August 11, 2016 Reference No. 061992

Michael R. (Mike) Warfel, LG, LHG, RG
State of Washington - Department of Ecology
NW Regional Office/Toxics Cleanup Program
3190 160th Ave. SE
Bellevue, WA 98008

Re: First Quarter 2016
Groundwater Monitoring and Sampling Report
Former Tidewater Site
Phillips 66 Site 5173
Chevron Site 301233
2800 Martin Luther King Junior Way South
Seattle, Washington
DOE Case 42746846; VCP No. NW2612

Dear Ms. Sanchez:

On behalf of Phillips 66 Company (Phillips 66) and Chevron Environmental Management Company (Chevron), GHD Services, Inc. (GHD) is submitting this *First Quarter 2016 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1). Groundwater monitoring and sampling was performed by Blaine Tech Services, Inc. (BTS). BTS's field forms are presented as Attachment A. Eurofins Lancaster Laboratory Environmental, LLCs' Analytical Results report is included as Attachment B. A summary of previous site investigations is included as Attachment C. A site map is presented as Figure 2.

Results of First Quarter 2016 Event

On February 25 and 26, 2016, BTS monitored and sampled the site wells per the established schedule.

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction — Southwest (Figure 3)
- Hydraulic Gradient — 0.06 foot per foot
- Approximate Depth to Water — 8.71 to 11.96 feet below grade
- Approximate Groundwater Elevation — 46.53 to 53.52 feet above mean sea level

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A partial summary of results from the current sampling event is presented below in Table A and on Figure 4:

Table A - Groundwater Analytical Data

Well ID	TPHg µg/L	TPHd µg/L	TPHo µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes (µg/L)
MTCA Method A Cleanup Levels	**800/ 1,000***	**500**	**500**	**5**	**1,000**	**700**	**1,000**
MW-1	<50	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-2	790	280	<66	<0.5	<0.5	5	21
MW-3	**6,900**	410	<66	<1	<1	72	190
MW-4	<50	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-5	**1,500**	180	<67	<0.5	<0.5	18	44
MW-5 DUP	**1,600**	89 J	<67	<0.5	<0.5	19	45
MW-6	<50	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-7	<50	<29	<67	<0.5	<0.5	<0.5	<0.5
MW-8	**7,900**	**910**	200 J	<0.5	<0.5	36	120
MW-9	<50	<28	<66	<0.5	<0.5	<0.5	<0.5
MW-10	300	110	<67	1	<0.5	<0.5	2
MW-11	740	<29	<67	<1	<1	<1	<1
MW-13	<50	<29	<67	<0.5	<0.5	<0.5	<0.5

Bold	Indicates concentration exceed MTCA Method A cleanup level
*	TPHg Cleanup Level for wells containing benzene is 800 µg/L; otherwise cleanup level is 1,000 µg/L.
µg/L	micrograms per liter
TPHg	total petroleum hydrocarbons as gasoline
TPHd	total petroleum hydrocarbons as diesel
TPHo	total petroleum hydrocarbons as oil
J	Estimated value > the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ)

Conclusions and Recommendations

The results of ongoing groundwater monitoring and sampling at the site indicate:

- TPHg concentrations exceeded the Washington State Ecology (Ecology) Model Toxics Control Act (MTCA) Method A cleanup level in groundwater wells MW-3, MW-5, and MW-8, with the highest concentration detected at MW-8 (Figure 5).
- TPHg concentrations are below the MTCA Method A cleanup level in well MW-11, but the presence of TPHg may be due to tetrachloroethene (PCE) eluting within the gasoline range. The presence of PCE in groundwater is likely from an up-gradient off site source.
- TPHg and BTEX concentrations detected in well MW-10 are not likely related to a release from the site property. Well MW-10 is located cross-gradient from the known on-property source areas.
- TPHd concentrations exceeded the MTCA Method A cleanup level in well MW-8 (Figure 6). The presence of TPHd may be due to overlap of TPHg during analysis.
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations were below MTCA Method A cleanup levels in all wells.

GHD recommends continuing quarterly monitoring and sampling to further evaluate concentration trends over time.

Anticipated Future Activities

Groundwater Monitoring

BTS will monitor and sample site wells per the established schedule. The second quarter 2016 event was performed in May 2016. GHD will submit a groundwater monitoring and sampling report approximately 90 days following receipt of laboratory analytical results.

Remedial Investigation/Feasibility Study (RI/FS) Work Plan

GHD submitted an RI/FS Work Plan to the Department of Ecology in November 2013, and began implementation of the work plan in June 2014. The proposed monitoring wells and soil borings outside the former station building were installed in June 2014. The aquifer potability pumping test was completed in January 2015. The two remaining borings inside the building were completed in March 2015. A RI/FS report is in progress.

Please contact Matthew Davis (253) 573-1218 if you have any questions or require additional information.

Sincerely,

GHD

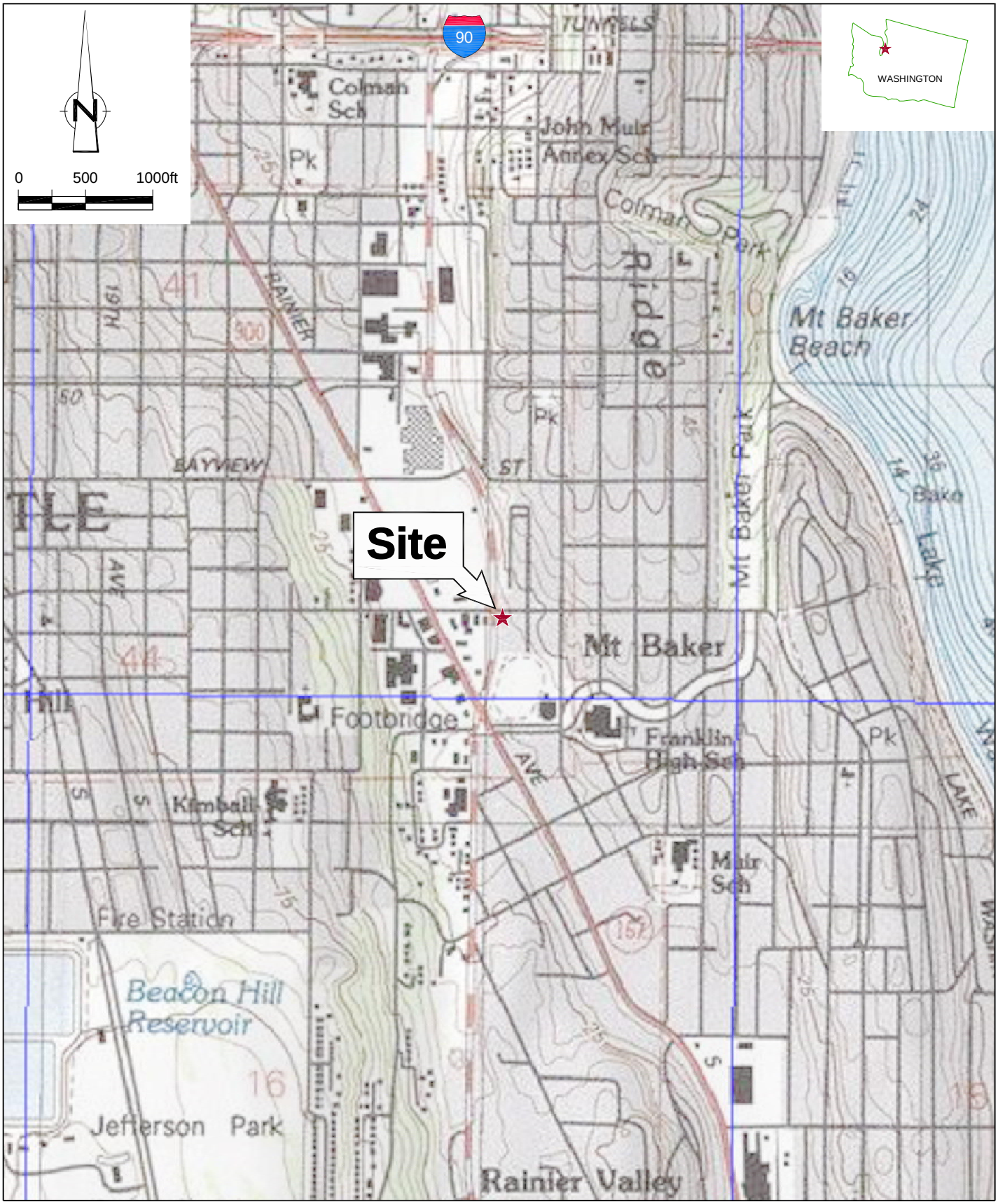
Matthew Davis, LG

KH/cw/18
Encl.

Figure 1	Vicinity Map
Figure 2	Site Plan
Figure 3	Groundwater Elevation Contour Map
Figure 4	Hydrocarbon Concentrations in Groundwater
Figure 5	TPHg In Groundwater Isoconcentration Contour Map
Figure 6	TPHd In Groundwater Isoconcentration Contour Map
Table 1	Summary of Groundwater Monitoring Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Summary of Previous Investigations

cc: Ms. Jillian Holloway, Chevron EMC (*electronic copy*)
Mr. Ed Ralston, Phillips 66 (*electronic copy*)
Thom Morin, Environmental Partners, Inc. (*electronic copy*)
Alison Robinson, Veris Law Group (*electronic copy*)

Figures



SOURCE: TOPO MAPS

FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173, CHEVRON SERVICE STATION 301233
2800 MARTIN LUTHER KING WAY SOUTH, SEATTLE, WASHINGTON

061992-95

Mar 28, 2016

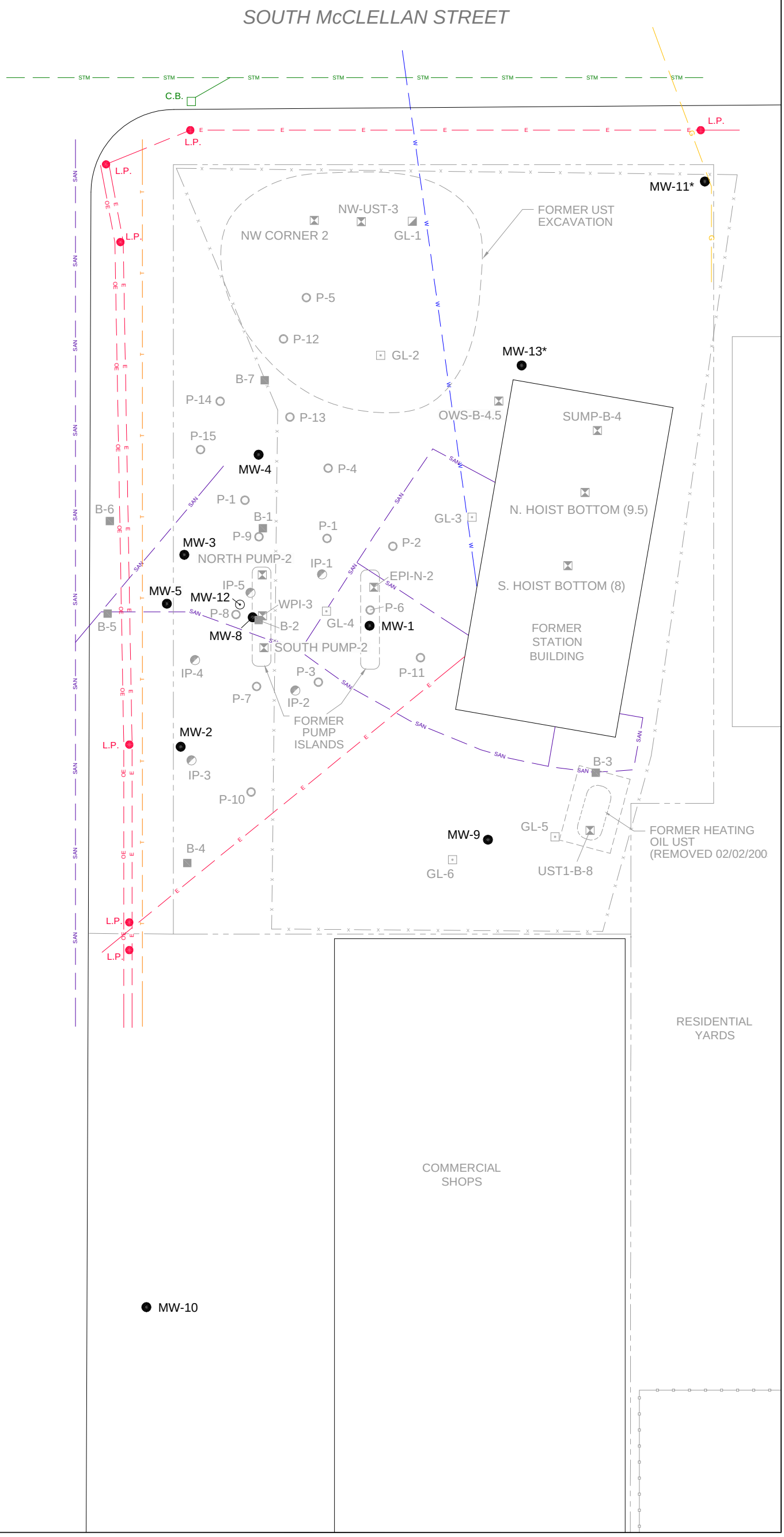
VICINITY MAP

FIGURE 1

CAD File: I:\Chevron\0619--\061992 30-1233 Seattle\061992 FIGURES\061992 RPTs\061992 RPT-018\061992-95(018)GN-EM001.dwg

LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- MW-12 YIELD TEST WELL
- P-1 PREVIOUS GEOPROBE BORING
- B-4 SOIL BORING LOCATION
- GL-2 AUGER BORING LOCATION WITH GROUNDWATER SAMPLE
- GL-1 AUGER BORING LOCATION
- IP-1 FORMER INJECTION WELL LOCATION
- B-4 SOIL SAMPLE LOCATION
- * APPROXIMATE LOCATION
- G NATURAL GAS LINE
- E ELECTRIC LINE
- OE OVERHEAD ELECTRIC LINE
- STM STORM WATER LINE
- SAN SANITARY LINE
- W WATER LINE
- T TELEPHONE/CABLE LINE
- L.S. LIGHT POST
- C.B. CATCHBASIN



0 10 20ft

FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173, CHEVRON SERVICE STATION 301233
2800 MARTIN LUTHER KING WAY SOUTH, SEATTLE, WASHINGTON

061992-95

Apr 14, 2016

SITE PLAN

FIGURE 2

CAD File: I:\Chevron\0619--\061992 30-1233 Seattle\061992 FIGURES\061992 RPTs\061992 RPT-018\061992-95(018)GN-EM002.dwg

LEGEND

MW-1 ● GROUNDWATER MONITORING WELL

* APPROXIMATE LOCATION

50.0 GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (FT MSL), DASHED WHERE INFERRED

x.xx GROUNDWATER FLOW DIRECTION AND GRADIENT

WELL / ELEV WELL DESIGNATION / GROUNDWATER ELEVATION (FT MSL)

NA NOT AVAILABLE

SOUTH McCLELLAN STREET

MARTIN LUTHER KING WAY

MW-11*
NA

FORMER UST EXCAVATION

MW-13*
NA

MW-4
53.52

MW-3
52.48

MW-5
52.65

MW-8
53.00

MW-1
52.79

FORMER STATION BUILDING

MW-2
51.53

FORMER PUMP ISLANDS

MW-9
50.62

FORMER HEATING OIL UST (REMOVED 02/02/200

MW-6
46.54

MW-7
46.53

MW-10
49.63

RESIDENTIAL YARDS

COMMERCIAL SHOPS

53.0 52.0 51.0 50.0 49.0 48.0 47.0

0.06

0 10 20ft

N

GHD

FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173, CHEVRON SERVICE STATION 301233
2800 MARTIN LUTHER KING WAY SOUTH, SEATTLE, WASHINGTON

GROUNDWATER ELEVATION CONTOUR MAP
FEBRUARY 25, 2016

061992-95

Mar 28, 2016

FIGURE 3

CAD File: I:\Chevron\0619--\061992 30-1233 Seattle\061992 FIGURES\061992 RPTs\061992 RPT-018\061992-95(018)GN-EM003.dwg

LEGEND

MW-1 ●	GROUNDWATER MONITORING WELL
*	APPROXIMATE LOCATION
WELL	WELL DESIGNATION
TPHg	TPHg CONCENTRATION (µg/L)
TPHd	TPHd CONCENTRATION (µg/L)
B	BENZENE CONCENTRATION (µg/L)
T	TOLUENE CONCENTRATION (µg/L)
E	ETHYLBENZENE CONCENTRATION (µg/L)
X	TOTAL XYLENES CONCENTRATION (µg/L)
J	ESTIMATED VALUE BETWEEN METHOD DETECTION LIMIT AND LABORATORY REPORTING LIMIT

SOUTH McCLELLAN STREET

MARTIN LUTHER KING WAY

FORMER UST EXCAVATION

FORMER STATION BUILDING

FORMER PUMP ISLANDS

FORMER HEATING OIL UST (REMOVED 02/02/200

RESIDENTIAL YARDS

COMMERCIAL SHOPS

MW-11*
740
<29
<1
<1
<1
<1

MW-13*
<50
<29
<0.5
<0.5
<0.5
<0.5

MW-4
<50
<28
<0.5
<0.5
<0.5
<0.5

MW-3
6,900
410
<1
<1
72
190

MW-5	DUP
1,500	1,600
180	89 J
<0.5	<0.5
<0.5	<0.5
18	19
44	45

MW-8
7,900
910
<0.5
<0.5
36
120

MW-1
<50
<28
<0.5
<0.5
<0.5
<0.5

MW-2
790
280
<0.5
<0.5
5
21

MW-9
<50
<28
<0.5
<0.5
<0.5
<0.5

MW-6
<50
<28
<0.5
<0.5
<0.5
<0.5

MW-7
<50
<29
<0.5
<0.5
<0.5
<0.5

MW-10
300
110
1
<0.5
<0.5
2

0 10 20ft

N

GHD

FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173, CHEVRON SERVICE STATION 301233
2800 MARTIN LUTHER KING WAY SOUTH, SEATTLE, WASHINGTON

HYDROCARBON CONCENTRATIONS IN GROUNDWATER FEBRUARY 25, 2016

061992-95

Apr 4, 2016

FIGURE 4

CAD File: I:\Chevron\0619--\061992 30-1233 Seattle\061992 FIGURES\061992 RPTs\061992 RPT-018\061992-95(018)GN-EM004.dwg

LEGEND

MW-1 ● GROUNDWATER MONITORING WELL

* APPROXIMATE LOCATION

1,000 TPHg CONCENTRATION CONTOUR, IN MICROGRAMS PER LITER (µg/L), DASHED WHERE INFERRED

WELL / TPHg WELL DESIGNATION / TPHg CONCENTRATION (µg/L)

SOUTH McCLELLAN STREET

MARTIN LUTHER KING WAY

FORMER UST EXCAVATION

FORMER STATION BUILDING

FORMER PUMP ISLANDS

FORMER HEATING OIL UST (REMOVED 02/02/200

RESIDENTIAL YARDS

COMMERCIAL SHOPS

MW-11*	740	
MW-13*	<50	
MW-4	<50	
MW-3	6,900	
MW-8	7,900	
MW-5	1,500	DUP 1,600
1,000		
800		
MW-2	790	
MW-1	<50	
MW-9	<50	
MW-6	<50	
MW-7	<50	
MW-10	300	

0 10 20ft

N

GHD

FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173, CHEVRON SERVICE STATION 301233
2800 MARTIN LUTHER KING WAY SOUTH, SEATTLE, WASHINGTON

TPHG IN GROUNDWATER ISOCONCENTRATION CONTOUR MAP FEBRUARY 25, 2016

061992-95

Mar 28, 2016

FIGURE 5

CAD File: I:\Chevron\0619--\061992 30-1233 Seattle\061992 FIGURES\061992 RPTs\061992 RPT-018\061992-95(018)GN-EM005.dwg

LEGEND

MW-1 ● GROUNDWATER MONITORING WELL

* APPROXIMATE LOCATION

500 TPHd CONCENTRATION CONTOUR, IN MICROGRAMS PER LITER (µg/L), DASHED WHERE INFERRED

WELL — WELL DESIGNATION

TPHd — TPHd CONCENTRATION (µg/L)

J ESTIMATED VALUE BETWEEN METHOD DETECTION LIMIT AND LABORATORY REPORTING LIMIT

SOUTH McCLELLAN STREET

MARTIN LUTHER KING WAY

FORMER UST EXCAVATION

FORMER STATION BUILDING

FORMER PUMP ISLANDS

FORMER HEATING OIL UST (REMOVED 02/02/200

RESIDENTIAL YARDS

COMMERCIAL SHOPS

WELL	TPHd
MW-11*	<29
MW-13*	<29
MW-4	<28
MW-3	410
MW-5	180
DUP	89 J
MW-8	910
MW-1	<28
MW-2	280
MW-9	<28
MW-6	<28
MW-7	<29
MW-10	110

500

0 10 20ft

N

GHD

FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173, CHEVRON SERVICE STATION 301233
2800 MARTIN LUTHER KING WAY SOUTH, SEATTLE, WASHINGTON

TPHD IN GROUNDWATER ISOCONCENTRATION CONTOUR MAP FEBRUARY 25, 2016

061992-95

Mar 28, 2016

FIGURE 6

CAD File: I:\Chevron\0619--\061992 30-1233 Seattle\061992 FIGURES\061992 RPTs\061992 RPT-018\061992-95(018)GN-EM006.dwg

Table

Table 1

Summary of Groundwater Monitoring Data
Former Tidewater Service Station
Phillips 66 Site 5173
Chevron Site 301233
2800 Martin Luther King Junior Way South
Seattle, Washington

					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	08/19/2005	97.92	13.01	84.91	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	10/27/2005	97.92	12.62	85.30	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	12/27/2005	97.92	-	-	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	01/12/2006	97.92	9.03	88.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/02/2006	97.92	10.56	87.36	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	06/28/2006	97.92	12.42	85.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/01/2006	97.92	9.33	88.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/06/2006	97.92	9.72	88.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	02/28/2007	97.92	11.04	86.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/07/2007	97.92	11.14	86.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	04/11/2007	97.92	11.06	86.86	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	11/12/2009	97.92	11.08	86.84	<50	-	-	<1.0	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-
MW-1	08/30/2011[3]	97.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/15/2011[3]	97.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	02/06/2012	62.35	9.84	52.51	260	430	620	<0.5	41	3	18	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-1	05/30/2012	62.35	10.63	51.72	<50	35	170	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	1.7	0.007399
MW-1	08/08/2012	62.35	11.36	50.99	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.32	-
MW-1	12/05/2012	62.35	9.51	52.84	<50	<29[4]	<69[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	27.7	-
MW-1	02/26/2013	62.35	10.62	51.73	<50	<30[4]	<71[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.42	-
MW-1	05/23/2013	62.35	11.14	51.21	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.7	-
MW-1	08/29/2013	62.35	12.10	50.25	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.42	-
MW-1	11/13/2013	62.35	11.79	50.56	<50	<32[4]	<74[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.15	-
MW-1	03/19/2014	62.35	8.69	53.66	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.20	-
MW-1	05/27/2014	62.35	9.98	52.37	<50	<28[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.10	-
MW-1	08/28/2014	62.35	11.87	50.48	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.40 J	-
MW-1 DUP	08/28/2014	62.35	11.87	50.48	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.31 J	-
MW-1	12/11/2014	62.35	10.97	51.38	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.84 J	-
MW-1	03/12/2015	62.35	10.31	52.04	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.29 J	-

Table 1

Summary of Groundwater Monitoring Data
Former Tidewater Service Station
Phillips 66 Site 5173
Chevron Site 301233
2800 Martin Luther King Junior Way South
Seattle, Washington

					HYDROCARBONS			PRIMARY VOCS												
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	05/21/2015	62.35	10.90	51.45	69 J	<46	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.17 J	-
MW-1	08/10/2015	62.35	12.55	49.80	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.28 J	-
MW-1	12/21/2015	62.35	8.31	54.04	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.1	-
MW-1	**02/25/2016**	**62.35**	**9.56**	**52.79**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.0095**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.25 J**	**-**
MW-2	08/19/2005	96.25	13.02	83.23	2,000	-	-	ND	10	81	91	-	-	-	-	-	-	-	-	-	-
MW-2	10/27/2005	96.25	13.62	82.63	2,300	-	-	ND	ND	89	93	-	-	-	-	-	-	-	-	-	-
MW-2	12/27/2005	96.25	-	-	820	-	-	ND	ND	21	66	-	-	-	-	-	-	-	-	-	-
MW-2	01/12/2006	96.25	5.77	90.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/02/2006	96.25	11.82	84.43	1,300	-	-	ND	3.9	23	50	-	-	-	-	-	-	-	-	-	-
MW-2	04/13/2006	96.25	13.06	83.19	470	-	-	ND	1.4	6.9	15	-	-	-	-	-	-	-	-	-	-
MW-2	06/28/2006	96.25	12.40	83.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/11/2006	96.25	13.64	82.61	580	-	-	ND	1.6	2.9	6.2	-	-	-	-	-	-	-	-	-	-
MW-2	12/01/2006	96.25	10.65	85.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	12/06/2006	96.25	10.20	86.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	01/12/2007	96.25	11.06	85.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	02/12/2007	96.25	-	-	1,400	-	-	1.4	3.5	16	13	-	-	-	-	-	-	-	-	-	-
MW-2	02/28/2007	96.25	11.65	84.60	1,200	-	-	2	4	18	60	-	-	-	-	-	-	-	-	-	-
MW-2	03/07/2007	96.25	11.43	84.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	04/11/2007	96.25	11.07	85.18	1,200	-	-	ND	3	11	63	-	-	-	-	-	-	-	-	-	-
MW-2	11/12/2009	96.25	12.35	83.90	455	-	-	<1.0	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-
MW-2	08/31/2011	60.72	11.96	48.76	960	590	-	1	<0.7	1	6	<1	<1	<0.5	<1	<1	<1	59	24	-	-
MW-2	12/15/2011	60.72	11.53	49.19	750	30	-	1	<0.7	1	<1.6	<1	<1	<0.5	<1	<1	<1	60	25	-	-
MW-2	02/06/2012	60.72	10.26	50.46	780	390	-	1	2	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	55	22	-	-
MW-2	05/30/2012	60.72	10.83	49.89	480	210	<67	0.8	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	47	21	3.8	0.007173
MW-2	08/08/2012	60.72	11.95	48.77	670	160[4]	<67[4]	0.9	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<1	<1	<1	48	24	8.3	-
MW-2	12/05/2012	60.72	10.61	50.11	590	250[4]	<73[4]	2	<0.5	3	11	<0.5	<0.5	<0.5	<1	<1	<1	37	17	13.1	-
MW-2	02/26/2013	60.72	10.57	50.15	770	150[4]	<68[4]	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	39	19	0.19	-

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					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-2	05/23/2013	60.72	11.15	49.57	470	200[4]	<66[4]	0.7	<0.5	<0.5	3	<0.5	<0.5	<0.5	<1	<1	<1	46	21	0.12	-
MW-2	08/29/2013	60.72	12.11	48.61	740	200[4]	<67[4]	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	<1	<1	36	17	0.36	-
MW-2	11/13/2013	60.72	11.69	49.03	700	160[4]	<67[4]	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	48	21	0.14	-
MW-2	03/18/2014	60.72	10.31	50.41	870	180[4]	<66[4]	0.9	<0.5	3	2	<0.5	<0.5	<0.5	<1	<1	<1	39	19	0.90	-
MW-2	05/27/2014	60.72	10.25	50.47	370	300[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	23	9	0.42	-
MW-2	08/28/2014	60.72	12.11	48.61	440	270	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	19	10	0.44 J	-
MW-2	12/11/2014	60.72	11.05	49.67	420	170	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	21	11	0.93 J	-
MW-2	03/12/2015	60.72	10.31	50.41	360	330	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	9	9	0.59 J	-
MW-2	05/22/2015	60.72	11.52	49.20	400	130	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	10	8	0.15 J	-
MW-2	8/10/2015	60.72	12.41	48.31	290	98	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	7	5	0.25 J	-
MW-2	12/21/2015	60.72	10.10	50.62	1,400	190	<66	<0.5	<0.5	3	2	<0.5	<0.5	<0.5	<1	<1	<1	40	19	0.62 J	-
MW-2	**02/25/2016**	**60.72**	**9.19**	**51.53**	**790**	**280**	**<66**	**<0.5**	**<0.5**	**5**	**21**	**<0.0095**	**<0.5**	**<0.5**	**<1**	**2 J**	**2 J**	**17**	**12**	**0.63 J**	**-**
MW-3	08/19/2005	97.43	12.72	84.71	44,000	-	-	4.1	18	780	3,600	-	-	-	-	-	-	-	-	-	-
MW-3	12/27/2005	97.43	13.42	84.01	17,000	-	-	ND	38	580	3,000	-	-	-	-	-	-	-	-	-	-
MW-3	12/28/2005	-	-	-	6,600	-	-	5	22	200	1,100	-	-	-	-	-	-	-	-	-	-
MW-3	01/12/2006	97.43	8.84	88.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/02/2006	97.43	10.90	86.53	22,000	-	-	ND	26	450	4,200	-	-	-	-	-	-	-	-	-	-
MW-3	04/13/2006	97.43	11.92	85.51	33,000	-	-	ND	3	700	3,100	-	-	-	-	-	-	-	-	-	-
MW-3	06/28/2006	97.43	12.17	85.26	53,000	-	-	ND	17	530	2,600	-	-	-	-	-	-	-	-	-	-
MW-3	08/13/2006	97.43	13.91	83.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/11/2006	97.43	13.77	83.66	14,000	-	-	ND	5.6	180	1,100	-	-	-	-	-	-	-	-	-	-
MW-3	10/13/2006	97.43	-	-	1,400	-	-	ND	1	26	98	-	-	-	-	-	-	-	-	-	-
MW-3	11/17/2006	97.43	10.56	86.87	48,000	-	-	ND	34	490	4,100	-	-	-	-	-	-	-	-	-	-
MW-3	12/01/2006	97.43	9.78	87.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/06/2006	97.43	10.01	87.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	01/12/2007	97.43	10.90	86.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	02/12/2007	97.43	-	-	36,000	-	-	ND	10	280	1,800	-	-	-	-	-	-	-	-	-	-
MW-3	02/28/2007	97.43	11.12	86.31	22,000	-	-	ND	6	200	1,400	-	-	-	-	-	-	-	-	-	-
MW-3	03/07/2007	97.43	11.17	86.26	21,000	-	-	ND	18	170	1,000	-	-	-	-	-	-	-	-	-	-
MW-3	04/11/2007	97.43	11.04	86.39	19,000	-	-	ND	6	110	1,100	-	-	-	-	-	-	-	-	-	-
MW-3	11/12/2009	97.43	11.98	85.45	71.7	-	-	ND	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-

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					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	08/31/2011	61.81	12.10	49.71	7,400	370	<68	<1.0	<1	190	554	<2	<2	<1	67	1,300	330	140	47	-	-
MW-3	12/15/2011	61.81	11.38	50.43	5,400	<29	<67	<0.5	<0.7	120	400	<1	<1	<0.5	50	950	210	110	37	-	-
MW-3	02/06/2012	61.81	10.33	51.48	6,300	1,200	<68	<1	<1	130	523	<2	<2	<1	49	870	190	74	27	-	-
MW-3	05/30/2012	61.81	10.87	50.94	7,400	520	<66	<1	<1	160	660	<2	<2	<1	66	1,100	220	100	38	1.1	0.012868
MW-3	08/07/2012	61.81	11.42	50.39	8,100	290[4]	<67[4]	<1	<1	140	610	<1	<1	<1	71	830	140	86	33	0.98	-
MW-3	12/06/2012	61.81	9.91	51.90	6,700	290[4]	<69[4]	<0.5	<0.5	160	480	<0.5	<0.5	<0.5	75	860	160	100	41	0.36	-
MW-3	02/27/2013	61.81	10.88	50.93	9,500	510[4]	<66[4]	<0.5	<0.5	190	620	<0.5	<0.5	<0.5	73	1,200	240	130	51	0.70	-
MW-3	05/23/2013	61.81	11.00	50.81	5,800	240[4]	<67[4]	<0.5	<0.5	160	550	<0.5	<0.5	<0.5	82	1,200	170	130	45	2.6	-
MW-3	08/30/2013	61.81	12.04	49.77	4,300	260[4]	<70[4]	<0.5	<0.5	54	190	<0.5	<0.5	<0.5	33	680	52	81	33	0.26	-
MW-3	11/13/2013	61.81	11.59	50.22	3,100	120[4]	<67[4]	<0.5	<0.5	33	120	<0.5	<0.5	<0.5	20	440	23	86	31	0.30	-
MW-3	03/19/2014	61.81	9.20	52.61	6,300	180[4]	<66[4]	<0.5	<0.5	100	410	<0.5	<0.5	<0.5	49	790	99	82	35	1.2	-
MW-3	05/27/2014	61.81	10.58	51.23	8,700	210[4]	<66[4]	<1	<1	180	460	<1	<1	<1	54	1,600	65	170	63	0.65	-
MW-3	08/29/2014	61.81	11.81	50.00	2,800	170	<66	<0.5	<0.5	34	34	<0.5	<0.5	<0.5	9	370	11	61	27	0.20 J	-
MW-3	12/11/2014	61.81	9.91	51.90	7,800	150	<67	<1	<1	150	510	<1	<1	<1	69	1,200	100	110	44	0.45 J	-
MW-3	03/13/2015	61.81	10.64	51.17	7,700	310	<67	<1	<1	160	360	<1	<1	<1	54	960	74	120	46	6.7	-
MW-3 Dup	03/13/2015	61.81	10.64	51.17	7,500	240	<66	<0.5	0.8 J	190	420	<0.5	<0.5	<0.5	61	1,300	78	150	55	2.1	-
MW-3	05/22/2015	61.81	11.01	50.80	6,000	110	<100	<0.5	<0.5	160	400	<0.5	<0.5	<0.5	41	910	46	130	50	0.18 J	-
MW-3 Dup	05/22/2015	61.81	11.01	50.80	5,600	130	<100	<0.5	<0.5	140	340	<0.5	<0.5	<0.5	38	1,100	43	120	44	0.20 J	-
MW-3	8/10/2015	61.81	12.41	49.40	3100	160	<66	<0.5	<0.5	86	57	<0.5	<0.5	<0.5	8	450	16	91	30	0.20 J	-
MW-3 Dup	8/10/2015	61.81	12.41	49.40	2,900	170	<66	<0.5	<0.5	88	68	<0.5	<0.5	<0.5	9	380	19	94	31	0.24 J	-
MW-3	12/21/2015	61.81	8.31	53.50	2,000	160	560	<0.5	<0.5	12	53	<0.5	<0.5	<0.5	7	210	22	18	6	3.7	-
MW-3 Dup	12/21/2015	61.81	8.31	53.50	1,800	83 J	<66	<0.5	<0.5	12	50	<0.5	<0.5	<0.5	6	170	21	17	7	3.3	-
MW-3	**02/25/2016**	**61.81**	**9.33**	**52.48**	**6,900**	**410**	**<66**	**<1**	**<1**	**72**	**190**	**<0.0095**	**<1**	**<1**	**24**	**840**	**97**	**70**	**25**	**0.45 J**	**-**
MW-4	06/28/2006	98.36	12.40	85.96	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-4	12/01/2006	98.36	9.90	88.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	12/06/2006	98.36	10.21	88.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	02/28/2007	98.36	11.43	86.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	03/07/2007	98.36	11.49	86.87	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-4	04/11/2007	98.36	11.27	87.09	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-4	11/12/2009	98.36	11.82	86.54	<50	-	-	<1.0	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-
MW-4	08/31/2011	62.75	12.42	50.33	<50	<29	<68	<0.5	<0.7	<0.8	<0.8	<2	<2	<0.5	<1	<1	<1	<1	<1	-	-

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	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4	12/15/2011	62.75	11.69	51.06	<50	<29	<67	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-4	02/06/2012	62.75	10.50	52.25	<50	55	<67	<0.5	<0.7	<0.8	<1.6	<2	<2	<0.5	<1	<1	<1	<1	<1	-	-
MW-4	05/30/2012	62.75	11.11	51.64	<50	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	1.8	0.007248
MW-4	08/07/2012	62.75	11.76	50.99	<50	<29[4]	<68[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.34	-
MW-4	12/05/2012	62.75	10.19	52.56	<50	<32[4]	<75[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	4.0	-
MW-4	02/26/2013	62.75	11.15	51.60	<50	<28[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.16	-
MW-4	05/23/2013	62.75	11.35	51.40	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.74	-
MW-4	08/29/2013	62.75	12.41	50.34	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.085	-
MW-4	11/13/2013	62.75	11.98	50.77	<50	<31[4]	<73[4]	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.085	-
MW-4	03/18/2014	62.75	9.29	53.46	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.14	-
MW-4	05/27/2014	62.75	10.89	51.86	<50	<28[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.085	-
MW-4	08/28/2014	62.75	12.27	50.48	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.14 J	-
MW-4	12/10/2014	62.75	11.17	51.58	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.15 J	-
MW-4 Dup	12/10/2014	62.75	11.17	51.58	<50	<28	<65	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.12 J	-
MW-4	03/13/2015	62.75	10.80	51.95	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.082	-
MW-4	05/21/2015	62.75	11.42	51.33	<50	<46	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.15 J	-
MW-4	8/11/2015	62.75	12.51	50.24	<50	<29	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.13	-
MW-4	12/22/2015	62.75	10.71	52.04	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.23 J	-
MW-4	**02/25/2016**	**62.75**	**9.23**	**53.52**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.0095**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**<0.13**	**-**
MW-5	06/28/2006	97.20	12.09	85.11	21,000	-	-	ND	14	290	920	-	-	-	-	-	-	-	-	-	-
MW-5	09/11/2006	97.20	13.63	83.57	2,500	-	-	ND	ND	34	60	-	-	-	-	-	-	-	-	-	-
MW-5	11/17/2006	97.20	10.57	86.63	23,000	-	-	ND	52	450	1,700	-	-	-	-	-	-	-	-	-	-
MW-5	12/01/2006	97.20	9.75	87.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	01/12/2007	97.20	10.85	86.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	02/12/2007	97.20	-	-	37,000	-	-	ND	33	1,600	2,800	-	-	-	-	-	-	-	-	-	-
MW-5	02/28/2007	97.20	11.05	86.15	29,000	-	-	ND	24	550	1,800	-	-	-	-	-	-	-	-	-	-
MW-5	03/07/2007	97.20	11.11	86.09	42,000	-	-	11	24	740	2,500	-	-	-	-	-	-	-	-	-	-
MW-5	04/11/2007	97.20	10.96	86.24	65,000	-	-	ND	79	850	4,000	-	-	-	-	-	-	-	-	-	-
MW-5	11/12/2009	97.20	12.10	85.10	2,340	-	-	1	36	<1.0	125	-	-	-	-	-	-	-	-	-	-
MW-5	08/31/2011	61.66	12.80	48.86	3,100	770	<67	2	1	72	124	<1	<1	<0.5	120	130	18	210	78	-	-
MW-5	12/15/2011	61.66	11.41	50.25	1,900	66	<67	1	0.9	24	33	<1	<1	<0.5	81	43	3	120	43	-	-

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					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-5	02/06/2012	61.66	10.54	51.12	1,200	34	<68	0.8	<0.7	12	43	<1	<1	<0.5	37	31	6	55	21	-	-
MW-5	05/30/2012	61.66	10.91	50.75	260	54	<66	<0.5	<0.7	3	7	<1	<1	<0.5	12	4	<1	24	9	0.48	0.009168
MW-5	08/07/2012	61.66	11.39	50.27	610	190[4]	<66[4]	<0.5	<0.5	11	22	<0.5	<0.5	<0.5	21	33	12	32	13	5.1	-
MW-5	12/06/2012	61.66	9.74	51.92	170	40[4]	<76[4]	<0.5	<0.5	2	8	<0.5	<0.5	<0.5	8	3	<1	12	4	0.17	-
MW-5	02/27/2013	61.66	11.03	50.63	790	170[4]	<69[4]	<0.5	0.6	7	12	<0.5	<0.5	<0.5	25	9	1	42	19	0.76	-
MW-5	05/23/2013	61.66	10.90	50.76	360	64[4]	<67[4]	<0.5	<0.5	4	6	<0.5	<0.5	<0.5	25	4	<1	34	13	0.80	-
MW-5	08/30/2013	61.66	12.19	49.47	3,200	340[4]	<69[4]	0.7	1	49	89	<0.5	<0.5	<0.5	92	92	16	160	59	1.2	-
MW-5	11/14/2013	61.66	11.64	50.02	2,000	240[4]	<75[4]	0.7	0.7	19	14	<0.5	<0.5	<0.5	54	6	<1	130	44	0.31	-
MW-5	03/19/2014	61.66	9.21	52.45	1,700	110[4]	<67[4]	<0.5	<0.5	34	150	<0.5	<0.5	<0.5	26	170	27	52	19	0.17	-
MW-5	05/28/2014	61.66	10.62	51.04	570	100[4]	<67[4]	<0.5	<0.5	8	26	<0.5	<0.5	<0.5	9	16	6	41	14	0.16	-
MW-5	08/28/2014	61.66	12.01	49.65	3,900	360	<66	<0.5	0.9 J	34	65	<0.5	<0.5	<0.5	36	65	15	170	61	0.49 J	-
MW-5	12/11/2014	61.66	9.61	52.05	260	<29	<67	<0.5	<0.5	0.8 J	5	<0.5	<0.5	<0.5	1 J	6	2 J	4 J	2 J	1.3	-
MW-5	03/13/2015	61.66	10.69	50.97	670	170	<66	<0.5	<0.5	5	5	<0.5	<0.5	<0.5	2 J	9	6	36	15	0.10 J	-
MW-5	05/22/2015	61.66	11.16	50.50	1,400	150	<100	<0.5	<0.5	18	39	<0.5	<0.5	<0.5	13	38	4 J	81	30	0.42 J	-
MW-5	8/10/2015	61.66	12.61	49.05	2,000	220	<67	<0.5	0.6 J	10	5	<0.5	<0.5	<0.5	13	4 J	2 J	140	45	0.40 J	-
MW-5	12/21/2015	61.66	8.46	53.20	2,800	400	<66	<0.5	<0.5	27	100	<0.5	<0.5	<0.5	11	250	53	41	14	0.82 J	-
MW-5	**02/26/2016**	**61.66**	**9.01**	**52.65**	**1,500**	**180**	**<67**	**<0.5**	**<0.5**	**18**	**44**	**<0.0096**	**<0.5**	**<0.5**	**4 J**	**110**	**40**	**40**	**14**	**0.28 J**	**-**
MW-5 Dup	**02/26/2016**	**61.66**	**9.01**	**52.65**	**1,600**	**89 J**	**<67**	**<0.5**	**<0.5**	**19**	**45**	**<0.0095**	**<0.5**	**<0.5**	**5 J**	**110**	**42**	**42**	**15**	**0.97 J**	
MW-6	08/31/2011	58.03	12.33	45.70	<50	44	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	1	<1	<1	<1	<1	-	-
MW-6	12/15/2011	58.03	12.09	45.94	<50	<29	<67	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-6	02/06/2012	58.03	11.80	46.23	<50	<29	<68	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-6	05/30/2012	58.03	12.03	46.00	<50	<29	<68	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	2.5	-
MW-6	08/07/2012	58.03	12.21	45.82	<50	<28[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.15	-
MW-6	12/06/2012	58.03	11.60	46.43	<50	<31[4]	<73[4]	<0.5	<0.5	1	6	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.1	-
MW-6	02/27/2013	58.03	11.77	46.26	<50	<30[4]	<70[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.68	-
MW-6	05/24/2013	58.03	11.91	46.12	<50	<30[4]	<70[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.20	-
MW-6	08/29/2013	58.03	12.21	45.82	<50	<28[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.087	-
MW-6	11/14/2013	58.03	12.12	45.91	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.15	-
MW-6	03/18/2014	58.03	11.38	46.65	<50	<29[4]	<68[4]	4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.97	-
MW-6	05/28/2014	58.03	11.87	46.16	<50	<28[4]	<66[4]	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	30.5	-
MW-6	08/29/2014	58.03	11.86	46.17	<50	59 J	120 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	24.4	-

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Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-6	12/10/2014	58.03	11.72	46.31	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	20.5	-
MW-6	03/13/2015	58.03	11.41	46.62	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	2.4	-
MW-6	05/21/2015	58.03	11.91	46.12	<50	<46	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.96 J	-
MW-6	8/11/2015	58.03	12.33	45.70	<50	<29	92 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.69 J	-
MW-6	12/22/2015	58.03	11.23	46.80	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.26 J	-
MW-6	**2/26/2016**	**58.03**	**11.49**	**46.54**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.0095**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.89 J**	**-**
MW-7	08/31/2011	56.96	11.15	45.81	<50	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-7	12/15/2011	56.96	10.93	46.03	<50	45	89	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-7	02/06/2012	56.96	10.75	46.21	<50	<29	<68	<0.5	2	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-7	05/30/2012	56.96	10.93	46.03	<50	37	160	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	13.8	0.097
MW-7	08/07/2012	56.96	11.70	45.26	<50	<28[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	31.7	-
MW-7	12/06/2012	56.96	10.46	46.50	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	40.3	-
MW-7	02/27/2013	56.96	10.69	46.27	<50	<29[4]	<68[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	76.5	-
MW-7	05/24/2013	56.96	10.81	46.15	<50	<31[4]	<72[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.9	-
MW-7	08/29/2013	56.96	11.05	45.91	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	2.9	-
MW-7	11/14/2013	56.96	10.96	46.00	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	22.7	-
MW-7	03/18/2014	56.96	10.39	46.57	<50	<29[4]	<68[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	79.3	-
MW-7	05/28/2014	56.96	10.78	46.18	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	9.7	-
MW-7	08/29/2014	56.96	10.90	46.06	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	40.9	-
MW-7	12/10/2014	56.96	10.56	46.40	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	35.6	-
MW-7	03/13/2015	56.96	10.78	46.18	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	11.8	-
MW-7	05/21/2015	56.96	10.80	46.16	<50	<45	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.2	-
MW-7	8/11/2015	56.96	11.19	45.77	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	5.9	-
MW-7	12/22/2015	56.96	10.33	46.63	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	3.3	-
MW-7	**02/26/2016**	**56.96**	**10.43**	**46.53**	**<50**	**<29**	**<67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.0095**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**5.9**	**-**
MW-8	08/31/2011	61.71	12.01	49.70	4,400	240	<67	<0.5	<0.7	41	442	<1	<1	<0.5	33	500	130	26	11	-	-
MW-8	12/15/2011	61.71	11.25	50.46	8,100	96	<67	<0.5	<0.7	79	880	<1	<1	<0.5	72	900	230	46	20	-	-
MW-8	02/06/2012	61.71	10.00	51.71	13,000	290	<69	<1	<1	110	1,280	<2	<2	<1	89	1,400	450	36	18	-	-
MW-8	05/30/2012	61.71	10.69	51.02	9,500	700	<68	<1	<1	110	1,300	<2	<2	<1	96	1,100	310	59	28	7.1	0.007324
MW-8 DUP	05/30/2012	61.71	10.69	51.02	10,000	450	<66	<1	<1	110	1,300	<2	<2	<1	93	1,300	340	58	27	5.3	0.007248

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Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-8	08/08/2012	61.71	11.30	50.41	9,300	290[4]	<66[4]	<1	<1	92	850	<1	<1	<1	73	910	190	49	22	3.4	-
MW-8 DUP	08/08/2012	61.71	11.30	50.41	11,000	240[4]	<66[4]	<1	<1	83	710	<1	<1	<1	67	680	140	44	20	3.6	-
MW-8	12/05/2012	61.71	9.61	52.10	13,000	2,600[4]	200[4]	<0.5	0.8	95	1,100	<0.5	<0.5	<0.5	93	1,400	380	61	27	27.6	-
MW-8 DUP	12/05/2012	61.71	9.61	52.10	12,000	2,600[4]	240[4]	<0.5	0.8	91	1,100	<0.5	<0.5	<0.5	91	1,400	360	58	26	27.4	-
MW-8	02/26/2013	61.71	10.71	51.00	12,000	780[4]	<70[4]	<0.5	0.6	100	800	<0.5	<0.5	<0.5	86	1,200	280	63	29	5.2	-
MW-8 DUP	02/26/2013	61.71	10.71	51.00	11,000	540[4]	<69[4]	<0.5	0.6	100	770	<0.5	<0.5	<0.5	72	1,100	280	60	29	5.3	-
MW-8	05/23/2013	61.71	10.87	50.84	6,800	380[4]	<68[4]	<0.5	<0.5	87	700	<0.5	<0.5	<0.5	86	1,200	190	62	25	4.0	-
MW-8 DUP	05/23/2013	61.71	10.87	50.84	7,000	380[4]	<68[4]	<0.5	0.5	100	810	<0.5	<0.5	<0.5	94	1,300	240	73	29	3.5	-
MW-8	08/29/2013	61.71	12.00	49.71	6,600	340[4]	<66[4]	<0.5	<0.5	60	450	<0.5	<0.5	<0.5	49	680	110	47	20	2.1	-
MW-8 DUP	08/30/2013	61.71	12.00	49.71	3,500	220[4]	<66[4]	<0.5	<0.5	47	350	<0.5	<0.5	<0.5	39	510	83	45	18	1.2	-
MW-8	11/14/2013	61.71	11.52	50.19	8,900	390[4]	<67[4]	<0.5	0.5	79	740	<0.5	<0.5	<0.5	67	1,000	180	65	26	3.1	-
MW-8 DUP	11/14/2013	61.71	11.52	50.19	8,000	320[4]	<67[4]	<0.5	0.6	81	760	<0.5	<0.5	<0.5	66	1,100	180	65	27	3.2	-
MW-8	03/19/2014	61.71	8.73	52.98	8,400	2,400[4]	<67[4]	<0.5	<0.5	33	370	<0.5	<0.5	<0.5	57	800	250	28	12	12.6	-
MW-8 DUP	03/19/2014	61.71	8.73	52.98	8,800	2,200[4]	110[4]	<0.5	<0.5	42	480	<0.5	<0.5	<0.5	66	960	280	40	17	10.5	-
MW-8	05/28/2014	61.71	10.41	51.30	5,600	860[4]	<67[4]	<0.5	<0.5	50	270	<0.5	<0.5	<0.5	39	740	130	24	13	3.9	-
MW-8 DUP	05/28/2014	61.71	10.41	51.30	5,900	910[4]	<67[4]	<0.5	<0.5	67	330	<0.5	<0.5	<0.5	59	750	190	41	19	4.2	-
MW-8	08/28/2014	61.71	11.95	49.76	11,000	500	<67	<0.5	0.8 J	170	590	<0.5	<0.5	<0.5	70	1,200	180	110	44	1.6	-
MW-8	12/10/2014	61.71	9.66	52.05	9,000	1,600[6]	<66	<1	<1	94	350	<1	<1	<1	65	1,100	210	80	31	4.4	-
MW-8	03/12/2015	61.71	10.56	51.15	9,300	790[6]	<66	<1	<1	92	390	<1	<1	<1	83	930	260	55	24	3.5	-
MW-8	05/22/2015	61.71	10.91	50.80	11,000	350	<100	<1	<1	150	700	<1	<1	<1	97	1,400	210	91	40	1.4	-
MW-8	8/11/2015	61.71	12.56	49.15	9,000	500[5]	<66	<1	<1	140	570	<1	<1	<1	70	1,100	160	79	33	1.2	-
MW-8	12/22/2015	61.71	7.17	54.54	12,000	1,000	<66	<0.5	<0.5	63	290	<0.5	<0.5	<0.5	44	780	220	57	26	5.6	-
MW-8	**02/26/2016**	**61.71**	**8.71**	**53.00**	**7,900**	**910**	**200 J**	**<0.5**	**<0.5**	**36**	**120**	**<0.0095**	**<0.5**	**<0.5**	**18**	**620**	**170**	**52**	**21**	**4.3**	**-**
MW-9	08/31/2011	62.58	14.29	48.29	<50	78	<68	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-9	12/15/2011	62.58	13.01	49.57	<50	<29	<67	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-9	02/06/2012	62.58	12.04	50.54	66	<300	<700[1]	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-9	05/30/2012	52.58	12.53	40.05	66	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	0.31	0.007248
MW-9	08/08/2012	62.58	13.37	49.21	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.87	-
MW-9	12/05/2012	62.58	12.05	50.53	<50	39[4]	<69[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.33	-
MW-9	02/26/2013[5]	62.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	05/24/2013	62.58	13.05	49.53	100	<29[4]	<68[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.24	-

Table 1

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Chevron Site 301233
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Seattle, Washington

					HYDROCARBONS			PRIMARY VOCS												
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-9	08/29/2013	62.58	14.77	47.81	<50	51[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.085	-
MW-9	11/13/2013	62.58	13.41	49.17	120	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.087	-
MW-9	03/18/2014	62.58	12.07	50.51	96	37[4]	<66[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.087	-
MW-9	05/27/2014	62.58	12.97	49.61	64	50[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.092	-
MW-9	08/28/2014	62.58	14.73	47.85	<50	44 J	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.12 J	-
MW-9	12/10/2014	62.58	12.12	50.46	81 J	56 J	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.082	-
MW-9	03/12/2015	62.58	12.72	49.86	60 J	86 J	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.16 J	-
MW-9	05/21/2015	62.58	13.57	49.01	84 J	62 J	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.17 J	-
MW-9	8/10/2015	62.58	15.46	47.12	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.13	-
MW-9	12/21/2015	62.58	11.69	50.89	51 J	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.13	-
MW-9	**02/25/2016**	**62.58**	**11.96**	**50.62**	**<50**	**<28**	**<66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.0095**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**<0.13**	**-**
MW-10	08/31/2011	58.96	11.94	47.02	<50	260	100	2	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-10	12/15/2011	58.96	11.13	47.83	51	<28	<66	3	<0.7	<0.8	0.8	<1	<1	<0.5	<1	<1	<1	2	<1	-	-
MW-10	02/06/2012	58.96	10.44	48.52	<50[2]	<29	<68	1	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	3	1	-	-
MW-10	05/30/2012	58.96	10.77	48.19	<50	74	<66	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	0.46	0.007248
MW-10 DUP	05/30/2012	58.96	10.77	48.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49	-
MW-10	08/07/2012	58.96	11.41	47.55	110	130[4]	<68[4]	1	<0.5	<0.5	1	<0.5	<0.5	<0.5	<1	<1	<1	10	4	<0.034	-
MW-10	12/06/2012	58.96	11.31	47.65	130	220[4]	<72[4]	3	0.6	<0.5	4	<0.5	<0.5	<0.5	<1	<1	<1	24	10	0.28	-
MW-10	02/27/2013	58.96	10.49	48.47	<50	71[4]	<69[4]	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	2	<1	<0.073	-
MW-10	05/24/2013	58.96	10.94	48.02	<50	<29[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.073	-
MW-10	08/30/2013	58.96	12.13	46.83	<50	57[4]	<66[4]	0.8	<0.5	<0.5	1	<0.5	<0.5	<0.5	<1	<1	<1	3	1	0.10	-
MW-10	11/13/2013	58.96	11.76	47.20	210	50[4]	<67[4]	2	<0.5	<0.5	3	<0.5	<0.5	<0.5	<1	1	<1	13	5	0.39	-
MW-10	03/18/2014	58.96	11.29	47.67	520	190[4]	<66[4]	2	0.7	<0.5	6	<0.5	<0.5	<0.5	<1	<1	<1	40	20	<0.085	-
MW-10	05/27/2014	58.96	10.14	48.82	<50	74[4]	<67[4]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	2	<1	0.11	-
MW-10	08/29/2014	58.96	11.63	47.33	<50	90 J	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.43 J	-
MW-10	12/10/2014	58.96	9.45	49.51	140 J	140	<65	1	<0.5	<0.5	2	<0.5	<0.5	<0.5	<1	<1	<1	12	5	0.23 J	-
MW-10	03/12/2015	58.96	10.29	48.67	99 J	100	<67	0.5 J	<0.5	<0.5	0.6 J	<0.5	<0.5	<0.5	<1	<1	<1	4 J	2 J	<0.082	-
MW-10	05/22/2015	58.96	10.85	48.11	<50	<46	<100	<3	<3	<3	<3	<3	<3	<3	<5	<5	<5	<5	<5	0.096 J	-
MW-10	8/11/2015	58.96	12.05	46.91	<50	100	<66	0.6 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.13	-

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					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-10	12/22/2015	58.96	8.71	50.25	630	110	<66	2	0.6 J	<0.5	4	<0.5	<0.5	<0.5	<1	<1	<1	26	12	<0.13	-
MW-10	**02/26/2016**	**58.96**	**9.33**	**49.63**	**300**	**110**	**<67**	**1**	**<0.5**	**<0.5**	**2**	**<0.0096**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**14**	**6**	**<0.13**	**-**
MW-11	08/28/2014	-	11.23	-	580[7]	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.22 J	-
MW-11	12/10/2014	-	9.66	-	560[7]	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.20 J	-
MW-11	03/12/2015	-	10.63	-	480[7]	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	10.0	-
MW-11	05/21/2015	-	10.81	-	500[7]	<45	<100	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	0.17 J	-
MW-11	08/10/2015	-	11.53	-	480[7]	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.18 J	-
MW-11	12/21/2015	-	9.15	-	760	<28	<66	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<0.13	-
MW-11	**02/25/2016**	**-**	**9.89**	**-**	**740**	**<29**	**<67**	**<1**	**<1**	**<1**	**<1**	**<0.096**	**<1**	**<1**	**<2**	**<2**	**<2**	**<2**	**<2**	**0.28 J**	**-**
MW-12	03/12/2015	-	10.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	05/21/2015	-	10.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	08/10/2015	-	12.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	12/21/2015	-	7.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	**02/25/2016**	**-**	**8.95**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-13	08/28/2014	-	10.10	-	<50	41 J	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.7	-
MW-13	12/10/2014	-	8.78	-	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.81 J	-
MW-13	03/12/2015	-	9.42	-	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.68 J	-
MW-13	05/21/2015	-	9.29	-	<50	<46	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.55 J	-
MW-13	08/10/2015	-	10.51	-	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	8.0	-
MW-13	12/21/2015	-	8.31	-	89 J	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.89 J	-
MW-13	**02/25/2016**	**-**	**8.78**	**-**	**<50**	**<29**	**<67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.0095**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.70 J**	**-**
Trip Blank	08/08/2012	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	12/05/2012	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	02/26/2013	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-

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					HYDROCARBONS			PRIMARY VOCS													
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Trip Blank	05/23/2013	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Trip Blank	08/29/2013	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	11/13/2013	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Trip Blank	03/19/2014	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Trip Blank	05/27/2014	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	08/28/2014	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	12/10/2014	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	03/12/2015	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	05/21/2015	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	08/10/2015	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	12/21/2015	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	-	-

Abbreviations and Notes

TOC = Top of casing
DTW = Depth to water
GWE = Groundwater elevation
(ft-amsl) = Feet above mean sea level
ft = Feet
µg/L = Micrograms per liter
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
TPH-HRO = Total petroleum hydrocarbons - oil range organics
VOCS = Volatile organic compounds
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylene's (Total)
Xylenes = o-xylene + m,p-xylene

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Seattle, Washington

					HYDROCARBONS			PRIMARY VOCS												
Location	Date	TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	N-Propylbenzene	Isopropyl benzene	Lead (Total)	cPAHs
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

BTEX = Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B; except the April 25, 1990 sample from EW-1 analyzed by EPA Method 8020

EDB = 1,2 Dibromoethane analyzed by EPA Method 8011

EDC = 1,2 Dichloroethane analyzed by EPA Method 8260B

MTBE = Methyl tert butyl ether

cPAHs = Carcinogenic Polycyclic Aromatic Hydrocarbons analyzed by EPA Method 8270c Selective Ion Monitoring

Total Lead analyzed by EPA Method 6020

-- = Not available / not applicable.I286

<x = Not detected above laboratory method detection limit.

1 Reporting limits were raised due to interference from the sample matrix. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

2 A preserved vial was submitted for analysis. However, the pH at the time of analysis was 4.

3 Well not sampled - well not found.

4 Analysis with silica-gel cleanup.

5 Inaccessible.

6 TPHd concentration may be due to the overlap of TPHg during analysis.

7 The presence of TPHg may be due to PCE eluting within the gasoline range during analysis.

Attachment A
Monitoring Data Package

WELL GAUGING DATA

Project # 160225-LBI Date 2/25/16 Client GHD

Site 2800 MARTIN LUTHER KING WAY S, SEATTLE, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or ~~TOC~~	Notes
MW-1	0846	2					9.56	22.58		
MW-2	0885	2					9.19	21.36		
MW-3	0911	2					9.33	20.08		
MW-4	0850	2					9.23	19.05		
MW-5	0905	1					9.01	19.09		
MW-6	0919	2					11.49	19.81		
MW-7	0924	2					10.43	19.79		
MW-8	0936	2					8.71	19.82		
MW-9	0841	2					11.96	23.59		
MW-10	0931	2					9.33	19.91		
MW-11	0832	2					9.89	19.41		
MW-12	0942	4					8.95	22.71		
MW-13	0837	2					8.78	17.73	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160225-LB	Client: GAP
Sampler: LB	Gauging Date: 2/25/16
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 22.58	Depth to Water (ft.): 9.56
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI ~~556~~ PRO PLUS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump

Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1202 Flow Rate: 200 mL/MIN Pump Depth: 16.5'

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.)
1205	13.6	6.89	385	35	1.05	-110.4	600	9.59
1208	13.7	6.95	386	27	0.98	-115.4	1200	9.59
1211	13.5	6.94	388	27	0.96	-118.0	1800	9.59
1214	13.5	6.92	386	25	0.94	-119.7	2400	9.59
1217	13.4	6.91	385	25	0.95	-120.1	3000	9.59

Did well dewater? Yes (No) Amount actually evacuated: ~~1218~~ 3L

Sampling Time: 1218 Sampling Date: 2/25/16

Sample I.D.: GW-022516-LB-MW-1 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Others) SEE COC

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160225-LB1	Client: GHD
Sampler: LB	Gauging Date: 2/25/16
Well I.D.: MW-2	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 21.36	Depth to Water (ft.): 9.19
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI PRO PLUS

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: 15.5'

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.)
1325	13.8	6.26	484	31	0.81	-148.2 ~~-281.3~~	600	9.23
1328	13.9	6.24	488	32	0.73	-153.4	1200	9.23
1331	13.8	6.26	487	30	0.70	-155.6	1800	9.23
1334	14.0	6.27	485	28	0.68	-156.2	2400	9.23
1337	14.1	6.28	484	27	0.67	-157.8	3000	9.23

Did well dewater? Yes (No) Amount actually evacuated: 3L

Sampling Time: 1338 Sampling Date: 2/25/16

Sample I.D.: GW-022516-LB-MW-2 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: SEE COC

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 120225-LB1	Client: GHD
Sampler: LB	Gauging Date: 2/25/16
Well I.D.: MW-3	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 20.08	Depth to Water (ft.): 9.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

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

Start Purge Time: 1405 Flow Rate: 200 mL / MIN Pump Depth: 15'

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.)
1408	14.4	6.33	350	20	0.81	-158.2	600	9.38
1411	14.3	6.32	351	18	6.78	-159.6	1200	9.38
1414	14.1	6.30	352	15	0.75	-160.8	1800	9.38
1417	14.2	6.31	353	16	0.74	-161.4	2400	9.38
1420	14.2	6.31	354	15	0.73	-162.3	3000	9.38

Did well dewater? Yes (No)	Amount actually evacuated: 3L
Sampling Time: 1421	Sampling Date: 2/25/16
Sample I.D.: GW-022516-LB-MW-3	Laboratory: LANCASTER
Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D)	Other: SEE COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160225-LB1	Client: GHD
Sampler: LB	Gauging Date: 2/25/16
Well I.D.: MW-4	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.05	Depth to Water (ft.): 9.23
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

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

Start Purge Time: 1242 Flow Rate: 200 mL / MIN Pump Depth: 14.5'

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.)
1245	13.6	6.21	350	33	0.54	-129.0	600	9.29
1248	13.6	6.23	549	29	0.51	-130.8	1200	9.29
1251	13.7	6.23	550	19	0.49	-132.4	1800	9.29
1254	13.8	6.24	551	18	0.48	-133.1	2400	9.29
1257	13.6	6.25	552	16	0.47	-135.1	3000	9.29

Did well dewater? Yes (No)	Amount actually evacuated: 3L
Sampling Time: 1258	Sampling Date: 2/25/16
Sample I.D.: GW-022516-LB-MW-4	Laboratory: LANCASTER
Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D)	Other: (SEE COC)
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160225-LBJ	Client: GHD
Sampler: LB	Gauging Date: 2/25/16
Well I.D.: MW-5	Well Diameter (in.): 2 3 4 6 8 (1)
Total Well Depth (ft.): 19.09	Depth to Water (ft.): 9.01
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

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

Start Purge Time: 0957 Flow Rate: 200 mL/MIN Pump Depth: 14.5'

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.)
1000	12.7	6.15	248	47	1.02	-76.0	600	9.08
1003	12.7	6.23	246	48	0.94	-82.3	1200	9.08
1006	12.5	6.27	247	49	0.93	-85.1	1800	9.08
1009	12.4	6.28	248	48	0.92	-86.6	2400	9.08
1012	12.5	6.29	249	49	0.91	-87.4	3000	9.08

Did well dewater? Yes (No) Amount actually evacuated: 3L

Sampling Time: 1013 Sampling Date: 2/26/16

Sample I.D.: GW-022616-LB-MW-5 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: SEE COC

Equipment Blank I.D.: @ Time Duplicate I.D.: GW-022616-LB-DUP

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160225-LB1	Client: GHD
Sampler: LB	Gauging Date: 2/25/16
Well I.D.: MW-6	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.81	Depth to Water (ft.): 11.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI PRO PLUS

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

Start Purge Time: 0826 Flow Rate: 200mL/MIN Pump Depth: 16'

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.)
0829	13.1	6.33	913	14	0.90	-93.2	600	11.53
0832	13.3	6.38	906	9	0.87	-95.8	1200	11.53
0835	13.5	6.41	912	11	0.86	-96.4	1800	11.53
0838	13.6	6.42	910	10	0.84	-97.1	2400	11.53
0841	13.7	6.42	909	11	0.83	-98.4	3000	11.53

Did well dewater? Yes (No) Amount actually evacuated: 3L

Sampling Time: 0842 Sampling Date: 2/26/16

Sample I.D.: GW-022516-LB-MW-6 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: SEE COC

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160225-LB1	Client: GHD
Sampler: LB	Gauging Date: 2/25/16
Well I.D.: MW-7	Well Diameter (in.) : (2) 3 4 6 8 ___
Total Well Depth (ft.) : 19.79	Depth to Water (ft.) : 10.43
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI ~~55~~ PRO PLUS

Purge Method: 2" Grundfos Pump | (Peristaltic Pump) | Bladder Pump
Sampling Method: Dedicated (Tubing) | New Tubing | Other ___

Start Purge Time: 0911 Flow Rate: 200 mL/min Pump Depth: 15.5'

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.)
0914	14.4	6.29	433	12	0.91	-98.4	600	10.48
0917	14.4	6.31	423	13	0.86	-94.3	1200	10.48
0920	14.3	6.31	424	12	0.84	-96.9	1800	10.48
0923	14.2	6.32	425	11	0.83	-97.4	2400	10.48
0926	14.3	6.33	426	12	0.82	-98.7	3000	10.48

Did well dewater? Yes (No) Amount actually evacuated: 3L

Sampling Time: 0927 Sampling Date: 2/26/16

Sample I.D.: GW-022616-LB-MW-7 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Other) SEE COC

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160225-LB1	Client: GHD
Sampler: LB	Gauging Date: 2/25/16
Well I.D.: MW-8	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.82	Depth to Water (ft.): 8.71
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: 1044 Flow Rate: 200 mL/min Pump Depth: 14.5'

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.)
1047	13.0	6.32	480	56	0.31	-190.2	600	8.75
1050	12.9	6.40	481	44	0.30	-191.3	1200	8.75
1053	12.9	6.38	480	35	0.29	-192.0	1800	8.75
1056	12.8	6.37	479	36	0.28	-193.6	2400	8.75
1059	12.7	6.36	478	35	0.27	-194.4	3000	8.75

Did well dewater? Yes (No) Amount actually evacuated: 3L

Sampling Time: 1100 Sampling Date: 2/26/16

Sample I.D.: GW-022616-LB-MW-8 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: SEE COC (MS/MSD)

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160225-LB1	Client: GHD
Sampler: LB	Gauging Date: 2/25/16
Well I.D.: MW-9	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 23.59	Depth to Water (ft.): ~~9.33~~ 11.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: ~~PVC~~ Grade	Flow Cell Type: YSI PRO PLUS

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

Start Purge Time: 1125 Flow Rate: 200 mL/MIN Pump Depth: 18'

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.)
1128	13.7	6.33	500	28	0.86	-105.9	600	11.97
1131	13.7	6.28	491	20	0.85	-114.6	1200	11.97
1134	13.8	6.23	486	10	0.83	-115.6	1800	11.97
1137	13.7	6.21	485	9	0.82	-116.7	2400	11.97
1140	13.6	6.22	484	10	0.81	-117.8	3000	11.97

Did well dewater? Yes ~~NO~~ Amount actually evacuated: 3L

Sampling Time: 1141 Sampling Date: 2/25/16

Sample I.D.: GW-022516-LB-MW-9 Laboratory: LANCASTER

Analyzed for: ~~TPH-G~~ (BTEX) MTBE ~~TPH-D~~ Other: SEE COC

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160225-LBJ	Client: GHD
Sampler: LB	Gauging Date: 2/25/16
Well I.D.: MW-10	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.91	Depth to Water (ft.): 9.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

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

Start Purge Time: 0744 Flow Rate: 200 mL / MIN Pump Depth: 15'

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.)
0747	14.4	7.09	2231	8	1.05	-48.1	600	9.38
0750	14.7	7.16	2239	4	0.95	-50.5	1200	9.38
0753	14.6	7.21	2240	3	0.94	-53.7	1800	9.38
0756	14.7	7.22	2241	3	0.93	-54.3	2400	9.38
0759	14.6	7.23	2242	1	0.92	-55.4	3000	9.38

Did well dewater? Yes (No) Amount actually evacuated: 3L

Sampling Time: 0800 Sampling Date: 2/26/16

Sample I.D.: GW-022616-LB-MW-10 Laboratory: LANCASTER

Analyzed for: (TRH-G) (BTEX) MTBE (TPH-D) Other: SEE COC

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160225-LB1	Client: GHD
Sampler: LB	Gauging Date: 2/25/16
Well I.D.: MW-11	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 19.41	Depth to Water (ft.): 9.89
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" Grundfos Pump (Peristaltic) Pump Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other____

Start Purge Time: 1000 Flow Rate: 200 mL/MIN Pump Depth: 15'

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.)
1003	13.1	6.30	519	56	6.61	-114.9	600	9.93
1006	12.9	6.32	515	48	0.58	-116.8	1200	9.93
1009	13.0	6.31	513	45	0.54	-117.6	1800	9.93
1012	13.1	6.29	514	44	0.53	-118.5	2400	9.93
1015	13.0	6.28	515	43	0.62	-119.6	3000	9.93

Did well dewater? Yes (No)	Amount actually evacuated: 3L
Sampling Time: 1016	Sampling Date: 2/25/16
Sample I.D.: GW-022516-LB-MW-11	Laboratory: LANCASTER
Analyzed for: (TPH-G) BTEX MTBE (TPH-D)	Other: SEE COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160225-LB1	Client: GHD
Sampler: LB	Gauging Date: 2/25/16
Well I.D.: MW-13	Well Diameter (in.) : (2) 3 4 6 8 ____
Total Well Depth (ft.) : 17.73	Depth to Water (ft.) : 8.78
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI PRO PLUS

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

Start Purge Time: 1034 Flow Rate: 200 mL/MIN Pump Depth: 13.5'

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.)
1037	12.9	6.26	594	122	0.41	-129.1	600	8.81
1040	13.0	6.29	590	75	0.42	-130.6	1200	8.81
1043	13.1	6.28	585	60	0.40	-134.2	1800	8.81
1046	13.0	6.27	584	59	0.39	-135.4	2400	8.81
1049	13.1	6.27	583	58	0.38	-136.5	3000	8.81

Did well dewater? Yes (No)	Amount actually evacuated: 3L
Sampling Time: 1050	Sampling Date: 2/25/16
Sample I.D.: GW-022516-LB-MW-13	Laboratory: LANCASTER
Analyzed for: (TPH-G) BTEX MTBE (TPH-D)	Other: SEE COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

WELLHEAD INSPECTION FORM

Client: GHD Site: 2800 Martin Luther King Way S, Seattle Date: 2/25/16

Job #: 160225-LB1 Technician: L. Bures Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency: Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)
MW-1	X														
MW-2						2/3	1/3								
MW-3						3/3									
MW-4	X														
MW-5	X														
MW-6	X														
MW-7						1/3									
MW-8	X														
MW-9	X														
MW-10	X														
MW-11	X														
MW-12	X														
MW-13	X														

NOTES:

Groundwater Monitoring JSA

Groundwater Monitoring

Date: 2/25/16

Location: Tidewater Seattle

Onsite Work Crew: GHD, BTS

Development Team	Document Control System & Issue Authority	
Bart Gebbie, Director of Client Services; Francis Thie, Vice President; Richard Blaine, Vice President	Approved by: Francis Thie, Vice President, 02/22/16	Issue Authority: Francis Thie, Vice President, 02/22/16

Work Type	Routine GW monitoring
JSA Type	Summary JSA
Organization	Blaine Tech Services, Inc.

PPE -- Personal Protective Equipment	Required (Y/N)	PPE -- Personal Protective Equipment	Required (Y/N)
Steel Toed Safety Shoes	Y / N	Respirator	Y / N
Hi-Viz Safety Vest (Class 2)	Y / N	Hard Hat	Y / N
Safety Glasses	Y / N	Rain Gear	Y / N
Goggles	Y / N	Snake Gators	Y / N
Face Shield	Y / N	Tyvek Coveralls	Y / N
Nitrile Gloves	Y / N	Fire Resistant Clothing (FRC)	Y / N
Kevlar Gloves	Y / N	Knee Pads	Y / N
Rubber/Neoprene Gloves	Y / N	Hi-Viz Safety Jacket or Pants (Class 3)	Y / N
Hearing Protection	Y / N	Other (list)	Y / N

Additional Items Reviewed & Actions Performed (check all that apply)

- [x] Stop Work Authority
- [ ] Hazard ID Wheel
- [ ] Serious Injuries/Fatalities Hazards
- [ ] SSE Identified
- [ ] BBS Observations

START WORK:

Every new work activity warrants a pause to observe and evaluate conditions at the job site. Stop long enough to assess the work, the workplace and activities occurring around the workplace. An **SPSA** is the minimum action you should perform. Other situations will require more elaborate **Self-Permit** or **Permit-to-Work** procedures. **Pause** each time you need to continue your current work activity in **a new location**; or start **a new work activity**; or **move** your motor vehicle or **walk-to** a place outside the delineated work zone.

STOP WORK:

If you are not sure the work can be performed safely, you must hold off, pull back and contact the Blaine Tech Project Manager.

	Task	Hazard(s)	Hazard Control Measure(s)	Person(s) Responsible
	1 Plan Obtain the job folder and review the assignment documents: • Special Hazard Notice • Scope of Work • JMP • HASP • Traffic Control Plan	Failure to read and understand the assignment prevents adequate Planning and Preparation.	1. Read/understand the assignment documentation 2. Plan the work using the applicable JSA 3. Review the lists of equipment, PPE and materials needed to perform the assignment If you opt to do the Tailgate Safety Session at the office, follow up w/ a full Recon and Comm Check from the site to the Project Manager.	LB
	2 Prep Truck / Load Equipment	Eye or Hand injury (pinch/crush/laceration) while loading tools, instruments and equipment. Back injury handling heavy equipment. Struck by someone else's handled equipment / Striking someone else with your handled equipment Slip/Trip/Fall in garage. Struck by other driver in tight confines of garage.	1. **Wear Kevlar gloves, Safety Glasses or Goggles; and Hi-Viz Safety Vest** 2. Verify pumps are strapped to reels prior to handling 3. Load heavier equipment as low possible on truck 4. Practice Safe Lifting Procedures 5. Ensure area is clear before moving or rotating equipment, particularly long items 6. Exercise extreme caution when on foot in the garage 7. Do not climb on truck (except on designated stirrups, steps and bed-height platforms) 8. Face vehicle and always maintain 3 points of contact when stepping up/down to/from bed	LB
	3 Mobilization / Demobilization	Every MOVE made with a motor vehicle involves some risk of serious harm to our personnel and others. Arrival is especially hazardous as our vehicle must pass through the near-site zone with pedestrians on sidewalks. On the site, customers are maneuvering their vehicles and walking about as pedestrians. Improperly fastened load may come loose and fly off vehicle and become a hazard to pedestrians or other motorists.	1. Practice Safe Motor Vehicle Operations Rules & Smith System Safe Driver principles 2. **Conduct Daily Pre-Trip inspection** 3. **Ensure that all required safety chains and straps are in place and functional** • **Cabinet Latches** • **Load Bearing Chains & Straps** • **Pump Reel Strap** 4. **Verify clean and functioning back-up camera** (Camera functionality is considered an unsafe condition which requires an immediate Stop Work & Report) 5. Use Spotter if required for maneuvering	LB

	Task	Hazard(s)	Hazard Control Measures(s)	Person(s) Responsible
	4 Entry and Contact	Failure to notify site personnel can produce upsets and misunderstandings. Site personnel must know you are present at the site to assist you if there is an incident, accident or emergency.	**Wear Hi-Viz Safety Vest** Contact the site manager or representative / Review your planned scope of work and discuss potential site impacts	LB
	5 Site Recon / Permit to Work / HASP It is never safe to perform work until you have personally determined it is safe for you to perform that work. .	Commencing work without conducting a hazard assessment of the site could result in injuries and incidents.	**Wear Hi-Viz Safety Vest** Conduct hazard assessment of site prior to commencing activities. If other contractors are present onsite and in close proximity, seek out and speak with their representatives. Ascertain what they are doing how their work might impact your safety. Complete the Tailgate Safety Session and HASP sign-off. Note the range of chemical hazards in the Supporting Information portion of the Folder and review any Special Hazard Notices. Contact the Project Manager is any unforeseen hazards exist to discuss the appropriate course of action.	LB
	6 Onsite Maneuvering	Monitoring work is a series of motor vehicle MOVES and dismounted WORK activities. Each MOVE contains hazards to the Technician, pedestrians and other motorists in the area.	1. Plan each onsite maneuver so as to **avoid backing** whenever possible. 2. Visually confirm that the intended route to the next well and the area around the next well are clear prior to initiating movement. **3. Perform a 360 degree walk-a-round (GOAL) just prior to any vehicle movement.** 4. Verify clean and functioning back-up camera. 5. Activate supplemental roof, side and rear facing LED strobe lights. 6. Use a spotter for backing-up if the camera is not functioning properly. 7. Use a spotter for backing-up while connected to a trailer. 8. **Be patient and flexible.** If the area around the vehicle, the pathway or the target location is busy or congested, wait or find another location to perform work at until area is clear.	LB

	Task	Hazard(s)	Hazard Control Measure(s)	Person(s) Responsible
	7 Creating Work Areas	Distracted motorists pose a hazard to all pedestrians, dismounted workers and vehicles. Vehicles on and off the site may be being operated by inattentive and distracted drivers.	1. **Wear Kevlar gloves, Safety Glasses or Goggles; and Hi-Viz Safety Vest** 2. Establish work area quickly 3. Stay close to any large physical object (e.g. Sampling Vehicle, building, pump island, etc.) that motorists will instinctively avoid. 4. Use safe travel pathway away from traffic. 5. Extend a clearly delineated work zone from your vehicle. Make it large and work well inside the work zone. 6. Make yourself as visible as possible. 7. Stay inside your work zone. 8. Avoid all dismounted walk-to activities that make you a pedestrian.	LB
	8 Opening Well Vault Using wellhead tool or ratchet set	When you are bent over, there is a significant risk of being struck by a moving motor vehicle. Back strain when opening well lid Pinched Fingers and Minor cuts while opening well lid or moving well lid Biological Hazards Slips/Trips/Falls	1. **Wear Kevlar gloves, Safety Glasses or Goggles; and Hi-Viz Safety Vest** 2. Do not open a well vault as a dismounted walk-to-activity. Extend a clearly delineated work zone from your vehicle. Avoid all dismounted walk to activities that make you a pedestrian. 3. Bend at the knees and lift with legs/arms, not back. Keep objects close to body and do not twist while lifting. Do not attempt to lift vault lids over 50 lbs. Use puller hook to assist lifting vaults with handles. 4. Look for signs of insect activity. Do not reach your hands where you cannot see them. 5. Keep work zone clear of unnecessary objects. 6. Remove any potential hazards from work area.	LB
	9 Well Gauging Using Electronic Water Level Meter	When you are bent over, there is a significant risk of being struck by a moving motor vehicle. Extended time kneeling Dermal absorption hazard	1. **Wear Nitrile over Kevlar gloves, Safety Glasses or Goggles; and Hi-Viz Safety Vest** 2. Do not perform well gauging as a dismounted walk-to-activity. Extend a clearly delineated work zone from your vehicle. Avoid all dismounted walk to activities that make you a pedestrian. 3. Use **Knee Pad(s)** if kneeling for extended periods of time.	LB

	Task	Hazard(s)	Hazard Control Measure(s)	Person(s) Responsible
	10 Deploying Pump & Hose	Freewheeling hose reel Ergonomics-back strain/lifting hazard while handling, lowering, and raising pump Dermal absorption hazard	1. **Wear Nitrile over Kevlar gloves, Safety Glasses or Goggles; and Hi-Viz Safety Vest** 2. Where equipped, confirm that Pump Reel Drag Brake is in safe, operational conditions. 3. Follow the **"TWO HAND RULE"** protocol: Techs deploying/recovering pump & hose assemblies into groundwater monitoring wells are required to use both hands at all times and to actively control the pump, the hose and the hose reel. 4. **STAND BACK**: Never attempt to stop a free-wheeling hose reel. Stand clear until the reel stops spinning. Instruct others to do the same. 5. Bend at the knees and lift with legs/arms, not back. Keep objects close to body and do not twist while lifting. If you are experiencing more than moderate effort to raise the pump stop work.	LB
	11 Well Purging	Electric shock Water under pressure Chemical inhalation hazard Chemical dermal exposure Back strain (lifting full 5 gal. buckets)	1. **Wear Nitrile over Kevlar gloves, Safety Glasses or Goggles; and Hi-Viz Safety Vest** 2. Inspect all cords and connectors before use. Confirm GFCI in use. Perform routine bonding checks of all electrical components to truck frame 3. Inspect all hoses and connectors before use. 4. Work in a well-ventilated area, Always stand upwind from any potential hazard sources. If you smell vapors, stand back and wait to dissipate. 5. Bend at the knees and lift with legs/arms, not back. Keep objects close to body and do not twist while lifting. Use Bucket Tipper to avoid the need to lift buckets. If necessary only lift one bucket at a time.	LB
	12 Recovering Pump & Hose	See #10.	See #10. Take breaks as needed when recovering pumps from depth.	LB
	13 Sample Collection Using bailer	Splash Hazard to eyes and dermal hazard to skin from groundwater or preservative in sampling containers Broken Glass Sampling Containers Inhalation Hazard	1. **Wear Nitrile over Kevlar gloves, Face Shield or Goggles; and Hi-Viz Safety Vest** 2. Keep face away from open sampling containers. Only sample in open ventilated area.	LB

	Task	Hazard(s)	Hazard Control Measure(s)	Person(s) Responsible
	14 Equipment Decontamination Using detuned Hotsy pressure washer, 29.5" sprayer wand and integrated decontamination sink and	Pressurized hoses from pressure washer Pressurized Spray from pressure washer Dermal Hazard Splash Hazard	**1. Wear Insulating Neoprene gloves, Safety Shield or Goggles; and Hi-Viz Safety Vest** 2. Inspect all hoses and connectors before use. Ensure whip checks are on pressure washer handles. 3. Use 29.5" wand equipped handle. 4. Minimize splashing and agitation within sink 5. If shirt becomes wet, change into dry shirt.	LB
	15 Personnel Decontamination	Groundwater contains quantified levels of identified hazardous chemicals. Groundwater often contains other chemical hazards that have not been identified or quantified. Groundwater is assumed to contain Biological Hazards in the form of untreated sewage, sewer water and unregulated surface water run-off.	Thoroughly clean and hands and face especially prior to eating and drinking and after working with potentially contaminated materials.	LB

My signature below indicates that I have read this JSA; that I understand the hazards and safe work practices associated with the tasks; and that all requirements and conditions listed above have been verified and met prior to start of work.

Name/Signature LEE BOLES **Date/Time** 2/25/16 0800

Name/Signature JOE LEWANDOWSKI **Date/Time** 02/25/16 0800

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Daily Debrief / Lessons Learned

In addition to noted what worked well and what needs improvement, identify unforeseen hazards and adjustments made to mitigate.

Date / Time	Name(s)	What went well?	What could use improvement?
2/26/16 1145	L. BURES JOE LEWANDOWSKI	COMPLETED ALL WELLS INCIDENT FREE	WELL MAINTANCE

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	GHD @ TIDEWATER SEATTLE			PROJECT NUMBER	160224-LB1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI ProPlus	14C100740	2/25/16 0535	PH 4.0 7.0 10.0	4.01 6.98 10.02	—	15.3	LB
			COND 3900	3898	—	15.4	LB
			ORP 244	236.4	244.1	15.2	LB
			DO 100%	136.4%	100.1%	—	LB
YSI ProPlus	14C100740	2/26/15 0530	PH 4.0 7.0 10.0	3.98 6.99 10.01	—	15.2	LB
			COND 3900	3903	—	15.6	LB
			ORP 244	244.8	—	15.4	LB
			DO 100%	98.6%	—	—	LB

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT | LAB: Lancaster | DHS #

Facility #	P6605173 / Chevron 301233
CLIENT	GHD
SITE	Tidewater Seattle
	2800 Martin Luther King Jr., Way
	Seattle, WA

SPECIAL INSTRUCTIONS

Invoice: As Contracted

Report to: GHD - Matt Davis - 253.573.1218
mdavis@ghdd.com

J Value reporting needed, Must meet lowest detection limit

MS/MSD for NWTPH Gx, NWTPH Dx, VOCs, EDB Only

C = COMPOSITE ALL CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	CONTAINERS Type	C	VOC's Full Scan(8260B)	NWTPH Gx	NWTPH Dx w/SGC	Total Lead	PAH's 8270 SIM	EDB 8011	ADD'L INFORMATION		CONDITION	LAB SAMPLE #
GW1-022516-LB-MW-1	2/25/16	1218	W	13	MIXED		X	X	X	X	X	X				
GW-022516-LB-MW-2		1338	W	13			X	X	X	X	X	X				
GW-022516-LB-MW-3		1421	W	13			X	X	X	X	X	X				
GW1-022516-LB-MW-4		1258	W	13			X	X	X	X	X	X				
GW-022616-LB-MW-5	2/26/16	1013	W	13			X	X	X	X	X	X				
GW-022616-LB-MW-6		0842	W	13			X	X	X	X	X	X				
GW-022616-LB-MW-7		0927	W	13			X	X	X	X	X	X				
GW-022616-LB-MW-8		1100	W	39			X	X	X	X	X	X	MS/MSD			
GW-022516-LB-MW-9	2/25/16	1141	W	13			X	X	X	X	X	X				
GW-022616-LB-MW-10	2/26/16	0800	W	13			X	X	X	X	X	X				
GW-022516-LB-MW-11	2/25/16	1016	W	13			X	X	X	X	X	X				

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	2/26/16	1130	LEE BURES

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	2/26/16				
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT | LAB: Lancaster | DHS #

Facility #	P6605173 / Chevron 301233
CLIENT	GHD
SITE	Tidewater Seattle
	2800 Martin Luther King Jr., Way
	Seattle, WA

SPECIAL INSTRUCTIONS

Invoice: As Contracted

Report to: GHD - Matt Davis - 253.573.1218
mdavis@ghdd.com

J Value reporting needed, Must meet lowest detection limit

MS/MSD for NWTPH Gx, NWTPH Dx, VOCs, EDB Only

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	CONTAINERS Type	C = COMPOSITE ALL CONTAINERS	VOC's Full Scan(8260B)	NWTPH Gx	NWTPH Dx w/SGC	Total Lead	PAH's 8270 SIM	EDB 8011	ADD'L INFORMATION	CONDITION	LAB SAMPLE #
GW-022516-LB-MW-13	2/25/16	1050	W	13	MIXED		X	X	X	X	X	X			
GW-022616-LB-DUP	2/26/16	—	W	13	↓		X	X	X	X	X	X			
GW-022516-LB-TB	2/25/16	0700	W	2	VOA		X	X				X			

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	2/26/16	1130	LEE BURES	Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	2/26/16				
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

Attachment B
Laboratory Analytical Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Report Date: March 15, 2016

Project: 301233 Tidewater Seattle

Submittal Date: 03/01/2016
Group Number: 1636215
PO Number: 4071016
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
GW-022516-LB-MW-1 Water	8265587
GW-022516-LB-MW-2 Water	8265588
GW-022516-LB-MW-3 Water	8265589
GW-022516-LB-MW-4 Water	8265590
GW-022616-LB-MW-5 Water	8265591
GW-022616-LB-MW-6 Water	8265592
GW-022616-LB-MW-7 Water	8265593
GW-022616-LB-MW-8 Water	8265594
GW-022616-LB-MW-8 MS Water	8265595
GW-022616-LB-MW-8 MSD Water	8265596
GW-022516-LB-MW-9 Water	8265597
GW-022616-LB-MW-10 Water	8265598
GW-022516-LB-MW-11 Water	8265599
GW-022516-LB-MW-13 Water	8265600
GW-022616-LB-DUP Water	8265601
GW-022516-LB-TB Water	8265602

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	CRA	Attn: Chevron GWRT
Electronic Copy To	Chevron	Attn: Report Contact
Electronic Copy To	Chevron	Attn: Anna Avina
Electronic Copy To	Conestoga-Rovers & Associates	Attn: Matt Davis
Electronic Copy To	Conestoga-Rovers & Associates	Attn: Jeffrey Cloud
Electronic Copy To	CRA	Attn: Edwin Turner

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: GW-022516-LB-MW-1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265587
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 12:18 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	14	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1

Sample Description: GW-022516-LB-MW-1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265587
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 12:18 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK01

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1
10335	Tetrachloroethene	127-18-4	4		0.5	1
10335	Toluene	108-88-3	N.D.		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	4		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.		1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.		1	1
10335	Vinyl Chloride	75-01-4	0.8	J	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.		0.5	1
10335	o-Xylene	95-47-6	N.D.		0.5	1
10335	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0095	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.		28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		66	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.25	J	0.13	1

Sample Description: GW-022516-LB-MW-1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265587
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 12:18 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK01

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160641AA	03/05/2016 01:53	Caitlin M Carmody	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160641AA	03/05/2016 01:53	Caitlin M Carmody	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/06/2016 12:33	Kelli M Barto	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/04/2016 22:47	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/04/2016 22:47	Brett W Kenyon	1
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 17:49	Heather M Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160680015A	03/09/2016 09:50	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160680015A	03/08/2016 22:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 21:55	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022516-LB-MW-2 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265588
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 13:38 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acetone	67-64-1	N.D.		6	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromobenzene	108-86-1	N.D.		1	1
10335	Bromochloromethane	74-97-5	N.D.		1	1
10335	Bromodichloromethane	75-27-4	N.D.		0.5	1
10335	Bromoform	75-25-2	N.D.		0.5	1
10335	Bromomethane	74-83-9	N.D.		0.5	1
10335	2-Butanone	78-93-3	N.D.		3	1
10335	n-Butylbenzene	104-51-8	2	J	1	1
10335	sec-Butylbenzene	135-98-8	3	J	1	1
10335	tert-Butylbenzene	98-06-6	N.D.		1	1
10335	Carbon Disulfide	75-15-0	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		0.5	1
10335	Chlorobenzene	108-90-7	N.D.		0.5	1
10335	Chloroethane	75-00-3	N.D.		0.5	1
10335	Chloroform	67-66-3	N.D.		0.5	1
10335	Chloromethane	74-87-3	N.D.		0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.		1	1
10335	4-Chlorotoluene	106-43-4	N.D.		1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2	1
10335	Dibromochloromethane	124-48-1	N.D.		0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10335	Dibromomethane	74-95-3	N.D.		0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.		1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.		1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.		1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.		0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.		0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.		0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.		0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.		0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.		0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.		0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	1
10335	Ethylbenzene	100-41-4	5		0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.		2	1
10335	2-Hexanone	591-78-6	N.D.		3	1
10335	Isopropylbenzene	98-82-8	12		1	1
10335	p-Isopropyltoluene	99-87-6	N.D.		1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.		3	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	Naphthalene	91-20-3	N.D.		1	1
10335	n-Propylbenzene	103-65-1	17		1	1
10335	Styrene	100-42-5	N.D.		1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.5	1

Sample Description: GW-022516-LB-MW-2 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265588
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 13:38 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	1
10335	Toluene	108-88-3	N.D.		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	2	J	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	2	J	1	1
10335	Vinyl Chloride	75-01-4	N.D.		0.5	1
10335	m+p-Xylene	179601-23-1	19		0.5	1
10335	o-Xylene	95-47-6	2		0.5	1
10335	Xylene (Total)	1330-20-7	21		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	1.8		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.11		0.010	1
08357	Naphthalene	91-20-3	1.1		0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	790		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0095	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	280		28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		66	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.63	J	0.13	1

Sample Description: GW-022516-LB-MW-2 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265588
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 13:38 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK02

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160692AA	03/09/2016 10:51	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160692AA	03/09/2016 10:51	Nicole S Lamoreaux	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/04/2016 19:16	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/04/2016 23:13	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/04/2016 23:13	Brett W Kenyon	1
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 18:04	Heather M Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160680015A	03/09/2016 10:11	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160680015A	03/08/2016 22:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 21:56	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022516-LB-MW-3 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265589
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 14:21 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK03

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10335	Acetone	67-64-1	N.D.		12	2
10335	Benzene	71-43-2	N.D.		1	2
10335	Bromobenzene	108-86-1	N.D.		2	2
10335	Bromochloromethane	74-97-5	N.D.		2	2
10335	Bromodichloromethane	75-27-4	N.D.		1	2
10335	Bromoform	75-25-2	N.D.		1	2
10335	Bromomethane	74-83-9	N.D.		1	2
10335	2-Butanone	78-93-3	N.D.		6	2
10335	n-Butylbenzene	104-51-8	8	J	2	2
10335	sec-Butylbenzene	135-98-8	7	J	2	2
10335	tert-Butylbenzene	98-06-6	N.D.		2	2
10335	Carbon Disulfide	75-15-0	N.D.		2	2
10335	Carbon Tetrachloride	56-23-5	N.D.		1	2
10335	Chlorobenzene	108-90-7	N.D.		1	2
10335	Chloroethane	75-00-3	N.D.		1	2
10335	Chloroform	67-66-3	N.D.		1	2
10335	Chloromethane	74-87-3	N.D.		1	2
10335	2-Chlorotoluene	95-49-8	N.D.		2	2
10335	4-Chlorotoluene	106-43-4	N.D.		2	2
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		4	2
10335	Dibromochloromethane	124-48-1	N.D.		1	2
10335	1,2-Dibromoethane	106-93-4	N.D.		1	2
10335	Dibromomethane	74-95-3	N.D.		1	2
10335	1,2-Dichlorobenzene	95-50-1	N.D.		2	2
10335	1,3-Dichlorobenzene	541-73-1	N.D.		2	2
10335	1,4-Dichlorobenzene	106-46-7	N.D.		2	2
10335	Dichlorodifluoromethane	75-71-8	N.D.		1	2
10335	1,1-Dichloroethane	75-34-3	N.D.		1	2
10335	1,2-Dichloroethane	107-06-2	N.D.		1	2
10335	1,1-Dichloroethene	75-35-4	N.D.		1	2
10335	cis-1,2-Dichloroethene	156-59-2	1	J	1	2
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		1	2
10335	1,2-Dichloropropane	78-87-5	N.D.		1	2
10335	1,3-Dichloropropane	142-28-9	N.D.		1	2
10335	2,2-Dichloropropane	594-20-7	N.D.		1	2
10335	1,1-Dichloropropene	563-58-6	N.D.		2	2
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	2
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	2
10335	Ethylbenzene	100-41-4	72		1	2
10335	Hexachlorobutadiene	87-68-3	N.D.		4	2
10335	2-Hexanone	591-78-6	N.D.		6	2
10335	Isopropylbenzene	98-82-8	25		2	2
10335	p-Isopropyltoluene	99-87-6	3	J	2	2
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		1	2
10335	4-Methyl-2-pentanone	108-10-1	N.D.		6	2
10335	Methylene Chloride	75-09-2	N.D.		4	2
10335	Naphthalene	91-20-3	24		2	2
10335	n-Propylbenzene	103-65-1	70		2	2
10335	Styrene	100-42-5	N.D.		2	2
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1	2

Sample Description: GW-022516-LB-MW-3 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265589
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 14:21 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK03

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	2
10335	Tetrachloroethene	127-18-4	N.D.		1	2
10335	Toluene	108-88-3	N.D.		1	2
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		2	2
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		2	2
10335	1,1,1-Trichloroethane	71-55-6	N.D.		1	2
10335	1,1,2-Trichloroethane	79-00-5	N.D.		1	2
10335	Trichloroethene	79-01-6	N.D.		1	2
10335	Trichlorofluoromethane	75-69-4	N.D.		1	2
10335	1,2,3-Trichloropropane	96-18-4	N.D.		2	2
10335	1,2,4-Trimethylbenzene	95-63-6	840		20	20
10335	1,3,5-Trimethylbenzene	108-67-8	97		2	2
10335	Vinyl Chloride	75-01-4	N.D.		1	2
10335	m+p-Xylene	179601-23-1	180		1	2
10335	o-Xylene	95-47-6	11		1	2
10335	Xylene (Total)	1330-20-7	190		1	2
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.011	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.011	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.011	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	1
08357	Chrysene	218-01-9	N.D.		0.011	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.011	1
08357	1-Methylnaphthalene	90-12-0	7.0		0.011	1
08357	2-Methylnaphthalene	91-57-6	1.9		0.011	1
08357	Naphthalene	91-20-3	22		0.32	10
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	6,900		500	10
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0095	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	410		28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		66	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.45	J	0.13	1

Sample Description: GW-022516-LB-MW-3 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265589
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 14:21 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK03

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160692AA	03/09/2016 14:20	Nicole S Lamoreaux	2
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160692AA	03/09/2016 14:42	Nicole S Lamoreaux	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160692AA	03/09/2016 14:20	Nicole S Lamoreaux	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	N160692AA	03/09/2016 14:42	Nicole S Lamoreaux	20
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/04/2016 19:43	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/06/2016 13:00	Kelli M Barto	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/05/2016 04:19	Brett W Kenyon	10
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/05/2016 04:19	Brett W Kenyon	10
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 18:20	Heather M Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160680015A	03/09/2016 10:33	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160680015A	03/08/2016 22:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 22:02	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022516-LB-MW-4 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265590
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 12:58 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1

Sample Description: GW-022516-LB-MW-4 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265590
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 12:58 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**	**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.	0.0095	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	N.D.	0.13	1

Sample Description: GW-022516-LB-MW-4 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265590
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 12:58 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK04

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160692AA	03/09/2016 11:14	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160692AA	03/09/2016 11:14	Nicole S Lamoreaux	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/04/2016 20:10	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/04/2016 23:38	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/04/2016 23:38	Brett W Kenyon	1
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 18:35	Heather M Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160680015A	03/09/2016 10:55	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160680015A	03/08/2016 22:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 22:03	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022616-LB-MW-5 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265591
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 10:13 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK05

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acetone	67-64-1	N.D.		6	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromobenzene	108-86-1	N.D.		1	1
10335	Bromochloromethane	74-97-5	N.D.		1	1
10335	Bromodichloromethane	75-27-4	N.D.		0.5	1
10335	Bromoform	75-25-2	N.D.		0.5	1
10335	Bromomethane	74-83-9	N.D.		0.5	1
10335	2-Butanone	78-93-3	N.D.		3	1
10335	n-Butylbenzene	104-51-8	3	J	1	1
10335	sec-Butylbenzene	135-98-8	2	J	1	1
10335	tert-Butylbenzene	98-06-6	N.D.		1	1
10335	Carbon Disulfide	75-15-0	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		0.5	1
10335	Chlorobenzene	108-90-7	N.D.		0.5	1
10335	Chloroethane	75-00-3	N.D.		0.5	1
10335	Chloroform	67-66-3	N.D.		0.5	1
10335	Chloromethane	74-87-3	N.D.		0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.		1	1
10335	4-Chlorotoluene	106-43-4	N.D.		1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2	1
10335	Dibromochloromethane	124-48-1	N.D.		0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10335	Dibromomethane	74-95-3	N.D.		0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.		1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.		1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.		1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.		0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.		0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.		0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.		0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.		0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.		0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.		0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	1
10335	Ethylbenzene	100-41-4	18		0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.		2	1
10335	2-Hexanone	591-78-6	N.D.		3	1
10335	Isopropylbenzene	98-82-8	14		1	1
10335	p-Isopropyltoluene	99-87-6	N.D.		1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.		3	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	Naphthalene	91-20-3	4	J	1	1
10335	n-Propylbenzene	103-65-1	40		1	1
10335	Styrene	100-42-5	N.D.		1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.5	1

Sample Description: GW-022616-LB-MW-5 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265591
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 10:13 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK05

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	1
10335	Toluene	108-88-3	N.D.		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	110		1	1
10335	1,3,5-Trimethylbenzene	108-67-8	40		1	1
10335	Vinyl Chloride	75-01-4	N.D.		0.5	1
10335	m+p-Xylene	179601-23-1	40		0.5	1
10335	o-Xylene	95-47-6	4		0.5	1
10335	Xylene (Total)	1330-20-7	44		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.012	J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	0.011	J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	2.6		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.11		0.010	1
08357	Naphthalene	91-20-3	3.4		0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	1,500		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0096	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	180		29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.28	J	0.13	1

Sample Description: GW-022616-LB-MW-5 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265591
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 10:13 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK05

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160701AA	03/10/2016 13:28	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160701AA	03/10/2016 13:28	Nicole S Lamoreaux	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/04/2016 20:37	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/05/2016 00:04	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/05/2016 00:04	Brett W Kenyon	1
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 18:51	Heather M Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160680015A	03/09/2016 11:16	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160680015A	03/08/2016 22:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 22:05	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022616-LB-MW-6 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265592
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 08:42 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1

Sample Description: GW-022616-LB-MW-6 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265592
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 08:42 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK06

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	1
10335	Toluene	108-88-3	N.D.		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.		1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.		1	1
10335	Vinyl Chloride	75-01-4	N.D.		0.5	1
10335	m+p-Xylene	179601-23-1	N.D.		0.5	1
10335	o-Xylene	95-47-6	N.D.		0.5	1
10335	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.011	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.011	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.011	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	1
08357	Chrysene	218-01-9	N.D.		0.011	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.011	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.011	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.011	1
08357	Naphthalene	91-20-3	N.D.		0.032	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0095	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.		28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		66	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.89	J	0.13	1

Sample Description: GW-022616-LB-MW-6 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265592
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 08:42 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK06

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160672AA	03/07/2016 23:46	Caitlin M Carmody	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160672AA	03/07/2016 23:46	Caitlin M Carmody	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/04/2016 21:04	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/05/2016 00:29	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/05/2016 00:29	Brett W Kenyon	1
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 19:06	Heather M Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160680015A	03/09/2016 11:38	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160680015A	03/08/2016 22:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 22:07	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022616-LB-MW-7 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265593
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 09:27 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK07

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	14	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1

Sample Description: GW-022616-LB-MW-7 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265593
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 09:27 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK07

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	1
10335	Toluene	108-88-3	N.D.		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	2		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.		1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.		1	1
10335	Vinyl Chloride	75-01-4	3		0.5	1
10335	m+p-Xylene	179601-23-1	N.D.		0.5	1
10335	o-Xylene	95-47-6	N.D.		0.5	1
10335	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	0.015	J	0.011	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.011	1
08357	Benzo(b)fluoranthene	205-99-2	0.017	J	0.011	1
08357	Benzo(k)fluoranthene	207-08-9	0.012	J	0.011	1
08357	Chrysene	218-01-9	0.014	J	0.011	1
08357	Dibenz(a,h)anthracene	53-70-3	0.013	J	0.011	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.014	J	0.011	1
08357	1-Methylnaphthalene	90-12-0	0.018	J	0.011	1
08357	2-Methylnaphthalene	91-57-6	0.015	J	0.011	1
08357	Naphthalene	91-20-3	N.D.		0.033	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0095	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.		29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	5.9		0.13	1

Sample Description: GW-022616-LB-MW-7 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265593
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 09:27 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK07

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160672AA	03/08/2016 00:09	Caitlin M Carmody	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160672AA	03/08/2016 00:09	Caitlin M Carmody	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/04/2016 21:31	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/05/2016 00:55	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/05/2016 00:55	Brett W Kenyon	1
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 19:53	Heather M Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160680015A	03/09/2016 12:00	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160680015A	03/08/2016 22:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 22:09	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022616-LB-MW-8 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265594
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 11:00 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK08

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10335	Acetone	67-64-1	N.D.		6	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromobenzene	108-86-1	N.D.		1	1
10335	Bromochloromethane	74-97-5	N.D.		1	1
10335	Bromodichloromethane	75-27-4	N.D.		0.5	1
10335	Bromoform	75-25-2	N.D.		0.5	1
10335	Bromomethane	74-83-9	N.D.		0.5	1
10335	2-Butanone	78-93-3	N.D.		3	1
10335	n-Butylbenzene	104-51-8	13		1	1
10335	sec-Butylbenzene	135-98-8	9		1	1
10335	tert-Butylbenzene	98-06-6	N.D.		1	1
10335	Carbon Disulfide	75-15-0	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		0.5	1
10335	Chlorobenzene	108-90-7	N.D.		0.5	1
10335	Chloroethane	75-00-3	N.D.		0.5	1
10335	Chloroform	67-66-3	N.D.		0.5	1
10335	Chloromethane	74-87-3	N.D.		0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.		1	1
10335	4-Chlorotoluene	106-43-4	N.D.		1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2	1
10335	Dibromochloromethane	124-48-1	N.D.		0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10335	Dibromomethane	74-95-3	N.D.		0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.		1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.		1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.		1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.		0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.		0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.		0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	0.6	J	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.		0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.		0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.		0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	1
10335	Ethylbenzene	100-41-4	36		0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.		2	1
10335	2-Hexanone	591-78-6	N.D.		3	1
10335	Isopropylbenzene	98-82-8	21		1	1
10335	p-Isopropyltoluene	99-87-6	7		1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.		3	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	Naphthalene	91-20-3	18		1	1
10335	n-Propylbenzene	103-65-1	52		1	1
10335	Styrene	100-42-5	N.D.		1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.5	1

Sample Description: GW-022616-LB-MW-8 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265594
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 11:00 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK08

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1
10335	Tetrachloroethene	127-18-4	0.8	J	0.5	1
10335	Toluene	108-88-3	N.D.		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	0.6	J	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	620		10	10
10335	1,3,5-Trimethylbenzene	108-67-8	170		1	1
10335	Vinyl Chloride	75-01-4	N.D.		0.5	1
10335	m+p-Xylene	179601-23-1	74		0.5	1
10335	o-Xylene	95-47-6	50		0.5	1
10335	Xylene (Total)	1330-20-7	120		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	14		0.10	10
08357	2-Methylnaphthalene	91-57-6	6.1		0.010	1
08357	Naphthalene	91-20-3	16		0.31	10
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	7,900		500	10
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0095	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	910		28	1
02211	HRO C24-C40 w/Si Gel	n.a.	200	J	66	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	4.3		0.13	1

Sample Description: GW-022616-LB-MW-8 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265594
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 11:00 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK08

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160711AA	03/11/2016 10:19	Nicole S Lamoreaux	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160711AA	03/11/2016 11:28	Nicole S Lamoreaux	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160711AA	03/11/2016 10:19	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	N160711AA	03/11/2016 11:28	Nicole S Lamoreaux	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/04/2016 21:58	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/06/2016 13:27	Kelli M Barto	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/04/2016 19:22	Brett W Kenyon	10
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/04/2016 19:22	Brett W Kenyon	10
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 20:09	Heather M Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160680015A	03/09/2016 13:05	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160680015A	03/08/2016 22:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 21:44	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022616-LB-MW-8 MS Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265595
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 11:00 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK08

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	130	6	1
10335	Benzene	71-43-2	23	0.5	1
10335	Bromobenzene	108-86-1	21	1	1
10335	Bromochloromethane	74-97-5	20	1	1
10335	Bromodichloromethane	75-27-4	21	0.5	1
10335	Bromoform	75-25-2	18	0.5	1
10335	Bromomethane	74-83-9	15	0.5	1
10335	2-Butanone	78-93-3	140	3	1
10335	n-Butylbenzene	104-51-8	36	1	1
10335	sec-Butylbenzene	135-98-8	33	1	1
10335	tert-Butylbenzene	98-06-6	25	1	1
10335	Carbon Disulfide	75-15-0	21	1	1
10335	Carbon Tetrachloride	56-23-5	23	0.5	1
10335	Chlorobenzene	108-90-7	22	0.5	1
10335	Chloroethane	75-00-3	18	0.5	1
10335	Chloroform	67-66-3	23	0.5	1
10335	Chloromethane	74-87-3	19	0.5	1
10335	2-Chlorotoluene	95-49-8	23	1	1
10335	4-Chlorotoluene	106-43-4	23	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	25	2	1
10335	Dibromochloromethane	124-48-1	19	0.5	1
10335	1,2-Dibromoethane	106-93-4	21	0.5	1
10335	Dibromomethane	74-95-3	21	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	21	1	1
10335	1,3-Dichlorobenzene	541-73-1	22	1	1
10335	1,4-Dichlorobenzene	106-46-7	22	1	1
10335	Dichlorodifluoromethane	75-71-8	18	0.5	1
10335	1,1-Dichloroethane	75-34-3	22	0.5	1
10335	1,2-Dichloroethane	107-06-2	20	0.5	1
10335	1,1-Dichloroethene	75-35-4	23	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	23	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	23	0.5	1
10335	1,2-Dichloropropane	78-87-5	23	0.5	1
10335	1,3-Dichloropropane	142-28-9	21	0.5	1
10335	2,2-Dichloropropane	594-20-7	22	0.5	1
10335	1,1-Dichloropropene	563-58-6	22	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	21	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	21	0.5	1
10335	Ethylbenzene	100-41-4	59	0.5	1
10335	Hexachlorobutadiene	87-68-3	19	2	1
10335	2-Hexanone	591-78-6	100	3	1
10335	Isopropylbenzene	98-82-8	45	1	1
10335	p-Isopropyltoluene	99-87-6	31	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	96	3	1
10335	Methylene Chloride	75-09-2	21	2	1
10335	Naphthalene	91-20-3	38	1	1
10335	n-Propylbenzene	103-65-1	74	1	1
10335	Styrene	100-42-5	25	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	21	0.5	1

Sample Description: GW-022616-LB-MW-8 MS Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265595
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 11:00 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK08

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	22		0.5	1
10335	Tetrachloroethene	127-18-4	23		0.5	1
10335	Toluene	108-88-3	23		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	18		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	20		1	1
10335	1,1,1-Trichloroethane	71-55-6	20		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	25		0.5	1
10335	Trichloroethene	79-01-6	23		0.5	1
10335	Trichlorofluoromethane	75-69-4	20		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	21		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	450	E	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	180		1	1
10335	Vinyl Chloride	75-01-4	20		0.5	1
10335	m+p-Xylene	179601-23-1	120		0.5	1
10335	o-Xylene	95-47-6	72		0.5	1
10335	Xylene (Total)	1330-20-7	190		0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	19,000		500	10
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	0.095		0.0095	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	2,300		29	1
02211	HRO C24-C40 w/Si Gel	n.a.	300		67	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160711AA	03/11/2016 10:42	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160711AA	03/11/2016 10:42	Nicole S Lamoreaux	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/04/2016 19:48	Brett W Kenyon	10
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/04/2016 19:48	Brett W Kenyon	10
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 20:24	Heather M Miller	1

Sample Description: GW-022616-LB-MW-8 MS Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265595
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 11:00 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160680015A	03/09/2016 13:27	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160680015A	03/08/2016 22:10	Karen L Beyer	1

Sample Description: GW-022616-LB-MW-8 MSD Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265596
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 11:00 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK08

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	130	6	1
10335	Benzene	71-43-2	23	0.5	1
10335	Bromobenzene	108-86-1	21	1	1
10335	Bromochloromethane	74-97-5	20	1	1
10335	Bromodichloromethane	75-27-4	22	0.5	1
10335	Bromoform	75-25-2	18	0.5	1
10335	Bromomethane	74-83-9	14	0.5	1
10335	2-Butanone	78-93-3	150	3	1
10335	n-Butylbenzene	104-51-8	37	1	1
10335	sec-Butylbenzene	135-98-8	33	1	1
10335	tert-Butylbenzene	98-06-6	25	1	1
10335	Carbon Disulfide	75-15-0	22	1	1
10335	Carbon Tetrachloride	56-23-5	23	0.5	1
10335	Chlorobenzene	108-90-7	22	0.5	1
10335	Chloroethane	75-00-3	18	0.5	1
10335	Chloroform	67-66-3	23	0.5	1
10335	Chloromethane	74-87-3	18	0.5	1
10335	2-Chlorotoluene	95-49-8	23	1	1
10335	4-Chlorotoluene	106-43-4	22	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	26	2	1
10335	Dibromochloromethane	124-48-1	19	0.5	1
10335	1,2-Dibromoethane	106-93-4	21	0.5	1
10335	Dibromomethane	74-95-3	21	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	21	1	1
10335	1,3-Dichlorobenzene	541-73-1	22	1	1
10335	1,4-Dichlorobenzene	106-46-7	22	1	1
10335	Dichlorodifluoromethane	75-71-8	18	0.5	1
10335	1,1-Dichloroethane	75-34-3	22	0.5	1
10335	1,2-Dichloroethane	107-06-2	20	0.5	1
10335	1,1-Dichloroethene	75-35-4	23	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	23	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	23	0.5	1
10335	1,2-Dichloropropane	78-87-5	23	0.5	1
10335	1,3-Dichloropropane	142-28-9	21	0.5	1
10335	2,2-Dichloropropane	594-20-7	22	0.5	1
10335	1,1-Dichloropropene	563-58-6	22	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	21	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	22	0.5	1
10335	Ethylbenzene	100-41-4	59	0.5	1
10335	Hexachlorobutadiene	87-68-3	20	2	1
10335	2-Hexanone	591-78-6	100	3	1
10335	Isopropylbenzene	98-82-8	45	1	1
10335	p-Isopropyltoluene	99-87-6	31	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	100	3	1
10335	Methylene Chloride	75-09-2	21	2	1
10335	Naphthalene	91-20-3	40	1	1
10335	n-Propylbenzene	103-65-1	74	1	1
10335	Styrene	100-42-5	25	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	21	0.5	1

Sample Description: GW-022616-LB-MW-8 MSD Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265596
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 11:00 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK08

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	22		0.5	1
10335	Tetrachloroethene	127-18-4	23		0.5	1
10335	Toluene	108-88-3	23		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	18		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	20		1	1
10335	1,1,1-Trichloroethane	71-55-6	20		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	26		0.5	1
10335	Trichloroethene	79-01-6	24		0.5	1
10335	Trichlorofluoromethane	75-69-4	20		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	21		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	440	E	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	180		1	1
10335	Vinyl Chloride	75-01-4	20		0.5	1
10335	m+p-Xylene	179601-23-1	120		0.5	1
10335	o-Xylene	95-47-6	70		0.5	1
10335	Xylene (Total)	1330-20-7	190		0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	19,000		500	10
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	0.093		0.0095	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	2,200		29	1
02211	HRO C24-C40 w/Si Gel	n.a.	300		67	1

General Sample Comments

State of Washington Lab Certification No. C457

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160711AA	03/11/2016 11:05	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160711AA	03/11/2016 11:05	Nicole S Lamoreaux	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/04/2016 20:14	Brett W Kenyon	10
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/04/2016 20:14	Brett W Kenyon	10
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 20:40	Heather M Miller	1

Sample Description: GW-022616-LB-MW-8 MSD Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265596
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 11:00 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160680015A	03/09/2016 13:49	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160680015A	03/08/2016 22:10	Karen L Beyer	1

Sample Description: GW-022516-LB-MW-9 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265597
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 11:41 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK09

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	43	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1

Sample Description: GW-022516-LB-MW-9 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265597
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 11:41 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK09

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1
10335	Tetrachloroethene	127-18-4	96		0.5	1
10335	Toluene	108-88-3	N.D.		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	38		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.		1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.		1	1
10335	Vinyl Chloride	75-01-4	5		0.5	1
10335	m+p-Xylene	179601-23-1	N.D.		0.5	1
10335	o-Xylene	95-47-6	N.D.		0.5	1
10335	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	0.032	J	0.011	1
08357	Benzo(a)pyrene	50-32-8	0.022	J	0.011	1
08357	Benzo(b)fluoranthene	205-99-2	0.025	J	0.011	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	1
08357	Chrysene	218-01-9	0.072		0.011	1
08357	Dibenz(a,h)anthracene	53-70-3	0.014	J	0.011	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.012	J	0.011	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.011	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.011	1
08357	Naphthalene	91-20-3	N.D.		0.032	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0095	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.		28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		66	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	N.D.		0.13	1

Sample Description: GW-022516-LB-MW-9 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265597
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 11:41 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK09

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160672AA	03/08/2016 01:42	Caitlin M Carmody	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160672AA	03/08/2016 01:42	Caitlin M Carmody	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/04/2016 22:25	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/05/2016 01:20	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/05/2016 01:20	Brett W Kenyon	1
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 20:55	Heather M Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160680015A	03/09/2016 12:22	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160680015A	03/08/2016 22:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 22:10	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022616-LB-MW-10 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265598
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 08:00 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK10

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	1	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	1	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	6	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	14	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1

Sample Description: GW-022616-LB-MW-10 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265598
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 08:00 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK10

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	10	0.5	1
10335	m+p-Xylene	179601-23-1	2	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	2	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.68	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.32	0.010	1
08357	Naphthalene	91-20-3	0.19	0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	300	50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**	**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.	0.0096	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	110	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	N.D.	0.13	1

Sample Description: GW-022616-LB-MW-10 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265598
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 08:00 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK10

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160672AA	03/08/2016 02:05	Caitlin M Carmody	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160672AA	03/08/2016 02:05	Caitlin M Carmody	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/04/2016 22:52	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/05/2016 01:46	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/05/2016 01:46	Brett W Kenyon	1
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 21:11	Heather M Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160700007A	03/11/2016 13:31	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160700007A	03/10/2016 21:45	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 22:12	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022516-LB-MW-11 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265599
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 10:16 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK11

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10335	Acetone	67-64-1	N.D.		12	2
10335	Benzene	71-43-2	N.D.		1	2
10335	Bromobenzene	108-86-1	N.D.		2	2
10335	Bromochloromethane	74-97-5	N.D.		2	2
10335	Bromodichloromethane	75-27-4	N.D.		1	2
10335	Bromoform	75-25-2	N.D.		1	2
10335	Bromomethane	74-83-9	N.D.		1	2
10335	2-Butanone	78-93-3	N.D.		6	2
10335	n-Butylbenzene	104-51-8	N.D.		2	2
10335	sec-Butylbenzene	135-98-8	N.D.		2	2
10335	tert-Butylbenzene	98-06-6	N.D.		2	2
10335	Carbon Disulfide	75-15-0	N.D.		2	2
10335	Carbon Tetrachloride	56-23-5	N.D.		1	2
10335	Chlorobenzene	108-90-7	N.D.		1	2
10335	Chloroethane	75-00-3	N.D.		1	2
10335	Chloroform	67-66-3	N.D.		1	2
10335	Chloromethane	74-87-3	N.D.		1	2
10335	2-Chlorotoluene	95-49-8	N.D.		2	2
10335	4-Chlorotoluene	106-43-4	N.D.		2	2
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		4	2
10335	Dibromochloromethane	124-48-1	N.D.		1	2
10335	1,2-Dibromoethane	106-93-4	N.D.		1	2
10335	Dibromomethane	74-95-3	N.D.		1	2
10335	1,2-Dichlorobenzene	95-50-1	N.D.		2	2
10335	1,3-Dichlorobenzene	541-73-1	N.D.		2	2
10335	1,4-Dichlorobenzene	106-46-7	N.D.		2	2
10335	Dichlorodifluoromethane	75-71-8	N.D.		1	2
10335	1,1-Dichloroethane	75-34-3	N.D.		1	2
10335	1,2-Dichloroethane	107-06-2	N.D.		1	2
10335	1,1-Dichloroethene	75-35-4	1	J	1	2
10335	cis-1,2-Dichloroethene	156-59-2	13		1	2
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		1	2
10335	1,2-Dichloropropane	78-87-5	N.D.		1	2
10335	1,3-Dichloropropane	142-28-9	N.D.		1	2
10335	2,2-Dichloropropane	594-20-7	N.D.		1	2
10335	1,1-Dichloropropene	563-58-6	N.D.		2	2
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	2
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	2
10335	Ethylbenzene	100-41-4	N.D.		1	2
10335	Hexachlorobutadiene	87-68-3	N.D.		4	2
10335	2-Hexanone	591-78-6	N.D.		6	2
10335	Isopropylbenzene	98-82-8	N.D.		2	2
10335	p-Isopropyltoluene	99-87-6	N.D.		2	2
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		1	2
10335	4-Methyl-2-pentanone	108-10-1	N.D.		6	2
10335	Methylene Chloride	75-09-2	N.D.		4	2
10335	Naphthalene	91-20-3	N.D.		2	2
10335	n-Propylbenzene	103-65-1	N.D.		2	2
10335	Styrene	100-42-5	N.D.		2	2
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1	2

Sample Description: GW-022516-LB-MW-11 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265599
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 10:16 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK11

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	2
10335	Tetrachloroethene	127-18-4	850		10	20
10335	Toluene	108-88-3	N.D.		1	2
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		2	2
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		2	2
10335	1,1,1-Trichloroethane	71-55-6	N.D.		1	2
10335	1,1,2-Trichloroethane	79-00-5	N.D.		1	2
10335	Trichloroethene	79-01-6	30		1	2
10335	Trichlorofluoromethane	75-69-4	N.D.		1	2
10335	1,2,3-Trichloropropane	96-18-4	N.D.		2	2
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.		2	2
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.		2	2
10335	Vinyl Chloride	75-01-4	N.D.		1	2
10335	m+p-Xylene	179601-23-1	N.D.		1	2
10335	o-Xylene	95-47-6	N.D.		1	2
10335	Xylene (Total)	1330-20-7	N.D.		1	2
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	740		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.096	10
	Reporting limits were raised due to interference from the sample matrix.					
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.		29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.28	J	0.13	1

Sample Description: GW-022516-LB-MW-11 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265599
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 10:16 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK11

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160672AA	03/08/2016 07:06	Caitlin M Carmody	2
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160672AA	03/08/2016 07:29	Caitlin M Carmody	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160672AA	03/08/2016 07:06	Caitlin M Carmody	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	N160672AA	03/08/2016 07:29	Caitlin M Carmody	20
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/04/2016 23:19	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/05/2016 02:11	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/05/2016 02:11	Brett W Kenyon	1
10398	EDB by 8011	SW-846 8011	1	160680019A	03/12/2016 06:50	Heather M Miller	10
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160680015A	03/09/2016 12:44	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160680015A	03/08/2016 22:10	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 22:14	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022516-LB-MW-13 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265600
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 10:50 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK13

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	50	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1

Sample Description: GW-022516-LB-MW-13 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265600
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 10:50 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK13

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1
10335	Tetrachloroethene	127-18-4	19		0.5	1
10335	Toluene	108-88-3	N.D.		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	5		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.		1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.		1	1
10335	Vinyl Chloride	75-01-4	18		0.5	1
10335	m+p-Xylene	179601-23-1	N.D.		0.5	1
10335	o-Xylene	95-47-6	N.D.		0.5	1
10335	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0095	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.		29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.70	J	0.13	1

Sample Description: GW-022516-LB-MW-13 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265600
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 10:50 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLK13

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160672AA	03/08/2016 02:28	Caitlin M Carmody	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160672AA	03/08/2016 02:28	Caitlin M Carmody	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/04/2016 23:46	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/05/2016 03:02	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/05/2016 03:02	Brett W Kenyon	1
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 21:42	Heather M Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160700007A	03/11/2016 11:01	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160700007A	03/10/2016 21:45	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 22:15	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022616-LB-DUP Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265601
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLKFD

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acetone	67-64-1	N.D.		6	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromobenzene	108-86-1	N.D.		1	1
10335	Bromochloromethane	74-97-5	N.D.		1	1
10335	Bromodichloromethane	75-27-4	N.D.		0.5	1
10335	Bromoform	75-25-2	N.D.		0.5	1
10335	Bromomethane	74-83-9	N.D.		0.5	1
10335	2-Butanone	78-93-3	N.D.		3	1
10335	n-Butylbenzene	104-51-8	3	J	1	1
10335	sec-Butylbenzene	135-98-8	2	J	1	1
10335	tert-Butylbenzene	98-06-6	N.D.		1	1
10335	Carbon Disulfide	75-15-0	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		0.5	1
10335	Chlorobenzene	108-90-7	N.D.		0.5	1
10335	Chloroethane	75-00-3	N.D.		0.5	1
10335	Chloroform	67-66-3	N.D.		0.5	1
10335	Chloromethane	74-87-3	N.D.		0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.		1	1
10335	4-Chlorotoluene	106-43-4	N.D.		1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2	1
10335	Dibromochloromethane	124-48-1	N.D.		0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10335	Dibromomethane	74-95-3	N.D.		0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.		1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.		1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.		1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.		0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.		0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.		0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.		0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.		0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.		0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.		0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	1
10335	Ethylbenzene	100-41-4	19		0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.		2	1
10335	2-Hexanone	591-78-6	N.D.		3	1
10335	Isopropylbenzene	98-82-8	15		1	1
10335	p-Isopropyltoluene	99-87-6	N.D.		1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.		3	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	Naphthalene	91-20-3	5	J	1	1
10335	n-Propylbenzene	103-65-1	42		1	1
10335	Styrene	100-42-5	N.D.		1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.5	1

Sample Description: GW-022616-LB-DUP Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265601
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLKFD

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	1
10335	Toluene	108-88-3	N.D.		0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	1
10335	1,2,4-Trimethylbenzene	95-63-6	110		1	1
10335	1,3,5-Trimethylbenzene	108-67-8	42		1	1
10335	Vinyl Chloride	75-01-4	N.D.		0.5	1
10335	m+p-Xylene	179601-23-1	42		0.5	1
10335	o-Xylene	95-47-6	4		0.5	1
10335	Xylene (Total)	1330-20-7	45		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	3.6		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.39		0.010	1
08357	Naphthalene	91-20-3	5.1		0.031	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**		**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	1,600		50	1
Pesticides/PCBs	**SW-846 8011**		**ug/l**		**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.		0.0095	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**		**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	89	J	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.		67	1
Metals	**SW-846 6020**		**ug/l**		**ug/l**	
06035	Lead	7439-92-1	0.97	J	0.13	1

Sample Description: GW-022616-LB-DUP Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265601
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/26/2016 by LB

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLKFD

General Sample Comments

State of Washington Lab Certification No. C457
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160701AA	03/10/2016 14:37	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160701AA	03/10/2016 14:37	Nicole S Lamoreaux	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	16063WAG026	03/05/2016 00:13	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	16063WAG026	03/03/2016 16:00	Ryan A Schafran	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/05/2016 03:28	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/05/2016 03:28	Jeremy C Giffin	1
10398	EDB by 8011	SW-846 8011	1	160680019A	03/10/2016 21:57	Heather M Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	160680019A	03/09/2016 15:00	David S Schrum	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	160700007A	03/11/2016 11:22	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	160700007A	03/10/2016 21:45	Karen L Beyer	1
06035	Lead	SW-846 6020	1	160636050002A	03/06/2016 22:17	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	160636050002	03/04/2016 08:57	Christopher M Klumpp	1

Sample Description: GW-022516-LB-TB Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265602
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 07:00

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLKTB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1

Sample Description: GW-022516-LB-TB Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LL Sample # WW 8265602
LL Group # 1636215
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 02/25/2016 07:00

Submitted: 03/01/2016 16:05
Reported: 03/15/2016 11:24

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MLKTB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	N160672AA	03/08/2016 03:14	Caitlin M Carmody	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N160672AA	03/08/2016 03:14	Caitlin M Carmody	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	16063A94A	03/05/2016 03:53	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16063A94A	03/05/2016 03:53	Brett W Kenyon	1

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Group Number: 1636215
Reported: 03/15/2016 11:24

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: N160641AA	Sample number(s): 8265587	
Acetone	N.D.	6
Benzene	N.D.	0.5
Bromobenzene	N.D.	1
Bromochloromethane	N.D.	1
Bromodichloromethane	N.D.	0.5
Bromoform	N.D.	0.5
Bromomethane	N.D.	0.5
2-Butanone	N.D.	3
n-Butylbenzene	N.D.	1
sec-Butylbenzene	N.D.	1
tert-Butylbenzene	N.D.	1
Carbon Disulfide	N.D.	1
Carbon Tetrachloride	N.D.	0.5
Chlorobenzene	N.D.	0.5
Chloroethane	N.D.	0.5
Chloroform	N.D.	0.5
Chloromethane	N.D.	0.5
2-Chlorotoluene	N.D.	1
4-Chlorotoluene	N.D.	1
1,2-Dibromo-3-chloropropane	N.D.	2
Dibromochloromethane	N.D.	0.5
1,2-Dibromoethane	N.D.	0.5
Dibromomethane	N.D.	0.5
1,2-Dichlorobenzene	N.D.	1
1,3-Dichlorobenzene	N.D.	1
1,4-Dichlorobenzene	N.D.	1
Dichlorodifluoromethane	N.D.	0.5
1,1-Dichloroethane	N.D.	0.5
1,2-Dichloroethane	N.D.	0.5
1,1-Dichloroethene	N.D.	0.5
cis-1,2-Dichloroethene	N.D.	0.5
trans-1,2-Dichloroethene	N.D.	0.5
1,2-Dichloropropane	N.D.	0.5
1,3-Dichloropropane	N.D.	0.5
2,2-Dichloropropane	N.D.	0.5
1,1-Dichloropropene	N.D.	1
cis-1,3-Dichloropropene	N.D.	0.5
trans-1,3-Dichloropropene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Hexachlorobutadiene	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	1
p-Isopropyltoluene	N.D.	1

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	Result		MDL
	ug/l		ug/l
Methyl Tertiary Butyl Ether	N.D.		0.5
4-Methyl-2-pentanone	N.D.		3
Methylene Chloride	N.D.		2
Naphthalene	2	J	1
n-Propylbenzene	N.D.		1
Styrene	N.D.		1
1,1,1,2-Tetrachloroethane	N.D.		0.5
1,1,2,2-Tetrachloroethane	N.D.		0.5
Tetrachloroethene	N.D.		0.5
Toluene	N.D.		0.5
1,2,3-Trichlorobenzene	2	J	1
1,2,4-Trichlorobenzene	1	J	1
1,1,1-Trichloroethane	N.D.		0.5
1,1,2-Trichloroethane	N.D.		0.5
Trichloroethene	N.D.		0.5
Trichlorofluoromethane	N.D.		0.5
1,2,3-Trichloropropane	N.D.		1
1,2,4-Trimethylbenzene	N.D.		1
1,3,5-Trimethylbenzene	N.D.		1
Vinyl Chloride	N.D.		0.5
m+p-Xylene	N.D.		0.5
o-Xylene	N.D.		0.5
Xylene (Total)	N.D.		0.5
Batch number: N160672AA	Sample number(s): 8265592-8265593,8265597-8265600,8265602		
Acetone	N.D.		6
Benzene	N.D.		0.5
Bromobenzene	N.D.		1
Bromochloromethane	N.D.		1
Bromodichloromethane	N.D.		0.5
Bromoform	N.D.		0.5
Bromomethane	N.D.		0.5
2-Butanone	N.D.		3
n-Butylbenzene	N.D.		1
sec-Butylbenzene	N.D.		1
tert-Butylbenzene	N.D.		1
Carbon Disulfide	N.D.		1
Carbon Tetrachloride	N.D.		0.5
Chlorobenzene	N.D.		0.5
Chloroethane	N.D.		0.5
Chloroform	N.D.		0.5
Chloromethane	N.D.		0.5
2-Chlorotoluene	N.D.		1
4-Chlorotoluene	N.D.		1
1,2-Dibromo-3-chloropropane	N.D.		2
Dibromochloromethane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.5
Dibromomethane	N.D.		0.5
1,2-Dichlorobenzene	N.D.		1
1,3-Dichlorobenzene	N.D.		1
1,4-Dichlorobenzene	N.D.		1
Dichlorodifluoromethane	N.D.		0.5
1,1-Dichloroethane	N.D.		0.5
1,2-Dichloroethane	N.D.		0.5
1,1-Dichloroethene	N.D.		0.5

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	Result		MDL
	ug/l		ug/l
cis-1,2-Dichloroethene	N.D.		0.5
trans-1,2-Dichloroethene	N.D.		0.5
1,2-Dichloropropane	N.D.		0.5
1,3-Dichloropropane	N.D.		0.5
2,2-Dichloropropane	N.D.		0.5
1,1-Dichloropropene	N.D.		1
cis-1,3-Dichloropropene	N.D.		0.5
trans-1,3-Dichloropropene	N.D.		0.5
Ethylbenzene	N.D.		0.5
Hexachlorobutadiene	N.D.		2
2-Hexanone	N.D.		3
Isopropylbenzene	N.D.		1
p-Isopropyltoluene	N.D.		1
Methyl Tertiary Butyl Ether	N.D.		0.5
4-Methyl-2-pentanone	N.D.		3
Methylene Chloride	N.D.		2
Naphthalene	2	J	1
n-Propylbenzene	N.D.		1
Styrene	N.D.		1
1,1,1,2-Tetrachloroethane	N.D.		0.5
1,1,2,2-Tetrachloroethane	N.D.		0.5
Tetrachloroethene	N.D.		0.5
Toluene	N.D.		0.5
1,2,3-Trichlorobenzene	2	J	1
1,2,4-Trichlorobenzene	1	J	1
1,1,1-Trichloroethane	N.D.		0.5
1,1,2-Trichloroethane	N.D.		0.5
Trichloroethene	N.D.		0.5
Trichlorofluoromethane	N.D.		0.5
1,2,3-Trichloropropane	N.D.		1
1,2,4-Trimethylbenzene	N.D.		1
1,3,5-Trimethylbenzene	N.D.		1
Vinyl Chloride	N.D.		0.5
m+p-Xylene	N.D.		0.5
o-Xylene	N.D.		0.5
Xylene (Total)	N.D.		0.5
Batch number: N160692AA	Sample number(s): 8265588-8265590		
Acetone	N.D.		6
Benzene	N.D.		0.5
Bromobenzene	N.D.		1
Bromochloromethane	N.D.		1
Bromodichloromethane	N.D.		0.5
Bromoform	N.D.		0.5
Bromomethane	N.D.		0.5
2-Butanone	N.D.		3
n-Butylbenzene	N.D.		1
sec-Butylbenzene	N.D.		1
tert-Butylbenzene	N.D.		1
Carbon Disulfide	N.D.		1
Carbon Tetrachloride	N.D.		0.5
Chlorobenzene	N.D.		0.5
Chloroethane	N.D.		0.5
Chloroform	N.D.		0.5
Chloromethane	N.D.		0.5

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	Result	MDL
	ug/l	ug/l
2-Chlorotoluene	N.D.	1
4-Chlorotoluene	N.D.	1
1,2-Dibromo-3-chloropropane	N.D.	2
Dibromochloromethane	N.D.	0.5
1,2-Dibromoethane	N.D.	0.5
Dibromomethane	N.D.	0.5
1,2-Dichlorobenzene	N.D.	1
1,3-Dichlorobenzene	N.D.	1
1,4-Dichlorobenzene	N.D.	1
Dichlorodifluoromethane	N.D.	0.5
1,1-Dichloroethane	N.D.	0.5
1,2-Dichloroethane	N.D.	0.5
1,1-Dichloroethene	N.D.	0.5
cis-1,2-Dichloroethene	N.D.	0.5
trans-1,2-Dichloroethene	N.D.	0.5
1,2-Dichloropropane	N.D.	0.5
1,3-Dichloropropane	N.D.	0.5
2,2-Dichloropropane	N.D.	0.5
1,1-Dichloropropene	N.D.	1
cis-1,3-Dichloropropene	N.D.	0.5
trans-1,3-Dichloropropene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Hexachlorobutadiene	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	1
p-Isopropyltoluene	N.D.	1
Methyl Tertiary Butyl Ether	N.D.	0.5
4-Methyl-2-pentanone	N.D.	3
Methylene Chloride	N.D.	2
Naphthalene	N.D.	1
n-Propylbenzene	N.D.	1
Styrene	N.D.	1
1,1,1,2-Tetrachloroethane	N.D.	0.5
1,1,2,2-Tetrachloroethane	N.D.	0.5
Tetrachloroethene	N.D.	0.5
Toluene	N.D.	0.5
1,2,3-Trichlorobenzene	N.D.	1
1,2,4-Trichlorobenzene	N.D.	1
1,1,1-Trichloroethane	N.D.	0.5
1,1,2-Trichloroethane	N.D.	0.5
Trichloroethene	N.D.	0.5
Trichlorofluoromethane	N.D.	0.5
1,2,3-Trichloropropane	N.D.	1
1,2,4-Trimethylbenzene	N.D.	1
1,3,5-Trimethylbenzene	N.D.	1
Vinyl Chloride	N.D.	0.5
m+p-Xylene	N.D.	0.5
o-Xylene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: N160701AA	Sample number(s): 8265591,8265601	
Acetone	N.D.	6
Benzene	N.D.	0.5
Bromobenzene	N.D.	1
Bromochloromethane	N.D.	1

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	Result	MDL
	ug/l	ug/l
Bromodichloromethane	N.D.	0.5
Bromoform	N.D.	0.5
Bromomethane	N.D.	0.5
2-Butanone	N.D.	3
n-Butylbenzene	N.D.	1
sec-Butylbenzene	N.D.	1
tert-Butylbenzene	N.D.	1
Carbon Disulfide	N.D.	1
Carbon Tetrachloride	N.D.	0.5
Chlorobenzene	N.D.	0.5
Chloroethane	N.D.	0.5
Chloroform	N.D.	0.5
Chloromethane	N.D.	0.5
2-Chlorotoluene	N.D.	1
4-Chlorotoluene	N.D.	1
1,2-Dibromo-3-chloropropane	N.D.	2
Dibromochloromethane	N.D.	0.5
1,2-Dibromoethane	N.D.	0.5
Dibromomethane	N.D.	0.5
1,2-Dichlorobenzene	N.D.	1
1,3-Dichlorobenzene	N.D.	1
1,4-Dichlorobenzene	N.D.	1
Dichlorodifluoromethane	N.D.	0.5
1,1-Dichloroethane	N.D.	0.5
1,2-Dichloroethane	N.D.	0.5
1,1-Dichloroethene	N.D.	0.5
cis-1,2-Dichloroethene	N.D.	0.5
trans-1,2-Dichloroethene	N.D.	0.5
1,2-Dichloropropane	N.D.	0.5
1,3-Dichloropropane	N.D.	0.5
2,2-Dichloropropane	N.D.	0.5
1,1-Dichloropropene	N.D.	1
cis-1,3-Dichloropropene	N.D.	0.5
trans-1,3-Dichloropropene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Hexachlorobutadiene	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	1
p-Isopropyltoluene	N.D.	1
Methyl Tertiary Butyl Ether	N.D.	0.5
4-Methyl-2-pentanone	N.D.	3
Methylene Chloride	N.D.	2
Naphthalene	N.D.	1
n-Propylbenzene	N.D.	1
Styrene	N.D.	1
1,1,1,2-Tetrachloroethane	N.D.	0.5
1,1,2,2-Tetrachloroethane	N.D.	0.5
Tetrachloroethene	N.D.	0.5
Toluene	N.D.	0.5
1,2,3-Trichlorobenzene	N.D.	1
1,2,4-Trichlorobenzene	N.D.	1
1,1,1-Trichloroethane	N.D.	0.5
1,1,2-Trichloroethane	N.D.	0.5
Trichloroethene	N.D.	0.5

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	Result	MDL
	ug/l	ug/l
Trichlorofluoromethane	N.D.	0.5
1,2,3-Trichloropropane	N.D.	1
1,2,4-Trimethylbenzene	N.D.	1
1,3,5-Trimethylbenzene	N.D.	1
Vinyl Chloride	N.D.	0.5
m+p-Xylene	N.D.	0.5
o-Xylene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: N160711AA	Sample number(s): 8265594-8265596	
Acetone	N.D.	6
Benzene	N.D.	0.5
Bromobenzene	N.D.	1
Bromochloromethane	N.D.	1
Bromodichloromethane	N.D.	0.5
Bromoform	N.D.	0.5
Bromomethane	N.D.	0.5
2-Butanone	N.D.	3
n-Butylbenzene	N.D.	1
sec-Butylbenzene	N.D.	1
tert-Butylbenzene	N.D.	1
Carbon Disulfide	N.D.	1
Carbon Tetrachloride	N.D.	0.5
Chlorobenzene	N.D.	0.5
Chloroethane	N.D.	0.5
Chloroform	N.D.	0.5
Chloromethane	N.D.	0.5
2-Chlorotoluene	N.D.	1
4-Chlorotoluene	N.D.	1
1,2-Dibromo-3-chloropropane	N.D.	2
Dibromochloromethane	N.D.	0.5
1,2-Dibromoethane	N.D.	0.5
Dibromomethane	N.D.	0.5
1,2-Dichlorobenzene	N.D.	1
1,3-Dichlorobenzene	N.D.	1
1,4-Dichlorobenzene	N.D.	1
Dichlorodifluoromethane	N.D.	0.5
1,1-Dichloroethane	N.D.	0.5
1,2-Dichloroethane	N.D.	0.5
1,1-Dichloroethene	N.D.	0.5
cis-1,2-Dichloroethene	N.D.	0.5
trans-1,2-Dichloroethene	N.D.	0.5
1,2-Dichloropropane	N.D.	0.5
1,3-Dichloropropane	N.D.	0.5
2,2-Dichloropropane	N.D.	0.5
1,1-Dichloropropene	N.D.	1
cis-1,3-Dichloropropene	N.D.	0.5
trans-1,3-Dichloropropene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Hexachlorobutadiene	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	1
p-Isopropyltoluene	N.D.	1
Methyl Tertiary Butyl Ether	N.D.	0.5
4-Methyl-2-pentanone	N.D.	3

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	Result	MDL
	ug/l	ug/l
Methylene Chloride	N.D.	2
Naphthalene	N.D.	1
n-Propylbenzene	N.D.	1
Styrene	N.D.	1
1,1,1,2-Tetrachloroethane	N.D.	0.5
1,1,2,2-Tetrachloroethane	N.D.	0.5
Tetrachloroethene	N.D.	0.5
Toluene	N.D.	0.5
1,2,3-Trichlorobenzene	N.D.	1
1,2,4-Trichlorobenzene	N.D.	1
1,1,1-Trichloroethane	N.D.	0.5
1,1,2-Trichloroethane	N.D.	0.5
Trichloroethene	N.D.	0.5
Trichlorofluoromethane	N.D.	0.5
1,2,3-Trichloropropane	N.D.	1
1,2,4-Trimethylbenzene	N.D.	1
1,3,5-Trimethylbenzene	N.D.	1
Vinyl Chloride	N.D.	0.5
m+p-Xylene	N.D.	0.5
o-Xylene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: 16063WAG026	Sample number(s): 8265587-8265594,8265597-8265601	
Benzo(a)anthracene	N.D.	0.010
Benzo(a)pyrene	N.D.	0.010
Benzo(b)fluoranthene	N.D.	0.010
Benzo(k)fluoranthene	N.D.	0.010
Chrysene	N.D.	0.010
Dibenz(a,h)anthracene	N.D.	0.010
Indeno(1,2,3-cd)pyrene	N.D.	0.010
1-Methylnaphthalene	N.D.	0.010
2-Methylnaphthalene	N.D.	0.010
Naphthalene	N.D.	0.030
Batch number: 16063A94A	Sample number(s): 8265587-8265602	
NWTPH-Gx water C7-C12	N.D.	50
Batch number: 160680019A	Sample number(s): 8265587-8265601	
Ethylene dibromide	N.D.	0.010
Batch number: 160680015A	Sample number(s): 8265587-8265597,8265599	
DRO C12-C24 w/Si Gel	N.D.	30
HRO C24-C40 w/Si Gel	N.D.	70
Batch number: 160700007A	Sample number(s): 8265598,8265600-8265601	
DRO C12-C24 w/Si Gel	N.D.	30
HRO C24-C40 w/Si Gel	N.D.	70
Batch number: 160636050002A	Sample number(s): 8265587-8265594,8265597-8265601	
Lead	N.D.	0.13

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: N160641AA	Sample number(s): 8265587								
Acetone	150	178.38	150	183.88	119	123	58-138	3	30
Benzene	20	21.09	20	21.52	105	108	78-120	2	30
Bromobenzene	20	20.9	20	21.08	105	105	80-120	1	30
Bromochloromethane	20	20.3	20	20.84	101	104	80-125	3	30
Bromodichloromethane	20	20.25	20	20.47	101	102	80-120	1	30
Bromoform	20	18.09	20	18.51	90	93	67-120	2	30
Bromomethane	20	14.08	20	14.3	70	72	53-130	2	30
2-Butanone	150	164.34	150	167.39	110	112	62-131	2	30
n-Butylbenzene	20	21.32	20	21.59	107	108	68-120	1	30
sec-Butylbenzene	20	22.07	20	22.57	110	113	68-124	2	30
tert-Butylbenzene	20	22.02	20	22.16	110	111	74-121	1	30
Carbon Disulfide	20	20.31	20	20.64	102	103	58-120	2	30
Carbon Tetrachloride	20	21.62	20	21.95	108	110	74-130	2	30
Chlorobenzene	20	21.13	20	21.39	106	107	80-120	1	30
Chloroethane	20	16.4	20	16.68	82	83	56-120	2	30
Chloroform	20	21.1	20	21.33	105	107	80-120	1	30
Chloromethane	20	18.25	20	18.36	91	92	65-129	1	30
2-Chlorotoluene	20	21.24	20	21.52	106	108	80-120	1	30
4-Chlorotoluene	20	21.14	20	21.56	106	108	78-120	2	30
1,2-Dibromo-3-chloropropane	20	17.42	20	17.96	87	90	59-120	3	30
Dibromochloromethane	20	19.33	20	19.41	97	97	78-120	0	30
1,2-Dibromoethane	20	20.87	20	21.19	104	106	80-120	1	30
Dibromomethane	20	20.55	20	21.03	103	105	80-120	2	30
1,2-Dichlorobenzene	20	20.65	20	21.05	103	105	80-120	2	30
1,3-Dichlorobenzene	20	20.69	20	21.3	103	106	80-120	3	30
1,4-Dichlorobenzene	20	20.94	20	21.4	105	107	80-120	2	30
Dichlorodifluoromethane	20	15.65	20	15.58	78	78	49-127	0	30
1,1-Dichloroethane	20	20.79	20	21.07	104	105	80-120	1	30
1,2-Dichloroethane	20	20.19	20	20.63	101	103	72-127	2	30
1,1-Dichloroethene	20	21.41	20	22.03	107	110	76-124	3	30
cis-1,2-Dichloroethene	20	21.06	20	21.73	105	109	80-120	3	30
trans-1,2-Dichloroethene	20	21.77	20	22.3	109	112	80-120	2	30
1,2-Dichloropropane	20	21.22	20	21.71	106	109	80-120	2	30
1,3-Dichloropropane	20	20.32	20	20.53	102	103	80-120	1	30
2,2-Dichloropropane	20	21.04	20	21.34	105	107	48-159	1	30
1,1-Dichloropropene	20	20.42	20	20.57	102	103	80-126	1	30
cis-1,3-Dichloropropene	20	20.69	20	21.13	103	106	80-120	2	30
trans-1,3-Dichloropropene	20	21.15	20	21.52	106	108	76-120	2	30
Ethylbenzene	20	21.56	20	21.97	108	110	78-120	2	30
Hexachlorobutadiene	20	18.26	20	18.77	91	94	61-127	3	30
2-Hexanone	100	104.07	100	105.46	104	105	35-138	1	30
Isopropylbenzene	20	22.24	20	22.54	111	113	80-120	1	30
p-Isopropyltoluene	20	21.88	20	22.23	109	111	76-120	2	30
Methyl Tertiary Butyl Ether	20	20.28	20	20.97	101	105	75-120	3	30
4-Methyl-2-pentanone	100	98.8	100	99.51	99	100	47-133	1	30
Methylene Chloride	20	20.67	20	21.36	103	107	77-121	3	30
Naphthalene	20	17.4	20	18.23	87	91	59-120	5	30
n-Propylbenzene	20	21.9	20	22.33	110	112	75-130	2	30
Styrene	20	22.02	20	22.38	110	112	80-120	2	30
1,1,1,2-Tetrachloroethane	20	20.51	20	21.04	103	105	80-120	3	30
1,1,2,2-Tetrachloroethane	20	20.03	20	20.39	100	102	72-120	2	30
Tetrachloroethene	20	21.25	20	21.74	106	109	80-129	2	30

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Toluene	20	21.35	20	21.61	107	108	80-120	1	30
1,2,3-Trichlorobenzene	20	16.96	20	17.62	85	88	69-120	4	30
1,2,4-Trichlorobenzene	20	18.56	20	19.28	93	96	66-120	4	30
1,1,1-Trichloroethane	20	18.99	20	19.25	95	96	66-126	1	30
1,1,2-Trichloroethane	20	20.32	20	20.69	102	103	80-120	2	30
Trichloroethene	20	21.4	20	21.76	107	109	80-120	2	30
Trichlorofluoromethane	20	18.79	20	18.87	94	94	67-129	0	30
1,2,3-Trichloropropane	20	20.74	20	21.02	104	105	76-120	1	30
1,2,4-Trimethylbenzene	20	21.57	20	22.12	108	111	75-120	3	30
1,3,5-Trimethylbenzene	20	21.85	20	22.16	109	111	75-120	1	30
Vinyl Chloride	20	18.49	20	18.99	92	95	69-120	3	30
m+p-Xylene	40	43.81	40	44.51	110	111	80-120	2	30
o-Xylene	20	21.48	20	21.63	107	108	80-120	1	30
Xylene (Total)	60	65.29	60	66.14	109	110	80-120	1	30
Batch number: N160672AA	Sample number(s): 8265592-8265593,8265597-8265600,8265602								
Acetone	150	208.62			139*		58-138		
Benzene	20	23.01			115		78-120		
Bromobenzene	20	20.63			103		80-120		
Bromochloromethane	20	21.93			110		80-125		
Bromodichloromethane	20	21.22			106		80-120		
Bromoform	20	17.46			87		67-120		
Bromomethane	20	12.77			64		53-130		
2-Butanone	150	183.74			122		62-131		
n-Butylbenzene	20	21.03			105		68-120		
sec-Butylbenzene	20	21.43			107		68-124		
tert-Butylbenzene	20	20.65			103		74-121		
Carbon Disulfide	20	21.8			109		58-120		
Carbon Tetrachloride	20	22.48			112		74-130		
Chlorobenzene	20	21.58			108		80-120		
Chloroethane	20	14.86			74		56-120		
Chloroform	20	22.67			113		80-120		
Chloromethane	20	16.71			84		65-129		
2-Chlorotoluene	20	20.75			104		80-120		
4-Chlorotoluene	20	20.9			104		78-120		
1,2-Dibromo-3-chloropropane	20	16.87			84		59-120		
Dibromochloromethane	20	18.91			95		78-120		
1,2-Dibromoethane	20	20.99			105		80-120		
Dibromomethane	20	22.05			110		80-120		
1,2-Dichlorobenzene	20	20.44			102		80-120		
1,3-Dichlorobenzene	20	20.61			103		80-120		
1,4-Dichlorobenzene	20	20.9			105		80-120		
Dichlorodifluoromethane	20	15.59			78		49-127		
1,1-Dichloroethane	20	22.46			112		80-120		
1,2-Dichloroethane	20	21.59			108		72-127		
1,1-Dichloroethene	20	22.65			113		76-124		
cis-1,2-Dichloroethene	20	22.85			114		80-120		
trans-1,2-Dichloroethene	20	23.28			116		80-120		
1,2-Dichloropropane	20	23.32			117		80-120		
1,3-Dichloropropane	20	20.82			104		80-120		
2,2-Dichloropropane	20	21.22			106		48-159		
1,1-Dichloropropene	20	21.25			106		80-126		
cis-1,3-Dichloropropene	20	21.01			105		80-120		
trans-1,3-Dichloropropene	20	20.27			101		76-120		

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethylbenzene	20	21.71			109		78-120		
Hexachlorobutadiene	20	17.77			89		61-127		
2-Hexanone	100	105.4			105		35-138		
Isopropylbenzene	20	21.62			108		80-120		
p-Isopropyltoluene	20	21.19			106		76-120		
Methyl Tertiary Butyl Ether	20	20.89			104		75-120		
4-Methyl-2-pentanone	100	104.28			104		47-133		
Methylene Chloride	20	22.83			114		77-121		
Naphthalene	20	16.47			82		59-120		
n-Propylbenzene	20	21.84			109		75-130		
Styrene	20	22			110		80-120		
1,1,1,2-Tetrachloroethane	20	20.74			104		80-120		
1,1,2,2-Tetrachloroethane	20	20.33			102		72-120		
Tetrachloroethene	20	21.49			107		80-129		
Toluene	20	21.57			108		80-120		
1,2,3-Trichlorobenzene	20	16.5			82		69-120		
1,2,4-Trichlorobenzene	20	17.72			89		66-120		
1,1,1-Trichloroethane	20	19.67			98		66-126		
1,1,2-Trichloroethane	20	20.94			105		80-120		
Trichloroethene	20	22.83			114		80-120		
Trichlorofluoromethane	20	18.86			94		67-129		
1,2,3-Trichloropropane	20	20.65			103		76-120		
1,2,4-Trimethylbenzene	20	21.28			106		75-120		
1,3,5-Trimethylbenzene	20	21.07			105		75-120		
Vinyl Chloride	20	17.81			89		69-120		
m+p-Xylene	40	43.8			109		80-120		
o-Xylene	20	20.88			104		80-120		
Xylene (Total)	60	64.68			108		80-120		
Batch number: N160692AA	Sample number(s): 8265588-8265590								
Acetone	150	154.09	150	156.96	103	105	58-138	2	30
Benzene	20	20.87	20	21.22	104	106	78-120	2	30
Bromobenzene	20	19.93	20	20.41	100	102	80-120	2	30
Bromochloromethane	20	19.02	20	19.46	95	97	80-125	2	30
Bromodichloromethane	20	19.61	20	19.97	98	100	80-120	2	30
Bromoform	20	17.83	20	17.83	89	89	67-120	0	30
Bromomethane	20	13.5	20	11.69	67	58	53-130	14	30
2-Butanone	150	144.97	150	149.11	97	99	62-131	3	30
n-Butylbenzene	20	21.82	20	22.28	109	111	68-120	2	30
sec-Butylbenzene	20	21.83	20	22.4	109	112	68-124	3	30
tert-Butylbenzene	20	21.22	20	21.55	106	108	74-121	2	30
Carbon Disulfide	20	18.68	20	19.14	93	96	58-120	2	30
Carbon Tetrachloride	20	20.25	20	20.8	101	104	74-130	3	30
Chlorobenzene	20	21.06	20	21.34	105	107	80-120	1	30
Chloroethane	20	16.73	20	15.91	84	80	56-120	5	30
Chloroform	20	20.49	20	20.69	102	103	80-120	1	30
Chloromethane	20	15.05	20	14.35	75	72	65-129	5	30
2-Chlorotoluene	20	20.76	20	21.24	104	106	80-120	2	30
4-Chlorotoluene	20	20.95	20	21.41	105	107	78-120	2	30
1,2-Dibromo-3-chloropropane	20	18.15	20	18.27	91	91	59-120	1	30
Dibromochloromethane	20	19.15	20	19.32	96	97	78-120	1	30
1,2-Dibromoethane	20	20.42	20	20.86	102	104	80-120	2	30
Dibromomethane	20	19.79	20	20.59	99	103	80-120	4	30
1,2-Dichlorobenzene	20	20.44	20	20.87	102	104	80-120	2	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3-Dichlorobenzene	20	20.62	20	20.93	103	105	80-120	2	30
1,4-Dichlorobenzene	20	20.75	20	21.17	104	106	80-120	2	30
Dichlorodifluoromethane	20	12.96	20	12.69	65	63	49-127	2	30
1,1-Dichloroethane	20	20.27	20	20.59	101	103	80-120	2	30
1,2-Dichloroethane	20	19.17	20	19.42	96	97	72-127	1	30
1,1-Dichloroethene	20	20.08	20	20.14	100	101	76-124	0	30
cis-1,2-Dichloroethene	20	20.51	20	20.96	103	105	80-120	2	30
trans-1,2-Dichloroethene	20	20.71	20	21.34	104	107	80-120	3	30
1,2-Dichloropropane	20	21.1	20	21.4	106	107	80-120	1	30
1,3-Dichloropropane	20	20.33	20	20.69	102	103	80-120	2	30
2,2-Dichloropropane	20	19.4	20	19.65	97	98	48-159	1	30
1,1-Dichloropropene	20	19.44	20	19.87	97	99	80-126	2	30
cis-1,3-Dichloropropene	20	19.93	20	20.16	100	101	80-120	1	30
trans-1,3-Dichloropropene	20	20.5	20	20.79	102	104	76-120	1	30
Ethylbenzene	20	21.24	20	21.58	106	108	78-120	2	30
Hexachlorobutadiene	20	17.44	20	17.57	87	88	61-127	1	30
2-Hexanone	100	97.37	100	99.99	97	100	35-138	3	30
Isopropylbenzene	20	21.12	20	21.68	106	108	80-120	3	30
p-Isopropyltoluene	20	21.51	20	21.95	108	110	76-120	2	30
Methyl Tertiary Butyl Ether	20	18.94	20	19.46	95	97	75-120	3	30
4-Methyl-2-pentanone	100	93.11	100	96.15	93	96	47-133	3	30
Methylene Chloride	20	19.75	20	20.21	99	101	77-121	2	30
Naphthalene	20	18.32	20	17.78	92	89	59-120	3	30
n-Propylbenzene	20	22.03	20	22.39	110	112	75-130	2	30
Styrene	20	21.37	20	21.52	107	108	80-120	1	30
1,1,1,2-Tetrachloroethane	20	20.11	20	20.5	101	102	80-120	2	30
1,1,2,2-Tetrachloroethane	20	20.75	20	21.12	104	106	72-120	2	30
Tetrachloroethene	20	20.43	20	20.93	102	105	80-129	2	30
Toluene	20	21.07	20	21.46	105	107	80-120	2	30
1,2,3-Trichlorobenzene	20	17.53	20	17.19	88	86	69-120	2	30
1,2,4-Trichlorobenzene	20	18.46	20	18.33	92	92	66-120	1	30
1,1,1-Trichloroethane	20	18.94	20	19.11	95	96	66-126	1	30
1,1,2-Trichloroethane	20	20.71	20	20.58	104	103	80-120	1	30
Trichloroethene	20	20.62	20	20.92	103	105	80-120	1	30
Trichlorofluoromethane	20	17.41	20	16.74	87	84	67-129	4	30
1,2,3-Trichloropropane	20	20.4	20	21.09	102	105	76-120	3	30
1,2,4-Trimethylbenzene	20	21.57	20	21.93	108	110	75-120	2	30
1,3,5-Trimethylbenzene	20	21.58	20	21.88	108	109	75-120	1	30
Vinyl Chloride	20	15.9	20	15.73	80	79	69-120	1	30
m+p-Xylene	40	42.89	40	43.34	107	108	80-120	1	30
o-Xylene	20	20.5	20	20.62	103	103	80-120	1	30
Xylene (Total)	60	63.4	60	63.95	106	107	80-120	1	30
Batch number: N160701AA	Sample number(s): 8265591,8265601								
Acetone	150	164.8	150	154.85	110	103	58-138	6	30
Benzene	20	20.96	20	20.91	105	105	78-120	0	30
Bromobenzene	20	20.48	20	20.06	102	100	80-120	2	30
Bromochloromethane	20	19.86	20	19.75	99	99	80-125	1	30
Bromodichloromethane	20	20.22	20	20.07	101	100	80-120	1	30
Bromoform	20	17.98	20	17.75	90	89	67-120	1	30
Bromomethane	20	14.19	20	14.1	71	71	53-130	1	30
2-Butanone	150	149.76	150	146.9	100	98	62-131	2	30
n-Butylbenzene	20	22.18	20	21.93	111	110	68-120	1	30
sec-Butylbenzene	20	22.57	20	22.26	113	111	68-124	1	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 03/15/2016 11:24

Group Number: 1636215

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
tert-Butylbenzene	20	21.37	20	21.31	107	107	74-121	0	30
Carbon Disulfide	20	19.74	20	19.42	99	97	58-120	2	30
Carbon Tetrachloride	20	20.84	20	20.74	104	104	74-130	0	30
Chlorobenzene	20	21	20	20.78	105	104	80-120	1	30
Chloroethane	20	16.47	20	16.93	82	85	56-120	3	30
Chloroform	20	20.77	20	20.54	104	103	80-120	1	30
Chloromethane	20	17.97	20	18.09	90	90	65-129	1	30
2-Chlorotoluene	20	21.37	20	21.31	107	107	80-120	0	30
4-Chlorotoluene	20	21.35	20	21.24	107	106	78-120	1	30
1,2-Dibromo-3-chloropropane	20	18.64	20	17.77	93	89	59-120	5	30
Dibromochloromethane	20	19.44	20	19.14	97	96	78-120	2	30
1,2-Dibromoethane	20	20.74	20	20.61	104	103	80-120	1	30
Dibromomethane	20	20.34	20	20.4	102	102	80-120	0	30
1,2-Dichlorobenzene	20	20.62	20	20.4	103	102	80-120	1	30
1,3-Dichlorobenzene	20	20.79	20	20.65	104	103	80-120	1	30
1,4-Dichlorobenzene	20	21	20	20.76	105	104	80-120	1	30
Dichlorodifluoromethane	20	17.83	20	17.69	89	88	49-127	1	30
1,1-Dichloroethane	20	20.52	20	20.32	103	102	80-120	1	30
1,2-Dichloroethane	20	19.36	20	19.3	97	96	72-127	0	30
1,1-Dichloroethene	20	20.57	20	20.4	103	102	76-124	1	30
cis-1,2-Dichloroethene	20	21.03	20	20.87	105	104	80-120	1	30
trans-1,2-Dichloroethene	20	21.5	20	21.06	107	105	80-120	2	30
1,2-Dichloropropane	20	21.28	20	21.14	106	106	80-120	1	30
1,3-Dichloropropane	20	20.48	20	20.3	102	101	80-120	1	30
2,2-Dichloropropane	20	20.25	20	20.14	101	101	48-159	1	30
1,1-Dichloropropene	20	20.3	20	19.86	101	99	80-126	2	30
cis-1,3-Dichloropropene	20	20.73	20	20.55	104	103	80-120	1	30
trans-1,3-Dichloropropene	20	21.05	20	20.69	105	103	76-120	2	30
Ethylbenzene	20	21.49	20	21.38	107	107	78-120	1	30
Hexachlorobutadiene	20	17.99	20	17.79	90	89	61-127	1	30
2-Hexanone	100	97.85	100	97.02	98	97	35-138	1	30
Isopropylbenzene	20	21.67	20	21.59	108	108	80-120	0	30
p-Isopropyltoluene	20	22.01	20	21.77	110	109	76-120	1	30
Methyl Tertiary Butyl Ether	20	19.57	20	19.58	98	98	75-120	0	30
4-Methyl-2-pentanone	100	93.95	100	93.58	94	94	47-133	0	30
Methylene Chloride	20	19.95	20	20.09	100	100	77-121	1	30
Naphthalene	20	18.92	20	17.82	95	89	59-120	6	30
n-Propylbenzene	20	22.33	20	22.27	112	111	75-130	0	30
Styrene	20	21.6	20	21.47	108	107	80-120	1	30
1,1,1,2-Tetrachloroethane	20	20.18	20	20.27	101	101	80-120	0	30
1,1,2,2-Tetrachloroethane	20	21.19	20	21.05	106	105	72-120	1	30
Tetrachloroethene	20	20.49	20	20.28	102	101	80-129	1	30
Toluene	20	21.36	20	21.28	107	106	80-120	0	30
1,2,3-Trichlorobenzene	20	18.09	20	17.29	90	86	69-120	4	30
1,2,4-Trichlorobenzene	20	19.04	20	18.43	95	92	66-120	3	30
1,1,1-Trichloroethane	20	18.91	20	18.86	95	94	66-126	0	30
1,1,2-Trichloroethane	20	20.65	20	20.43	103	102	80-120	1	30
Trichloroethene	20	21.1	20	20.95	105	105	80-120	1	30
Trichlorofluoromethane	20	18.22	20	18.17	91	91	67-129	0	30
1,2,3-Trichloropropane	20	20.57	20	20.82	103	104	76-120	1	30
1,2,4-Trimethylbenzene	20	21.8	20	21.67	109	108	75-120	1	30
1,3,5-Trimethylbenzene	20	21.98	20	21.86	110	109	75-120	1	30
Vinyl Chloride	20	18.83	20	18.69	94	93	69-120	1	30

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(1) The result for one or both determinations was less than five times the LOQ.
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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
m+p-Xylene	40	43.57	40	42.94	109	107	80-120	1	30
o-Xylene	20	20.79	20	20.6	104	103	80-120	1	30
Xylene (Total)	60	64.36	60	63.53	107	106	80-120	1	30
Batch number: N160711AA	Sample number(s): 8265594-8265596								
Acetone	150	157.18	150	156.32	105	104	58-138	1	30
Benzene	20	21.22	20	21.19	106	106	78-120	0	30
Bromobenzene	20	20.49	20	20.56	102	103	80-120	0	30
Bromochloromethane	20	19.91	20	19.79	100	99	80-125	1	30
Bromodichloromethane	20	19.81	20	20.1	99	101	80-120	1	30
Bromoform	20	17.64	20	17.56	88	88	67-120	0	30
Bromomethane	20	13.93	20	13.83	70	69	53-130	1	30
2-Butanone	150	148.47	150	148.08	99	99	62-131	0	30
n-Butylbenzene	20	22.26	20	22.27	111	111	68-120	0	30
sec-Butylbenzene	20	22.57	20	22.54	113	113	68-124	0	30
tert-Butylbenzene	20	21.51	20	21.86	108	109	74-121	2	30
Carbon Disulfide	20	19.5	20	19.51	98	98	58-120	0	30
Carbon Tetrachloride	20	20.64	20	20.75	103	104	74-130	1	30
Chlorobenzene	20	21.18	20	21.09	106	105	80-120	0	30
Chloroethane	20	16.54	20	16.45	83	82	56-120	1	30
Chloroform	20	20.83	20	20.79	104	104	80-120	0	30
Chloromethane	20	17.76	20	17.69	89	88	65-129	0	30
2-Chlorotoluene	20	21.33	20	21.27	107	106	80-120	0	30
4-Chlorotoluene	20	21.52	20	21.57	108	108	78-120	0	30
1,2-Dibromo-3-chloropropane	20	18.25	20	18.14	91	91	59-120	1	30
Dibromochloromethane	20	18.94	20	19.01	95	95	78-120	0	30
1,2-Dibromoethane	20	20.54	20	20.77	103	104	80-120	1	30
Dibromomethane	20	20.42	20	20.65	102	103	80-120	1	30
1,2-Dichlorobenzene	20	20.71	20	20.74	104	104	80-120	0	30
1,3-Dichlorobenzene	20	20.93	20	21	105	105	80-120	0	30
1,4-Dichlorobenzene	20	21.05	20	21.18	105	106	80-120	1	30
Dichlorodifluoromethane	20	17.59	20	17.27	88	86	49-127	2	30
1,1-Dichloroethane	20	20.5	20	20.49	103	102	80-120	0	30
1,2-Dichloroethane	20	19.44	20	19.45	97	97	72-127	0	30
1,1-Dichloroethene	20	20.64	20	20.73	103	104	76-124	0	30
cis-1,2-Dichloroethene	20	21.07	20	20.96	105	105	80-120	0	30
trans-1,2-Dichloroethene	20	21.41	20	21.43	107	107	80-120	0	30
1,2-Dichloropropane	20	21.55	20	21.36	108	107	80-120	1	30
1,3-Dichloropropane	20	20.51	20	20.4	103	102	80-120	1	30
2,2-Dichloropropane	20	19.87	20	19.93	99	100	48-159	0	30
1,1-Dichloropropene	20	20.19	20	19.92	101	100	80-126	1	30
cis-1,3-Dichloropropene	20	20.02	20	20.12	100	101	80-120	0	30
trans-1,3-Dichloropropene	20	20.28	20	20.12	101	101	76-120	1	30
Ethylbenzene	20	21.47	20	21.46	107	107	78-120	0	30
Hexachlorobutadiene	20	18.52	20	18.57	93	93	61-127	0	30
2-Hexanone	100	98.26	100	97.95	98	98	35-138	0	30
Isopropylbenzene	20	21.65	20	21.5	108	107	80-120	1	30
p-Isopropyltoluene	20	21.95	20	21.94	110	110	76-120	0	30
Methyl Tertiary Butyl Ether	20	19.45	20	19.67	97	98	75-120	1	30
4-Methyl-2-pentanone	100	95.2	100	95.93	95	96	47-133	1	30
Methylene Chloride	20	20.06	20	20.31	100	102	77-121	1	30
Naphthalene	20	18.53	20	17.93	93	90	59-120	3	30
n-Propylbenzene	20	22.48	20	22.48	112	112	75-130	0	30
Styrene	20	21.75	20	21.8	109	109	80-120	0	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 03/15/2016 11:24

Group Number: 1636215

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
1,1,1,2-Tetrachloroethane	20	20.07	20	20.23	100	101	80-120	1	30
1,1,2,2-Tetrachloroethane	20	21.43	20	21.54	107	108	72-120	0	30
Tetrachloroethene	20	20.67	20	20.44	103	102	80-129	1	30
Toluene	20	21.28	20	21.22	106	106	80-120	0	30
1,2,3-Trichlorobenzene	20	18.14	20	17.73	91	89	69-120	2	30
1,2,4-Trichlorobenzene	20	18.63	20	18.48	93	92	66-120	1	30
1,1,1-Trichloroethane	20	18.6	20	18.57	93	93	66-126	0	30
1,1,2-Trichloroethane	20	20.69	20	20.55	103	103	80-120	1	30
Trichloroethene	20	21.16	20	20.94	106	105	80-120	1	30
Trichlorofluoromethane	20	18.41	20	18.48	92	92	67-129	0	30
1,2,3-Trichloropropane	20	20.83	20	21.21	104	106	76-120	2	30
1,2,4-Trimethylbenzene	20	21.62	20	22.01	108	110	75-120	2	30
1,3,5-Trimethylbenzene	20	21.96	20	21.98	110	110	75-120	0	30
Vinyl Chloride	20	18.78	20	18.7	94	93	69-120	0	30
m+p-Xylene	40	43.62	40	43.41	109	109	80-120	0	30
o-Xylene	20	20.68	20	20.71	103	104	80-120	0	30
Xylene (Total)	60	64.3	60	64.12	107	107	80-120	0	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 16063WAG026	Sample number(s): 8265587-8265594,8265597-8265601								
Benzo(a)anthracene	1.00	0.971	1.00	0.943	97	94	71-118	3	30
Benzo(a)pyrene	1.00	1.01	1.00	0.948	101	95	70-120	6	30
Benzo(b)fluoranthene	1.00	1.10	1.00	1.06	110	106	76-132	4	30
Benzo(k)fluoranthene	1.00	1.05	1.00	0.941	105	94	69-126	11	30
Chrysene	1.00	0.952	1.00	0.915	95	91	66-119	4	30
Dibenz(a,h)anthracene	1.00	1.04	1.00	0.797	104	80	47-136	27	30
Indeno(1,2,3-cd)pyrene	1.00	1.02	1.00	0.857	102	86	52-134	18	30
1-Methylnaphthalene	1.00	0.944	1.00	0.963	94	96	68-112	2	30
2-Methylnaphthalene	1.00	0.904	1.00	0.910	90	91	59-124	1	30
Naphthalene	1.00	1.00	1.00	0.976	100	98	61-112	3	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 16063A94A	Sample number(s): 8265587-8265602								
NWTPH-Gx water C7-C12	1100	974.59			89		79-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 160680019A	Sample number(s): 8265587-8265601								
Ethylene dibromide	0.128	0.111	0.128	0.106	87	83	60-140	4	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 160680015A	Sample number(s): 8265587-8265597,8265599								
DRO C12-C24 w/Si Gel	1600	1150.26			72		32-117		
Batch number: 160700007A	Sample number(s): 8265598,8265600-8265601								
DRO C12-C24 w/Si Gel	1600	1160.88	1600	1120.54	73	70	32-117	4	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 160636050002A	Sample number(s): 8265587-8265594,8265597-8265601								
Lead	15	15.11			101		80-120		

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 03/15/2016 11:24

Group Number: 1636215

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: N160641AA	Sample number(s): 8265587 UNSPK: P258186									
Acetone	351.61	3000	2877.75	3000	2751.55	84	80	58-138	4	30
Benzene	144.89	400	573.16	400	542.91	107	100	78-120	5	30
Bromobenzene	N.D.	400	419.91	400	397.2	105	99	80-120	6	30
Bromochloromethane	N.D.	400	417.09	400	386.5	104	97	80-125	8	30
Bromodichloromethane	N.D.	400	410.38	400	381.98	103	95	80-120	7	30
Bromoform	N.D.	400	356.44	400	333.99	89	83	67-120	7	30
Bromomethane	N.D.	400	267.59	400	266.84	67	67	53-130	0	30
2-Butanone	118.9	3000	2912.82	3000	2746.39	93	88	62-131	6	30
n-Butylbenzene	N.D.	400	442.29	400	425.71	111	106	68-120	4	30
sec-Butylbenzene	N.D.	400	461.69	400	440.44	115	110	68-124	5	30
tert-Butylbenzene	N.D.	400	452.3	400	432.02	113	108	74-121	5	30
Carbon Disulfide	N.D.	400	436.67	400	409.39	109	102	58-120	6	30
Carbon Tetrachloride	N.D.	400	464.13	400	432.89	116	108	74-130	7	30
Chlorobenzene	N.D.	400	429.69	400	402.41	107	101	80-120	7	30
Chloroethane	N.D.	400	314.32	400	323.45	79	81	56-120	3	30
Chloroform	N.D.	400	437.94	400	403.66	109	101	80-120	8	30
Chloromethane	N.D.	400	359.6	400	365.29	90	91	65-129	2	30
2-Chlorotoluene	N.D.	400	433.6	400	411.47	108	103	80-120	5	30
4-Chlorotoluene	N.D.	400	428.92	400	408.13	107	102	78-120	5	30
1,2-Dibromo-3-chloropropane	N.D.	400	341.13	400	318.16	85	80	59-120	7	30
Dibromochloromethane	N.D.	400	383.35	400	359.79	96	90	78-120	6	30
1,2-Dibromoethane	N.D.	400	414.25	400	388.15	104	97	80-120	7	30
Dibromomethane	N.D.	400	412.41	400	386.92	103	97	80-120	6	30
1,2-Dichlorobenzene	N.D.	400	412.71	400	391.56	103	98	80-120	5	30
1,3-Dichlorobenzene	N.D.	400	421.27	400	398.45	105	100	80-120	6	30
1,4-Dichlorobenzene	N.D.	400	423.9	400	402.43	106	101	80-120	5	30
Dichlorodifluoromethane	N.D.	400	330.28	400	326.57	83	82	49-127	1	30
1,1-Dichloroethane	N.D.	400	434.32	400	404.8	109	101	80-120	7	30
1,2-Dichloroethane	N.D.	400	406.38	400	380.06	102	95	72-127	7	30
1,1-Dichloroethene	N.D.	400	465.87	400	432.8	116	108	76-124	7	30
cis-1,2-Dichloroethene	N.D.	400	441.14	400	413.96	110	103	80-120	6	30
trans-1,2-Dichloroethene	N.D.	400	461.49	400	430.38	115	108	80-120	7	30
1,2-Dichloropropane	N.D.	400	435.77	400	406.18	109	102	80-120	7	30
1,3-Dichloropropane	N.D.	400	406.42	400	381.15	102	95	80-120	6	30
2,2-Dichloropropane	N.D.	400	444.75	400	417.1	111	104	48-159	6	30
1,1-Dichloropropene	N.D.	400	437.57	400	407.62	109	102	80-126	7	30
cis-1,3-Dichloropropene	N.D.	400	419.71	400	395.64	105	99	80-120	6	30
trans-1,3-Dichloropropene	N.D.	400	428.17	400	398.94	107	100	76-120	7	30
Ethylbenzene	N.D.	400	453.77	400	422.48	113	106	78-120	7	30
Hexachlorobutadiene	N.D.	400	386.08	400	365.07	97	91	61-127	6	30
2-Hexanone	N.D.	2000	1925.04	2000	1804.36	96	90	35-138	6	30
Isopropylbenzene	N.D.	400	464.27	400	436.08	116	109	80-120	6	30
p-Isopropyltoluene	N.D.	400	450.64	400	429.46	113	107	76-120	5	30
Methyl Tertiary Butyl Ether	N.D.	400	405.66	400	384.38	101	96	75-120	5	30
4-Methyl-2-pentanone	N.D.	2000	1950.69	2000	1836.98	98	92	47-133	6	30
Methylene Chloride	N.D.	400	420.62	400	393.86	105	98	77-121	7	30
Naphthalene	26.4	400	344.2	400	345.33	79	80	59-120	0	30
n-Propylbenzene	N.D.	400	456.57	400	432.51	114	108	75-130	5	30

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 03/15/2016 11:24

Group Number: 1636215

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Styrene	N.D.	400	448.88	400	418.59	112	105	80-120	7	30
1,1,1,2-Tetrachloroethane	N.D.	400	418.36	400	390.77	105	98	80-120	7	30
1,1,2,2-Tetrachloroethane	N.D.	400	400.42	400	380.92	100	95	72-120	5	30
Tetrachloroethene	N.D.	400	452.43	400	420.89	113	105	80-129	7	30
Toluene	38.68	400	480.65	400	447.11	110	102	80-120	7	30
1,2,3-Trichlorobenzene	25.08	400	332.11	400	328.5	77	76	69-120	1	30
1,2,4-Trichlorobenzene	N.D.	400	375.91	400	365.76	94	91	66-120	3	30
1,1,1-Trichloroethane	N.D.	400	402.46	400	374.84	101	94	66-126	7	30
1,1,2-Trichloroethane	N.D.	400	408.64	400	382	102	95	80-120	7	30
Trichloroethene	N.D.	400	446.59	400	418.6	112	105	80-120	6	30
Trichlorofluoromethane	N.D.	400	380.24	400	382.55	95	96	67-129	1	30
1,2,3-Trichloropropane	N.D.	400	400.22	400	377.6	100	94	76-120	6	30
1,2,4-Trimethylbenzene	N.D.	400	441.14	400	419.01	110	105	75-120	5	30
1,3,5-Trimethylbenzene	N.D.	400	445.39	400	425.78	111	106	75-120	5	30
Vinyl Chloride	N.D.	400	381.84	400	375.69	95	94	69-120	2	30
m+p-Xylene	N.D.	800	908.98	800	850.62	114	106	80-120	7	30
o-Xylene	N.D.	400	438.77	400	408.19	110	102	80-120	7	30
Xylene (Total)	N.D.	1200	1347.74	1200	1258.81	112	105	80-120	7	30
Batch number: N160672AA	Sample number(s): 8265592-8265593,8265597-8265600,8265602 UNSPK: P265594									
Acetone	N.D.	1500	1398.92	1500	1449.14	93	97	58-138	4	30
Benzene	N.D.	200	240.73	200	249.39	120	125*	78-120	4	30
Bromobenzene	N.D.	200	211	200	220.87	106	110	80-120	5	30
Bromochloromethane	N.D.	200	218.67	200	225.21	109	113	80-125	3	30
Bromodichloromethane	N.D.	200	218.96	200	228.92	109	114	80-120	4	30
Bromoform	N.D.	200	175.75	200	182.34	88	91	67-120	4	30
Bromomethane	N.D.	200	174.57	200	175.33	87	88	53-130	0	30
2-Butanone	N.D.	1500	1519.64	1500	1571.24	101	105	62-131	3	30
n-Butylbenzene	N.D.	200	237.11	200	245.11	119	123*	68-120	3	30
sec-Butylbenzene	N.D.	200	237.68	200	245.16	119	123	68-124	3	30
tert-Butylbenzene	N.D.	200	228.11	200	231.04	114	116	74-121	1	30
Carbon Disulfide	N.D.	200	238.49	200	243.59	119	122*	58-120	2	30
Carbon Tetrachloride	N.D.	200	244.16	200	249.65	122	125	74-130	2	30
Chlorobenzene	N.D.	200	221.56	200	230.47	111	115	80-120	4	30
Chloroethane	N.D.	200	212.44	200	215.26	106	108	56-120	1	30
Chloroform	N.D.	200	233.31	200	242.26	117	121*	80-120	4	30
Chloromethane	N.D.	200	197.78	200	194.76	99	97	65-129	2	30
2-Chlorotoluene	N.D.	200	221.09	200	227.71	111	114	80-120	3	30
4-Chlorotoluene	N.D.	200	217.79	200	225.91	109	113	78-120	4	30
1,2-Dibromo-3-chloropropane	N.D.	200	174.41	200	186.23	87	93	59-120	7	30
Dibromochloromethane	N.D.	200	190.79	200	202.14	95	101	78-120	6	30
1,2-Dibromoethane	N.D.	200	211.45	200	218.12	106	109	80-120	3	30
Dibromomethane	N.D.	200	220.67	200	227.6	110	114	80-120	3	30
1,2-Dichlorobenzene	N.D.	200	207.61	200	216.54	104	108	80-120	4	30
1,3-Dichlorobenzene	N.D.	200	213.1	200	222.07	107	111	80-120	4	30
1,4-Dichlorobenzene	N.D.	200	215.4	200	224.14	108	112	80-120	4	30
Dichlorodifluoromethane	N.D.	200	187.52	200	168.49	94	84	49-127	11	30
1,1-Dichloroethane	N.D.	200	233.18	200	243.65	117	122*	80-120	4	30
1,2-Dichloroethane	N.D.	200	215.26	200	222.22	108	111	72-127	3	30
1,1-Dichloroethene	N.D.	200	249.3	200	255.04	125*	128*	76-124	2	30
cis-1,2-Dichloroethene	N.D.	200	237.74	200	247.99	119	124*	80-120	4	30
trans-1,2-Dichloroethene	N.D.	200	245.51	200	258.13	123*	129*	80-120	5	30
1,2-Dichloropropane	N.D.	200	237.88	200	245.45	119	123*	80-120	3	30

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
1,3-Dichloropropane	N.D.	200	208.45	200	218.63	104	109	80-120	5	30
2,2-Dichloropropane	N.D.	200	229.49	200	236.07	115	118	48-159	3	30
1,1-Dichloropropene	N.D.	200	232.68	200	243.05	116	122	80-126	4	30
cis-1,3-Dichloropropene	N.D.	200	212.3	200	226.97	106	113	80-120	7	30
trans-1,3-Dichloropropene	N.D.	200	206.14	200	218.88	103	109	76-120	6	30
Ethylbenzene	23.16	200	260.39	200	264.45	119	121*	78-120	2	30
Hexachlorobutadiene	N.D.	200	185.78	200	194.79	93	97	61-127	5	30
2-Hexanone	N.D.	1000	997.04	1000	1030.87	100	103	35-138	3	30
Isopropylbenzene	10.97	200	248.37	200	254.6	119	122*	80-120	2	30
p-Isopropyltoluene	N.D.	200	232.16	200	240.37	116	120	76-120	3	30
Methyl Tertiary Butyl Ether	N.D.	200	210.55	200	220.72	105	110	75-120	5	30
4-Methyl-2-pentanone	N.D.	1000	1029.46	1000	1067.62	103	107	47-133	4	30
Methylene Chloride	N.D.	200	229.17	200	235.46	115	118	77-121	3	30
Naphthalene	13.91	200	185.31	200	198.61	86	92	59-120	7	30
n-Propylbenzene	29.69	200	271.92	200	276.53	121	123	75-130	2	30
Styrene	N.D.	200	228.45	200	237.59	114	119	80-120	4	30
1,1,1,2-Tetrachloroethane	N.D.	200	206.7	200	219.49	103	110	80-120	6	30
1,1,2,2-Tetrachloroethane	N.D.	200	207.93	200	214.93	104	107	72-120	3	30
Tetrachloroethene	N.D.	200	229.69	200	236.87	115	118	80-129	3	30
Toluene	N.D.	200	226.45	200	236.01	113	118	80-120	4	30
1,2,3-Trichlorobenzene	N.D.	200	163.21	200	176.25	82	88	69-120	8	30
1,2,4-Trichlorobenzene	N.D.	200	185.91	200	196.87	93	98	66-120	6	30
1,1,1-Trichloroethane	N.D.	200	209.12	200	215.46	105	108	66-126	3	30
1,1,2-Trichloroethane	N.D.	200	211.86	200	218.55	106	109	80-120	3	30
Trichloroethene	N.D.	200	242.16	200	248.41	121*	124*	80-120	3	30
Trichlorofluoromethane	N.D.	200	227.52	200	216.67	114	108	67-129	5	30
1,2,3-Trichloropropane	N.D.	200	207.06	200	212.34	104	106	76-120	3	30
1,2,4-Trimethylbenzene	519.36	200	765.73	200	762	123*	121*	75-120	0	30
1,3,5-Trimethylbenzene	117.08	200	355.5	200	360.36	119	122*	75-120	1	30
Vinyl Chloride	N.D.	200	213.92	200	209.77	107	105	69-120	2	30
m+p-Xylene	46.12	400	522.33	400	531.46	119	121*	80-120	2	30
o-Xylene	30.2	200	256.28	200	266.24	113	118	80-120	4	30
Xylene (Total)	76.32	600	778.61	600	797.7	117	120	80-120	2	30
Batch number: N160692AA	Sample number(s): 8265588-8265590 UNSPK: P267632									
Acetone	N.D.	3000	2825.83	3000	2817.77	94	94	58-138	0	30
Benzene	N.D.	400	416.55	400	417.24	104	104	78-120	0	30
Bromobenzene	N.D.	400	400.01	400	402.85	100	101	80-120	1	30
Bromochloromethane	N.D.	400	392.2	400	392.38	98	98	80-125	0	30
Bromodichloromethane	N.D.	400	395.2	400	398.7	99	100	80-120	1	30
Bromoform	N.D.	400	350.81	400	350.89	88	88	67-120	0	30
Bromomethane	N.D.	400	259.44	400	240.68	65	60	53-130	8	30
2-Butanone	N.D.	3000	2778.33	3000	2835.17	93	95	62-131	2	30
n-Butylbenzene	N.D.	400	429.84	400	433.24	107	108	68-120	1	30
sec-Butylbenzene	N.D.	400	432.14	400	436.26	108	109	68-124	1	30
tert-Butylbenzene	N.D.	400	420.11	400	407.44	105	102	74-121	3	30
Carbon Disulfide	N.D.	400	366.29	400	362.37	92	91	58-120	1	30
Carbon Tetrachloride	N.D.	400	403.98	400	406.09	101	102	74-130	1	30
Chlorobenzene	N.D.	400	419.89	400	423	105	106	80-120	1	30
Chloroethane	N.D.	400	311.02	400	301.57	78	75	56-120	3	30
Chloroform	N.D.	400	414.98	400	414.36	104	104	80-120	0	30
Chloromethane	N.D.	400	320.18	400	301.83	80	75	65-129	6	30
2-Chlorotoluene	N.D.	400	420.44	400	421.9	105	105	80-120	0	30

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
4-Chlorotoluene	N.D.	400	416.69	400	420.86	104	105	78-120	1	30
1,2-Dibromo-3-chloropropane	N.D.	400	342.27	400	355.39	86	89	59-120	4	30
Dibromochloromethane	N.D.	400	375.06	400	380.7	94	95	78-120	1	30
1,2-Dibromoethane	N.D.	400	405.61	400	411.64	101	103	80-120	1	30
Dibromomethane	N.D.	400	407.37	400	408.95	102	102	80-120	0	30
1,2-Dichlorobenzene	N.D.	400	406.51	400	413.63	102	103	80-120	2	30
1,3-Dichlorobenzene	N.D.	400	407.28	400	410.99	102	103	80-120	1	30
1,4-Dichlorobenzene	N.D.	400	414.01	400	419.55	104	105	80-120	1	30
Dichlorodifluoromethane	N.D.	400	300.3	400	291.62	75	73	49-127	3	30
1,1-Dichloroethane	N.D.	400	405.65	400	409.01	101	102	80-120	1	30
1,2-Dichloroethane	N.D.	400	382.82	400	389.66	96	97	72-127	2	30
1,1-Dichloroethene	N.D.	400	403.14	400	394.98	101	99	76-124	2	30
cis-1,2-Dichloroethene	N.D.	400	411.61	400	412	103	103	80-120	0	30
trans-1,2-Dichloroethene	N.D.	400	418.86	400	416.16	105	104	80-120	1	30
1,2-Dichloropropane	N.D.	400	426.12	400	425.83	107	106	80-120	0	30
1,3-Dichloropropane	N.D.	400	406.52	400	412.22	102	103	80-120	1	30
2,2-Dichloropropane	N.D.	400	386.43	400	387.8	97	97	48-159	0	30
1,1-Dichloropropene	N.D.	400	387.57	400	391.01	97	98	80-126	1	30
cis-1,3-Dichloropropene	N.D.	400	392.05	400	396.04	98	99	80-120	1	30
trans-1,3-Dichloropropene	N.D.	400	399.09	400	407.25	100	102	76-120	2	30
Ethylbenzene	N.D.	400	423.45	400	425.18	106	106	78-120	0	30
Hexachlorobutadiene	N.D.	400	335.77	400	343.33	84	86	61-127	2	30
2-Hexanone	N.D.	2000	1916.33	2000	1971.93	96	99	35-138	3	30
Isopropylbenzene	N.D.	400	422.85	400	423.55	106	106	80-120	0	30
p-Isopropyltoluene	N.D.	400	423.91	400	426.5	106	107	76-120	1	30
Methyl Tertiary Butyl Ether	N.D.	400	378.07	400	386.86	95	97	75-120	2	30
4-Methyl-2-pentanone	N.D.	2000	1884.43	2000	1882.64	94	94	47-133	0	30
Methylene Chloride	N.D.	400	398.28	400	397.8	100	99	77-121	0	30
Naphthalene	N.D.	400	336.34	400	362.56	84	91	59-120	8	30
n-Propylbenzene	N.D.	400	435.69	400	436.35	109	109	75-130	0	30
Styrene	N.D.	400	426.81	400	430.51	107	108	80-120	1	30
1,1,1,2-Tetrachloroethane	N.D.	400	400.29	400	396.16	100	99	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	400	426.61	400	428.42	107	107	72-120	0	30
Tetrachloroethene	N.D.	400	402.94	400	405.07	101	101	80-129	1	30
Toluene	N.D.	400	422.01	400	427.98	106	107	80-120	1	30
1,2,3-Trichlorobenzene	N.D.	400	320.94	400	337.14	80	84	69-120	5	30
1,2,4-Trichlorobenzene	N.D.	400	343.82	400	358.92	86	90	66-120	4	30
1,1,1-Trichloroethane	N.D.	400	381.12	400	380.45	95	95	66-126	0	30
1,1,2-Trichloroethane	N.D.	400	414.2	400	411.36	104	103	80-120	1	30
Trichloroethene	N.D.	400	412.23	400	416.72	103	104	80-120	1	30
Trichlorofluoromethane	N.D.	400	360.86	400	352.64	90	88	67-129	2	30
1,2,3-Trichloropropane	N.D.	400	407.42	400	418.57	102	105	76-120	3	30
1,2,4-Trimethylbenzene	N.D.	400	430.01	400	430.09	108	108	75-120	0	30
1,3,5-Trimethylbenzene	N.D.	400	425.72	400	431.96	106	108	75-120	1	30
Vinyl Chloride	N.D.	400	346.19	400	324.82	87	81	69-120	6	30
m+p-Xylene	N.D.	800	855.6	800	860.21	107	108	80-120	1	30
o-Xylene	N.D.	400	408.09	400	408.82	102	102	80-120	0	30
Xylene (Total)	N.D.	1200	1263.68	1200	1269.02	105	106	80-120	0	30
Batch number: N160711AA	Sample number(s): 8265594-8265596 UNSPK: 8265594									
Acetone	N.D.	150	126.04	150	125.5	84	84	58-138	0	30
Benzene	N.D.	20	22.69	20	23.02	113	115	78-120	1	30
Bromobenzene	N.D.	20	21.3	20	21.19	107	106	80-120	0	30

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 03/15/2016 11:24

Group Number: 1636215

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Bromochloromethane	N.D.	20	20.34	20	20.1	102	100	80-125	1	30
Bromodichloromethane	N.D.	20	21.48	20	21.8	107	109	80-120	1	30
Bromoform	N.D.	20	17.8	20	17.82	89	89	67-120	0	30
Bromomethane	N.D.	20	14.6	20	14.38	73	72	53-130	1	30
2-Butanone	N.D.	150	144.24	150	145.52	96	97	62-131	1	30
n-Butylbenzene	12.69	20	36.49	20	36.84	119	121*	68-120	1	30
sec-Butylbenzene	8.55	20	33.17	20	33.38	123	124	68-124	1	30
tert-Butylbenzene	N.D.	20	25.31	20	25.28	127*	126*	74-121	0	30
Carbon Disulfide	N.D.	20	21.23	20	21.51	106	108	58-120	1	30
Carbon Tetrachloride	N.D.	20	22.55	20	22.94	113	115	74-130	2	30
Chlorobenzene	N.D.	20	22.29	20	22.05	111	110	80-120	1	30
Chloroethane	N.D.	20	17.93	20	17.94	90	90	56-120	0	30
Chloroform	N.D.	20	22.9	20	23.31	115	117	80-120	2	30
Chloromethane	N.D.	20	18.7	20	18.34	94	92	65-129	2	30
2-Chlorotoluene	N.D.	20	22.73	20	22.69	114	113	80-120	0	30
4-Chlorotoluene	N.D.	20	22.66	20	22.44	113	112	78-120	1	30
1,2-Dibromo-3-chloropropane	N.D.	20	25.21	20	26.1	126*	131*	59-120	3	30
Dibromochloromethane	N.D.	20	19.41	20	19.44	97	97	78-120	0	30
1,2-Dibromoethane	N.D.	20	21.26	20	21.35	106	107	80-120	0	30
Dibromomethane	N.D.	20	21.29	20	21.14	106	106	80-120	1	30
1,2-Dichlorobenzene	N.D.	20	21.39	20	21.38	107	107	80-120	0	30
1,3-Dichlorobenzene	N.D.	20	21.99	20	21.91	110	110	80-120	0	30
1,4-Dichlorobenzene	N.D.	20	21.68	20	21.68	108	108	80-120	0	30
Dichlorodifluoromethane	N.D.	20	18.35	20	18.29	92	91	49-127	0	30
1,1-Dichloroethane	N.D.	20	21.82	20	22	109	110	80-120	1	30
1,2-Dichloroethane	N.D.	20	19.97	20	20.26	100	101	72-127	1	30
1,1-Dichloroethene	N.D.	20	22.52	20	22.78	113	114	76-124	1	30
cis-1,2-Dichloroethene	0.595	20	22.78	20	22.96	111	112	80-120	1	30
trans-1,2-Dichloroethene	N.D.	20	23	20	23.13	115	116	80-120	1	30
1,2-Dichloropropane	N.D.	20	23.14	20	23.43	116	117	80-120	1	30
1,3-Dichloropropane	N.D.	20	21.02	20	20.97	105	105	80-120	0	30
2,2-Dichloropropane	N.D.	20	21.83	20	21.98	109	110	48-159	1	30
1,1-Dichloropropene	N.D.	20	22.45	20	22.41	112	112	80-126	0	30
cis-1,3-Dichloropropene	N.D.	20	21.23	20	21.4	106	107	80-120	1	30
trans-1,3-Dichloropropene	N.D.	20	21.24	20	21.63	106	108	76-120	2	30
Ethylbenzene	35.93	20	59.23	20	59.5	117	118	78-120	0	30
Hexachlorobutadiene	N.D.	20	19.24	20	19.58	96	98	61-127	2	30
2-Hexanone	N.D.	100	101.92	100	102.46	102	102	35-138	1	30
Isopropylbenzene	20.67	20	44.86	20	44.92	121*	121*	80-120	0	30
p-Isopropyltoluene	6.94	20	31.2	20	31.13	121*	121*	76-120	0	30
Methyl Tertiary Butyl Ether	N.D.	20	19.88	20	20.28	99	101	75-120	2	30
4-Methyl-2-pentanone	N.D.	100	96.43	100	99.54	96	100	47-133	3	30
Methylene Chloride	N.D.	20	21.36	20	21.44	107	107	77-121	0	30
Naphthalene	18.16	20	38.4	20	39.67	101	108	59-120	3	30
n-Propylbenzene	51.6	20	73.56	20	74.19	110	113	75-130	1	30
Styrene	N.D.	20	24.83	20	24.54	124*	123*	80-120	1	30
1,1,1,2-Tetrachloroethane	N.D.	20	21.02	20	20.86	105	104	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	20	22.04	20	22.07	110	110	72-120	0	30
Tetrachloroethene	0.793	20	23.03	20	22.97	111	111	80-129	0	30
Toluene	N.D.	20	23.27	20	22.95	116	115	80-120	1	30
1,2,3-Trichlorobenzene	N.D.	20	17.54	20	18.46	88	92	69-120	5	30
1,2,4-Trichlorobenzene	N.D.	20	19.9	20	20.3	99	102	66-120	2	30
1,1,1-Trichloroethane	N.D.	20	20.08	20	20.08	100	100	66-126	0	30

*- Outside of specification
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P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 03/15/2016 11:24

Group Number: 1636215

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l	ug/l					
1,1,2-Trichloroethane	N.D.	20	25.38	20	25.58	127*	128*	80-120	1	30
Trichloroethene	0.564	20	23.46	20	23.64	114	115	80-120	1	30
Trichlorofluoromethane	N.D.	20	20.3	20	19.72	102	99	67-129	3	30
1,2,3-Trichloropropane	N.D.	20	21.25	20	21.28	106	106	76-120	0	30
1,2,4-Trimethylbenzene	456.77	20	451.87	20	441.55	-24 (2)	-75 (2)	75-120	2	30
1,3,5-Trimethylbenzene	168.71	20	183.96	20	177.55	76 (2)	44 (2)	75-120	4	30
Vinyl Chloride	N.D.	20	20.24	20	20.18	101	101	69-120	0	30
m+p-Xylene	74.39	40	119.91	40	119.59	114	113	80-120	0	30
o-Xylene	50.31	20	72.47	20	69.94	111	98	80-120	4	30
Xylene (Total)	124.7	60	192.37	60	189.53	113	108	80-120	1	30
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 16063A94A	Sample number(s): 8265587-8265602 UNSPK: 8265594									
NWTPH-Gx water C7-C12	7880.51	11000	19202.3	11000	18766.65	103	99	79-120	2	30
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 160680019A	Sample number(s): 8265587-8265601 UNSPK: 8265594									
Ethylene dibromide	N.D.	0.122	0.0947	0.122	0.0934	78	77	60-140	1	20
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 160680015A	Sample number(s): 8265587-8265597,8265599 UNSPK: 8265594									
DRO C12-C24 w/Si Gel	908.52	1530	2325.45	1530	2246.68	93	87	32-117	3	20
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 160636050002A	Sample number(s): 8265587-8265594,8265597-8265601 UNSPK: 8265594									
Lead	4.35	15	19.36	15	20	100	104	75-125	3	20

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	ug/l	ug/l		
Batch number: 160636050002A	Sample number(s): 8265587-8265594,8265597-8265601 BKG: 8265594			
Lead	4.35	4.10	6 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Solvent Compound - Water
Batch number: N160641AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8265587	100	102	99	95
Blank	99	101	99	97
LCS	100	100	100	99
LCSD	100	101	99	98

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
MS	100	101	101	99
MSD	99	99	100	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Solvent Compound - Water
Batch number: N160672AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8265592	102	103	97	95
8265593	104	104	97	94
8265597	102	103	96	94
8265598	102	104	98	97
8265599	103	105	94	93
8265600	104	104	97	94
8265602	103	105	96	93
Blank	102	104	97	95
LCS	102	103	99	98
MS	102	102	99	99
MSD	101	101	99	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Solvent Compound - Water
Batch number: N160692AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8265588	100	102	101	99
8265589	101	102	101	99
8265590	102	103	99	94
Blank	101	103	100	94
LCS	100	100	102	100
LCSD	100	101	103	100
MS	100	101	102	100
MSD	100	102	103	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Solvent Compound - Water
Batch number: N160701AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8265591	100	102	101	99
8265601	100	102	101	99
Blank	99	101	100	96
LCS	99	99	101	100
LCSD	100	100	101	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Solvent Compound - Water
Batch number: N160711AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8265594	100	102	99	100
8265595	98	98	101	100
8265596	100	99	101	100

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	100	102	98	94
LCS	99	101	101	101
LCSD	99	100	101	101
MS	98	98	101	100
MSD	100	99	101	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 16063WAG026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
8265587	95	78	82
8265588	92	69	87
8265589	98	93	91
8265590	99	95	88
8265591	96	90	85
8265592	92	91	82
8265593	94	96	86
8265594	94	93	87
8265597	85	80	77
8265598	95	94	83
8265599	91	82	83
8265600	86	80	82
8265601	91	86	85
Blank	94	98	85
LCS	94	102	89
LCSD	95	96	92
Limits:	50-133	41-137	43-126

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 16063A94A

	Trifluorotoluene-F
8265587	80
8265588	83
8265589	82
8265590	74
8265591	90
8265592	74
8265593	88
8265594	83
8265595	100
8265596	98
8265597	81
8265598	88
8265599	85
8265600	88
8265601	93
8265602	74
Blank	77
LCS	91
MS	100
MSD	98

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

Limits: 63-135

Analysis Name: EDB by 8011
Batch number: 160680019A

	1,1,2,2-Tetrachloroethane
8265587	82
8265588	96
8265589	97
8265590	99
8265591	115
8265592	102
8265593	114
8265594	116
8265595	76
8265596	90
8265597	110
8265598	118
8265599	34*
8265600	119
8265601	112
Blank	91
LCS	96
LCSD	99
MS	76
MSD	90

Limits: 46-136

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 160680015A

	Orthoterphenyl
8265587	87
8265588	97
8265589	92
8265590	81
8265591	89
8265592	89
8265593	92
8265594	91
8265595	87
8265596	85
8265597	83
8265599	84
Blank	93
LCS	95
MS	87
MSD	85

Limits: 50-150

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 160700007A

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1636215
Reported: 03/15/2016 11:24

	Orthoterphenyl
8265598	94
8265600	89
8265601	51
Blank	83
LCS	95
LCSD	90
Limits:	50-150

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13534 / 1636215 / 8265587-602

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT | LAB: Lancaster | DHS #

Facility #	P6605173 / Chevron 301233
CLIENT	GHD
SITE	Tidewater Seattle
	2800 Martin Luther King Jr., Way
	Seattle, WA

SPECIAL INSTRUCTIONS

Invoice: As Contracted

Report to: GHD - Matt Davis - 253.573.1218
mdavis@ghdd.com

J Value reporting needed, Must meet lowest detection limit

MS/MSD for NWTPH Gx, NWTPH Dx, VOCs, EDB Only

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H_2O	CONTAINERS TOTAL	CONTAINERS Type	C = COMPOSITE ALL CONTAINERS	VOC's Full Scan(8260B)	NWTPH Gx	NWTPH Dx w/SGC	Total Lead	PAH's 8270 SIM	EDB 8011	ADD'L INFORMATION	CONDITION	LAB SAMPLE #
GW-022516-LB-MW-1	2/25/16	1218	W	13	MIXED		X	X	X	X	X	X			
GW-022516-LB-MW-2		1338	W	13			X	X	X	X	X	X			
GW-022516-LB-MW-3		1421	W	13			X	X	X	X	X	X			
GW-022516-LB-MW-4		1258	W	13			X	X	X	X	X	X			
GW-022616-LB-MW-5	2/26/16	1013	W	13			X	X	X	X	X	X			
GW-022616-LB-MW-6		0842	W	13			X	X	X	X	X	X			
GW-022616-LB-MW-7		0927	W	13			X	X	X	X	X	X			
GW-022616-LB-MW-8		1100	W	39			X	X	X	X	X	X	MS/MSD		
GW-022516-LB-MW-9	2/25/16	1141	W	13			X	X	X	X	X	X			
GW-022616-LB-MW-10	2/26/16	0800	W	13			X	X	X	X	X	X			
GW-022516-LB-MW-11	2/25/16	1016	W	13			X	X	X	X	X	X			

SAMPLING COMPLETED	DATE	TIME
	2/26/16	1130

SAMPLING PERFORMED BY: LEE BURES

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	2/26/16		ELLE	2/29/16	11:15
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
			ELLE	3/1/16	1605

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

13534 / 1636215 / 8265587-602

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT | LAB: Lancaster | DHS #

Facility #	P6605173 / Chevron 301233
CLIENT	GHD
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	Seattle, WA

SPECIAL INSTRUCTIONS

Invoice: As Contracted

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mdavis@ghdd.com

J Value reporting needed, Must meet lowest detection limit

MS/MSD for NWTPH Gx, NWTPH Dx, VOCs, EDB Only

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	CONTAINERS Type	C = COMPOSITE ALL CONTAINERS	VOC's Full Scan(8260B)	NWTPH Gx	NWTPH Dx w/SGC	Total Lead	PAH's 8270 SIM	EDB 8011	ADD'L INFORMATION		CONDITION	LAB SAMPLE #
GW-022516-LB-MW-13	2/25/16	1050	W	13	MIXED		X	X	X	X	X	X				
GW-022616-LB-DUP	2/26/16	—	W	13	"		X	X	X	X	X	X				
GW-022516-LB-TB	2/25/16	0700	W	2	VOA		X	X				X				

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	2/26/16	1130	LEE BURES	Standard TAT

RELEASED BY	DATE 2/26/16	TIME	RECEIVED BY	DATE 2/29/16	TIME 1145
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE 3/1/16	TIME 1605

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

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Sample Administration Receipt Documentation Log

Doc Log ID: 137973

Group Number(s): 1636215

Client: GHD

Delivery and Receipt Information

Delivery Method:	SeaTac	Arrival Timestamp:	03/01/2016 16:05
Number of Packages:	6	Number of Projects:	1
State/Province of Origin:	WA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	No
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	Yes
Samples Chilled:	Yes	VOA IDs (≥ 6mm):	See Below
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	2
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

VOA Vial IDs (Headspace ≥ 6mm): 1 Trip Blank Vial

Unpacked by Patrick Engle (3472) at 19:38 on 03/01/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.9	DT	Wet	Y	Bagged	N
2	DT121	0.7	DT	Wet	Y	Bagged	N
3	DT121	0.7	DT	Wet	Y	Bagged	N
4	DT121	1.4	DT	Wet	Y	Bagged	N
5	DT121	0.4	DT	Wet	Y	Bagged	N
6	DT121	1.3	DT	Wet	Y	Bagged	N

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label	Comments
GW-022516-LB-MW-4	2/26/2016 12:58	Date = 2/25/2016 on COC

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Attachment C
Summary of Previous Investigations

Attachment C Summary of Previous Investigations and Remediation

1989

Soil and groundwater investigations at the Site began with the UST removals in 1989. All soil samples collected from the UST excavation, in the northwest corner of the Property, were documented below the Model Toxics Control Act (MTCA) Method A Cleanup Levels for constituents of concern (COC). (Stantec, 2012).

February 2005

Additional soil and groundwater investigations were conducted by G-Logics in February 2005. A groundwater sample collected from boring GL-4, contained total petroleum hydrocarbons (TPH) in the gasoline range (TPHg) at 5,900 micrograms per liter (μg/L). The sample area was located between the former western and eastern pump islands. G-Logics also conducted an investigation beneath the former heating oil UST. Impacted soil was found in this location but it did not exceed MTCA Method A cleanup levels. (Stantec, 2012).

June 2005

Further soil and groundwater investigation of the western and eastern pump island area was conducted by G-Logics in June 2005 (soil borings P1 through P11). Laboratory results confirmed that the highest concentrations of petroleum-impacted soil, mostly in the gasoline range, were from soil borings P7, P8, and P9 in the vicinity of the western pump island, which all exceeded MTCA Method A cleanup levels. The impact was primarily observed between 15 and 20 feet below ground surface (bgs). (Stantec, 2012).

August 2005

In August 2005, G-Logics began the installation and operation of an ozone treatment system. Five ozone injection points (IP-1 through IP-5) and monitoring wells MW-1, MW-2, and MW-3 were installed. The ozone system began operation on August 26, 2005. (Stantec, 2012).

June 2006

Elevated concentrations of TPHg were regularly detected at MW-3, located west of the western pump island. As a result, G-Logics continued soil investigations in the vicinity of MW-3 in June 2006 due to elevated concentrations of TPHg detected in the groundwater well during quarterly sampling activities. Petroleum related compounds were either non-detect or were below the MTCA Method A cleanup levels in the borings, supporting that the source area was concentrated in the area of the west pump island. (Stantec, 2012).

August 2006

In August 2006, a second compressor was added to augment the ozone injection system. The second compressor was dedicated to providing a primary source of air flow to the wells; the original compressor was dedicated to providing air flow to the ozone generator. (Stantec, 2012).

December 2006 through June 2007

To supplement the ozone treatment system, in December 2006, G-Logics oversaw the installation of a horizontal pipe for In-Situ Chemical Oxidation (ISCO) in an area up-gradient of the western pump island. The pipe was installed at approximately 6 to 7 feet; installation at a greater depth was unfeasible due to soil caving. Between January and March 2007, ISCO using Fenton's Reagent was performed to supplement ozone injection remediation efforts. On January 4, 2007, a buffered, iron-catalyst was introduced with the Fenton's application. In March 2007, a Fenton's application treatment well (TW-1) was installed directly west of the west pump island source area. The ozone system was shut down in June 2007. (Stantec, 2012).

April through July 2011

In April and July 2011, Stantec Consulting oversaw Cascade Drilling, L.P. advance seven soil borings (B-1 through B-7) and install five 2-inch diameter groundwater monitoring wells (MW-6 through MW-10). Analytical results from the smear zone and water bearing zone from soil collected between 10 and 17 feet bgs contained relatively low to non-detectable concentrations for TPHg, TPH in the diesel range (TPHd), TPH in the heavy oil range (TPHo) and benzene, toluene, ethylbenzene, and total xylenes (collectively referred to as BTEX) except for the samples collected from the former heating oil UST area (B-3 and MW-9) at 10 and 15 feet bgs. Soil samples screened in the vadose zone, in general, contained low to non-detectable concentrations of TPHg, TPHd, TPHo, and BTEX. Groundwater samples collected in borings B-1 through B-7 showed slightly elevated concentrations of TPHg and total xylenes near the former pump island (borings B-2 and B-6). Down-gradient of the Site, in borings B-4 and B-5, concentrations of TPHg and BTEX were below the laboratory method detection limit (MDL). (Stantec, 2012).

References

Stantec Consulting Corporation (Stantec, 2012), First Quarter 2012 Monitoring and Sampling Report, April 27, 2012.