.9	129	99	30-150	27	30	
Chloroform	ug/L	<0.49	10	10	10.7	10.8	107	108	30-150	1	30	
Chloromethane	ug/L	<0.48	10	10	18.7	14.7	187	147	30-150	24	30 M1	
cis-1,2-Dichloroethene	ug/L	<0.15	10	10	11.5	11.7	115	117	30-150	2	30	
cis-1,3-Dichloropropene	ug/L	<0.20	10	10	9.9	10.3	99	103	30-145	4	30	
Dibromochloromethane	ug/L	<0.46	10	10	9.7	10.3	97	103	30-150	6	30	
Dichlorodifluoromethane	ug/L	<0.23	10	10	13.7	10.8	137	108	30-150	23	30	
Ethylbenzene	ug/L	<0.14	10	10	10.3	11.1	103	111	30-150	8	30	
Hexachloro-1,3-butadiene	ug/L	<0.44	10	10	15.3	13.8	153	138	30-150	10	30 M1	
m&p-Xylene	ug/L	<0.31	20	20	20.5	22.6	103	113	30-150	9	30	
Methyl-tert-butyl ether	ug/L	<0.16	10	10	9.5	10.8	95	108	30-150	13	30	
Methylene Chloride	ug/L	<1.5	10	10	11.8	11.9	118	119	30-146	1	30	
Naphthalene	ug/L	<1.6	10	10	8.3	10.7	83	107	30-150	25	30	
o-Xylene	ug/L	<0.16	10	10	9.9	10.8	99	108	30-150	8	30	
Tetrachloroethene	ug/L	<0.17	10	10	10	10.8	100	108	30-150	7	30	
Toluene	ug/L	0.90J	10	10	10.2	10.9	93	100	30-150	6	30	
trans-1,2-Dichloroethene	ug/L	<0.24	10	10	12.2	12.1	122	121	30-150	1	30	
trans-1,3-Dichloropropene	ug/L	<0.18	10	10	9.6	10.8	96	108	30-150	11	30	
Trichloroethene	ug/L	<0.15	10	10	10.8	11.4	108	114	30-150	5	30	
Trichlorofluoromethane	ug/L	<0.23	10	10	14.1	10.8	141	108	30-150	27	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3461768		3461769									
Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	RPD	Max RPD	Max Qual
		10496899006	Spike Conc.	Spike Conc.	MS Result								
Vinyl chloride	ug/L	<0.092	10	10	15.9	12.1	159	121	30-150	27	30	M1	
Xylene (Total)	ug/L	<0.31	30	30	30.5	33.4	102	111	30-150	9	30		
1,2-Dichloroethane-d4 (S)	%.						104	106	75-125				
4-Bromofluorobenzene (S)	%.						105	102	75-125				
Toluene-d8 (S)	%.						101	103	75-125				

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

QC Batch:	642766	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV 465 W
Associated Lab Samples:	10496731002, 10496731006, 10496731009, 10496731010		

METHOD BLANK: 3461256 Matrix: Water

Associated Lab Samples: 10496731002, 10496731006, 10496731009, 10496731010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/04/19 12:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/04/19 12:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/04/19 12:27	
1,1-Dichloroethane	ug/L	ND	1.0	11/04/19 12:27	
1,1-Dichloroethene	ug/L	ND	1.0	11/04/19 12:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/04/19 12:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/04/19 12:27	
1,2-Dichloroethane	ug/L	ND	1.0	11/04/19 12:27	
1,2-Dichloropropane	ug/L	ND	4.0	11/04/19 12:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/04/19 12:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/04/19 12:27	
Benzene	ug/L	ND	1.0	11/04/19 12:27	
Bromodichloromethane	ug/L	ND	1.0	11/04/19 12:27	
Bromoform	ug/L	ND	4.0	11/04/19 12:27	
Bromomethane	ug/L	ND	4.0	11/04/19 12:27	
Carbon tetrachloride	ug/L	ND	1.0	11/04/19 12:27	
Chlorobenzene	ug/L	ND	1.0	11/04/19 12:27	
Chloroethane	ug/L	ND	1.0	11/04/19 12:27	
Chloroform	ug/L	ND	1.0	11/04/19 12:27	
Chloromethane	ug/L	ND	4.0	11/04/19 12:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/04/19 12:27	
cis-1,3-Dichloropropene	ug/L	ND	4.0	11/04/19 12:27	
Dibromochloromethane	ug/L	ND	1.0	11/04/19 12:27	
Dichlorodifluoromethane	ug/L	ND	1.0	11/04/19 12:27	
Ethylbenzene	ug/L	ND	1.0	11/04/19 12:27	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/04/19 12:27	
m&p-Xylene	ug/L	ND	2.0	11/04/19 12:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/04/19 12:27	
Methylene Chloride	ug/L	ND	4.0	11/04/19 12:27	
Naphthalene	ug/L	ND	4.0	11/04/19 12:27	
o-Xylene	ug/L	ND	1.0	11/04/19 12:27	
Tetrachloroethene	ug/L	ND	1.0	11/04/19 12:27	
Toluene	ug/L	ND	1.0	11/04/19 12:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/04/19 12:27	
trans-1,3-Dichloropropene	ug/L	ND	4.0	11/04/19 12:27	
Trichloroethene	ug/L	ND	0.40	11/04/19 12:27	
Trichlorofluoromethane	ug/L	ND	1.0	11/04/19 12:27	
Vinyl chloride	ug/L	ND	0.20	11/04/19 12:27	
Xylene (Total)	ug/L	ND	3.0	11/04/19 12:27	
1,2-Dichloroethane-d4 (S)	%.	84	75-125	11/04/19 12:27	
4-Bromofluorobenzene (S)	%.	101	75-125	11/04/19 12:27	

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REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

METHOD BLANK: 3461256

Matrix: Water

Associated Lab Samples: 10496731002, 10496731006, 10496731009, 10496731010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene-d8 (S)	%.	99	75-125	11/04/19 12:27	

LABORATORY CONTROL SAMPLE: 3461257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	10	9.8	98	75-125	
1,1,2,2-Tetrachloroethane	ug/L	10	10	100	71-128	
1,1,2-Trichloroethane	ug/L	10	9.7	97	75-125	
1,1-Dichloroethane	ug/L	10	10.2	102	75-125	
1,1-Dichloroethene	ug/L	10	10.8	108	69-125	
1,2-Dibromoethane (EDB)	ug/L	10	9.4	94	75-125	
1,2-Dichlorobenzene	ug/L	10	9.8	98	75-125	
1,2-Dichloroethane	ug/L	10	8.7	87	71-125	
1,2-Dichloropropane	ug/L	10	9.4	94	72-125	
1,3-Dichlorobenzene	ug/L	10	9.9	99	75-125	
1,4-Dichlorobenzene	ug/L	10	9.6	96	75-125	
Benzene	ug/L	10	10.4	104	75-125	
Bromodichloromethane	ug/L	10	8.5	85	75-125	
Bromoform	ug/L	10	8.9	89	74-125	
Bromomethane	ug/L	10	7.3	73	30-150	
Carbon tetrachloride	ug/L	10	10.3	103	70-125	
Chlorobenzene	ug/L	10	9.9	99	75-125	
Chloroethane	ug/L	10	9.6	96	64-129	
Chloroform	ug/L	10	9.4	94	75-125	
Chloromethane	ug/L	10	10.1	101	67-125	
cis-1,2-Dichloroethene	ug/L	10	10.5	105	73-125	
cis-1,3-Dichloropropene	ug/L	10	9.2	92	75-125	
Dibromochloromethane	ug/L	10	8.7	87	75-125	
Dichlorodifluoromethane	ug/L	10	9.2	92	65-129	
Ethylbenzene	ug/L	10	9.9	99	75-125	
Hexachloro-1,3-butadiene	ug/L	10	10.6	106	66-137	
m&p-Xylene	ug/L	20	18.9	94	75-125	
Methyl-tert-butyl ether	ug/L	10	9.2	92	75-125	
Methylene Chloride	ug/L	10	9.6	96	72-125	
Naphthalene	ug/L	10	8.8	88	63-125	
o-Xylene	ug/L	10	9.6	96	75-125	
Tetrachloroethene	ug/L	10	10.5	105	75-125	
Toluene	ug/L	10	10.0	100	75-125	
trans-1,2-Dichloroethene	ug/L	10	10.9	109	70-125	
trans-1,3-Dichloropropene	ug/L	10	8.2	82	75-125	
Trichloroethene	ug/L	10	10.9	109	74-125	
Trichlorofluoromethane	ug/L	10	8.9	89	74-125	
Vinyl chloride	ug/L	10	10.1	101	71-125	
Xylene (Total)	ug/L	30	28.5	95	75-125	

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

LABORATORY CONTROL SAMPLE: 3461257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%. %			86 101	75-125 75-125	
4-Bromofluorobenzene (S)	%. %					
Toluene-d8 (S)	%. %			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461379 3461380

Parameter	Units	10496944003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	10	10	12.2	12.0	122	120	30-150	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	10	10	10.1	10.7	101	107	30-150	6	30	
1,1,2-Trichloroethane	ug/L	ND	10	10	10.3	10.4	103	104	30-150	1	30	
1,1-Dichloroethane	ug/L	ND	10	10	11.4	11.5	114	115	30-150	1	30	
1,1-Dichloroethene	ug/L	ND	10	10	14.2	13.9	142	139	30-150	2	30	
1,2-Dibromoethane (EDB)	ug/L	ND	10	10	9.8	10.0	98	100	30-150	2	30	
1,2-Dichlorobenzene	ug/L	ND	10	10	10.4	10.8	104	108	30-150	4	30	
1,2-Dichloroethane	ug/L	ND	10	10	9.0	9.0	90	90	30-150	0	30	
1,2-Dichloropropane	ug/L	ND	10	10	10.6	10.6	106	106	30-150	1	30	
1,3-Dichlorobenzene	ug/L	ND	10	10	10.7	11.5	107	115	30-150	7	30	
1,4-Dichlorobenzene	ug/L	ND	10	10	10.2	11.0	102	110	30-150	8	30	
Benzene	ug/L	ND	10	10	11.6	11.6	116	116	30-150	0	30	
Bromodichloromethane	ug/L	ND	10	10	9.6	9.5	96	95	30-150	1	30	
Bromoform	ug/L	ND	10	10	9.2	9.5	92	95	30-150	3	30	
Bromomethane	ug/L	ND	10	10	7.2	7.8	72	78	30-150	8	30	
Carbon tetrachloride	ug/L	ND	10	10	13.5	13.4	135	134	30-150	1	30	
Chlorobenzene	ug/L	ND	10	10	10.8	11.0	108	110	30-150	2	30	
Chloroethane	ug/L	ND	10	10	10	9.3	100	93	30-150	7	30	
Chloroform	ug/L	ND	10	10	9.7	9.7	97	97	30-150	0	30	
Chloromethane	ug/L	ND	10	10	9.0	10.8	90	108	30-150	18	30	
cis-1,2-Dichloroethene	ug/L	ND	10	10	12.1	11.7	118	114	30-150	3	30	
cis-1,3-Dichloropropene	ug/L	ND	10	10	10.1	10.0	101	100	30-145	1	30	
Dibromochloromethane	ug/L	ND	10	10	9.2	9.5	92	95	30-150	2	30	
Dichlorodifluoromethane	ug/L	ND	10	10	10.6	10.8	106	108	30-150	2	30	
Ethylbenzene	ug/L	ND	10	10	11.2	11.6	112	116	30-150	4	30	
Hexachloro-1,3-butadiene	ug/L	ND	10	10	16.9	13.8	169	138	30-150	20	30 M1	
m&p-Xylene	ug/L	ND	20	20	21.1	21.7	106	108	30-150	3	30	
Methyl-tert-butyl ether	ug/L	ND	10	10	9.4	9.7	94	97	30-150	3	30	
Methylene Chloride	ug/L	ND	10	10	10.4	10.7	104	107	30-146	3	30	
Naphthalene	ug/L	ND	10	10	8.8	9.9	88	98	30-150	11	30	
o-Xylene	ug/L	ND	10	10	10.6	11.2	106	112	30-150	6	30	
Tetrachloroethene	ug/L	ND	10	10	13.1	13.7	123	129	30-150	4	30	
Toluene	ug/L	ND	10	10	11.6	11.7	116	117	30-150	1	30	
trans-1,2-Dichloroethene	ug/L	ND	10	10	13.1	12.9	131	129	30-150	2	30	
trans-1,3-Dichloropropene	ug/L	ND	10	10	9.1	9.0	91	90	30-150	0	30	
Trichloroethene	ug/L	ND	10	10	12.7	12.9	127	129	30-150	1	30	
Trichlorofluoromethane	ug/L	ND	10	10	9.8	10	98	100	30-150	2	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3461379		3461380									
Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	Max		Qual
		10496944003	Spike Conc.	Spike Conc.	MS Result						RPD	RPD	
Vinyl chloride	ug/L	ND	10	10	10.7	11.0	107	110	30-150	2	30		
Xylene (Total)	ug/L	ND	30	30	31.7	32.9	106	110	30-150	4	30		
1,2-Dichloroethane-d4 (S)	%.						85	82	75-125				
4-Bromofluorobenzene (S)	%.						99	102	75-125				
Toluene-d8 (S)	%.						99	100	75-125				

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QUALITY CONTROL DATA

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

QC Batch:	640557	Analysis Method:	NWTPH-Dx
QC Batch Method:	EPA Mod. 3510C	Analysis Description:	NWTPH-Dx GCS LV

Associated Lab Samples: 10496731002, 10496731003, 10496731004, 10496731005, 10496731006, 10496731007, 10496731008,
10496731009, 10496731010

METHOD BLANK: 3450566 Matrix: Water

Associated Lab Samples: 10496731002, 10496731003, 10496731004, 10496731005, 10496731006, 10496731007, 10496731008,
10496731009, 10496731010

Parameter	Units	Blank Result	Reporting Limit		Analyzed	Qualifiers
			Limit	Analyzed		
Diesel Fuel Range	ug/L	ND	400	10/28/19 13:59		
Motor Oil Range	ug/L	ND	400	10/28/19 13:59		
n-Triacontane (S)	%.	82	50-150	10/28/19 13:59		
o-Terphenyl (S)	%.	78	50-150	10/28/19 13:59		

LABORATORY CONTROL SAMPLE & LCSD: 3450567

3450568

Parameter	Units	Spike Conc.	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max RPD	Qualifiers
			Result	Result	% Rec	% Rec				
Diesel Fuel Range	ug/L	2000	1500	1320	75	66	50-150	12	20	
Motor Oil Range	ug/L	2000	1520	1330	76	66	50-150	14	20	
n-Triacontane (S)	%.				76	68	50-150			
o-Terphenyl (S)	%.				76	66	50-150			

SAMPLE DUPLICATE: 3450656

Parameter	Units	10499124001		Dup Result	RPD	Max RPD	Qualifiers
		Result	RPD				
Diesel Fuel Range	ug/L	ND	246J			30	
Motor Oil Range	ug/L	ND	279J			30	
n-Triacontane (S)	%.	60	68				
o-Terphenyl (S)	%.	59	59				

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QUALIFIERS

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

H1 Analysis conducted outside the recognized method holding time.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

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METHOD CROSS REFERENCE TABLE

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Parameter	Matrix	Analytical Method	Preparation Method
8260B VOC	Water	SW-846 8260B/5030B	N/A

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11145925 P66/ 1300 W. 12th St.

Pace Project No.: 10496731

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10496731002	MW-1	EPA Mod. 3510C	640557	NWTPH-Dx	641490
10496731003	MW-2	EPA Mod. 3510C	640557	NWTPH-Dx	641490
10496731004	MW-4	EPA Mod. 3510C	640557	NWTPH-Dx	641490
10496731005	MW-5A	EPA Mod. 3510C	640557	NWTPH-Dx	641490
10496731006	MW-6	EPA Mod. 3510C	640557	NWTPH-Dx	641490
10496731007	MW-7	EPA Mod. 3510C	640557	NWTPH-Dx	641490
10496731008	MW-8	EPA Mod. 3510C	640557	NWTPH-Dx	641490
10496731009	MW-9	EPA Mod. 3510C	640557	NWTPH-Dx	641490
10496731010	MW-10	EPA Mod. 3510C	640557	NWTPH-Dx	641490
10496731001	Dup-1	NWTPH-Gx	642991		
10496731002	MW-1	NWTPH-Gx	643418		
10496731003	MW-2	NWTPH-Gx	642991		
10496731004	MW-4	NWTPH-Gx	642991		
10496731005	MW-5A	NWTPH-Gx	642991		
10496731006	MW-6	NWTPH-Gx	643418		
10496731007	MW-7	NWTPH-Gx	642991		
10496731008	MW-8	NWTPH-Gx	642991		
10496731009	MW-9	NWTPH-Gx	643418		
10496731010	MW-10	NWTPH-Gx	643418		
10496731011	Trip Blank	NWTPH-Gx	642991		
10496731001	Dup-1	EPA 8260B	642287		
10496731002	MW-1	EPA 8260B	642766		
10496731003	MW-2	EPA 8260B	642287		
10496731004	MW-4	EPA 8260B	642287		
10496731005	MW-5A	EPA 8260B	642287		
10496731006	MW-6	EPA 8260B	642766		
10496731007	MW-7	EPA 8260B	642287		
10496731008	MW-8	EPA 8260B	642287		
10496731009	MW-9	EPA 8260B	642766		
10496731010	MW-10	EPA 8260B	642766		
10496731011	Trip Blank	EPA 8260B	642600		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a **LEGAL DOCUMENT**. All relevant fields must be completed accurately.



Document Name:
Sample Condition Upon Receipt Form

Document Revised: 23Aug2019
Page 1 of 1

Document No.:
F-MN-L-213-rev.29

Issuing Authority:
Pace Minnesota Quality Office

**Sample Condition
Upon Receipt**

Client Name:

GHD Services Inc.

Project #:

WO# : 10496731

Courier:

Fed Ex UPS USPS Client
 Pace SpeeDee Commercial See Exceptions

Tracking Number: *7475 9399 4430/4934 3732 7550*

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Biological Tissue Frozen?** Yes No N/A

Packing Material: Bubble Wrap Bubble Bags None Other: _____ **Temp Blank?** Yes No

Thermometer: T1(0461) T2(1336) T3(0459)
 T4(0254) T5(0489) **Type of Ice:** Wet Blue None Dry Melted

Note: Each West Virginia Sample must have temp taken (no temp blanks)

Temp should be above freezing to 6°C	Cooler Temp Read w/temp blank: <i>0.2, 2.4</i> °C	Average Corrected Temp (no temp blank only): <input type="checkbox"/> See Exceptions
Correction Factor: <i>-0.1</i>	Cooler Temp Corrected w/temp blank: <i>0.0, 2.2</i> °C	<input type="checkbox"/> 1 Container

USDA Regulated Soil: (N/A, water sample/Other: _____) **Date/Initials of Person Examining Contents:** *JMG 10.25.19*

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present and Filled Out?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.	
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.	
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below: See Exception <input type="checkbox"/>	
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other			
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample # <input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate	
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes Chlorine? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No pH Paper Lot# <input type="checkbox"/> Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip	
Exemptions: VOA, Coliform, TOC/DOC Oil and Grease, DRCY8015 (water) and Dioxin/PFAS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	See Exception <input type="checkbox"/>	
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13. See Exception <input type="checkbox"/>	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. Pace Trip Blank Lot # (if purchased): <i>228292</i>	

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Field Data Required? Yes No

Project Manager Review: _____

JENNI Gross

Date: *10/25/19*

Note: Whenever there is a discrepancy affecting compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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