



**CONESTOGA-ROVERS  
& ASSOCIATES**

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November 7, 2013

Reference No. 061992

Mr. John Bails  
Department of Ecology  
Northwest Regional Office  
3190 160<sup>th</sup> Avenue Southeast  
Bellevue, Washington 98008

Re: Second Quarter 2013 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

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Dear Mr. Bails,

Conestoga-Rovers & Associates (CRA) is submitting this *Second Quarter 2013 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Phillips 66 Company and Chevron Environmental Management Company. Groundwater monitoring and sampling was performed by CRA. CRA's field forms are presented as Attachment A. Eurofins Lancaster Laboratory Environmental, LLCs' *Analytical Results* report is included as Attachment B. Graphs depicting total petroleum hydrocarbons as diesel (TPHd), TPH as gasoline (TPHg), and benzene concentrations over time for select wells are included as Attachment C. A summary of previous site investigations is included as Attachment D. A site map is presented on Figure 2.

### **RESULTS OF SECOND QUARTER 2013 EVENT**

On May 23 and 24, 2013, CRA 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                | 0.04 foot/foot                     |
| • Approximate Depth to Water        | 11 to 13 feet below grade          |
| • Approximate Groundwater Elevation | 46 to 51 feet above mean sea level |

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Current and historical groundwater monitoring and sampling data are presented in Table 1, and current concentration data 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)
<i>MTCA Method A Cleanup Levels</i>	<b>800/1000*</b>	<b>500</b>	<b>500</b>	<b>5</b>	<b>1000</b>	<b>700</b>	<b>1000</b>
MW-1	<50	<29	<67	<0.5	<0.5	<0.5	<0.5
MW-2	470	200	<66	0.7	<0.5	<0.5	3
MW-3	<b>5,800</b>	240	<67	<0.5	<0.5	160	550
MW-4	<50	<29	<67	<0.5	<0.5	<0.5	<0.5
MW-5	360	64	<67	<0.5	<0.5	4	6
MW-6	<50	<30	<70	<0.5	<0.5	<0.5	<0.5
MW-7	<50	<31	<72	<0.5	<0.5	<0.5	<0.5
MW-8	<b>6,800</b>	380	<68	<0.5	<0.5	87	700
MW-8 DUP	<b>7,000</b>	380	<68	<0.5	0.5	100	810
MW-9	100	<29	<67	<0.5	<0.5	<0.5	<0.5
MW-10	<50	<29	<67	<0.5	<0.5	<0.5	<0.5
<b>Bold</b>	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.						
TPHo	Total petroleum hydrocarbons as oil						

## 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 and MW-8, with the highest concentration detected at MW-8 (Figure 5).
- TPHd concentrations were below MTCA Method A cleanup levels in all wells.
- TPHo concentrations were below MTCA Method A cleanup levels in all wells.
- Benzene, toluene, ethylbenzene, and total xylenes concentrations were all below the MTCA Method A cleanup levels in groundwater.



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- With the exception of source area well MW-8, hydrocarbon concentrations exhibit decreasing concentration trends over time. Hydrocarbon concentrations in MW-8 have been stable.

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

#### **ANTICIPATED FUTURE ACTIVITIES**

##### ***Groundwater Monitoring***

CRA will monitor and sample site wells per the established schedule. The third quarter 2013 event is scheduled for August 2013. CRA 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***

CRA is currently preparing a RI/FS Work Plan to submit to the Department of Ecology during the fourth quarter of 2013.

Please contact Edwin Turner at (425) 563-6500 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Edwin Turner

ET/aa/6  
Encl.



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& ASSOCIATES**

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Figure 1	Vicinity Map
Figure 2	Site Plan
Figure 3	Groundwater Elevations and Contour Map
Figure 4	Groundwater Concentration Map
Figure 5	TPHg Isoconcentration Contour Map
Figure 6	TPHd Isoconcentration Contour Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Concentration Trend Graphs
Attachment D	Summary of Previous Investigations

cc: Mr. Brett Hunter, Chevron (*electronic copy*)  
Mr. Ed Ralston, Phillips 66 (*electronic copy*)  
Thom Morin, EP Inc. (*electronic copy*)

## FIGURES

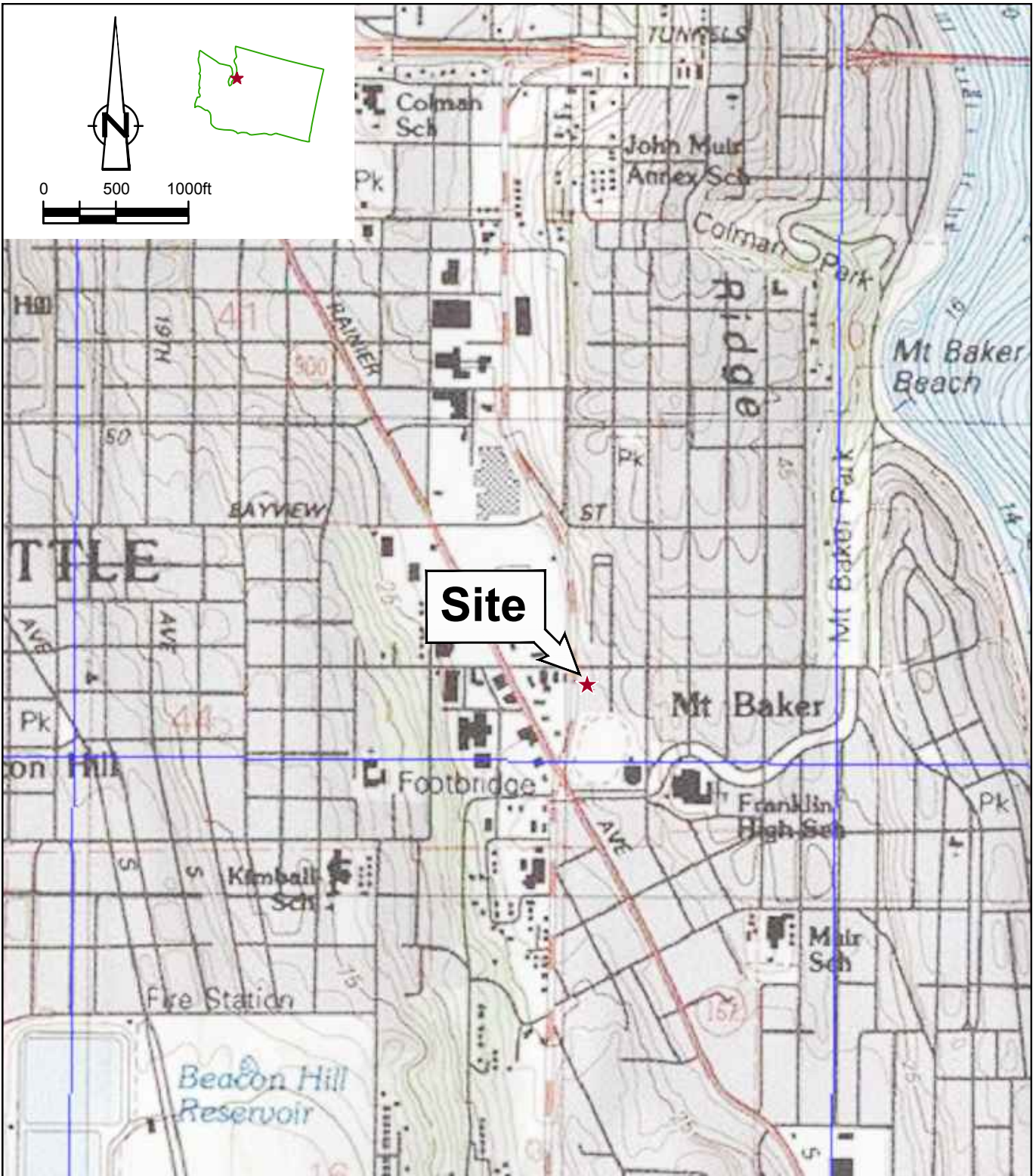
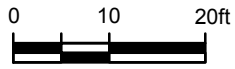


Figure 1

VICINITY MAP  
 FORMER TIDEWATER SERVICE STATION  
 PHILLIPS 66 SITE 5173  
 CHEVRON SITE 301233  
 2800 MARTIN LUTHER KING WAY SOUTH  
*Seattle, Washington*





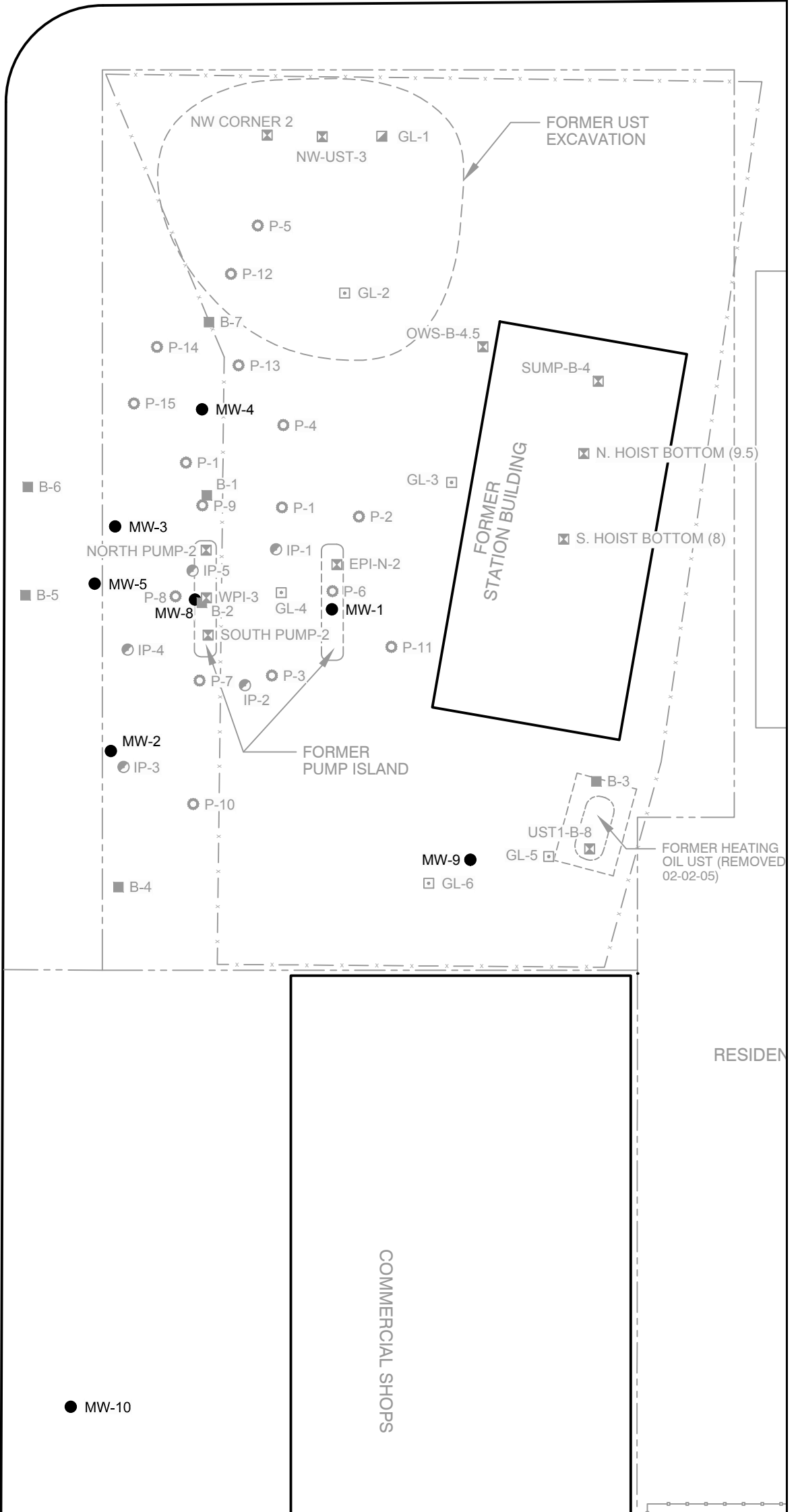
**LEGEND**

- MW-1 GROUNDWATER MONITORING WELL
- P-1 PREVIOUS GEOPROBE BORING
- B-4 SOIL BORING
- GL-2 AUGER BORING LOCATION WITH GROUNDWATER SAMPLE
- ▣ GL-1 AUGER BORING LOCATION
- IP-1 FORMER INJECTION WELL LOCATION
- ▣ B-4 SOIL SAMPLE LOCATION



MARTIN LUTHER KING WAY

SOUTH McCLELLAN STREET



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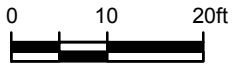
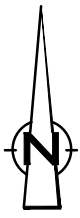
COMMERCIAL SHOPS

**Figure 2**  
**SITE PLAN**  
**FORMER TIDEWATER SERVICE STATION**  
**PHILLIPS 66 SITE 5173**  
**CHEVRON SITE 301233**  
**2800 MARTIN LUTHER KING WAY SOUTH**  
*Seattle, Washington*





SOUTH McCLELLAN STREET



**LEGEND**

- MW-1 GROUNDWATER MONITORING WELL
- WELL WELL DESIGNATION
- ELEV GROUNDWATER ELEVATION (MSL)
- 50.0 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION AND GRADIENT
- \* SAMPLED ON 5/24/2013

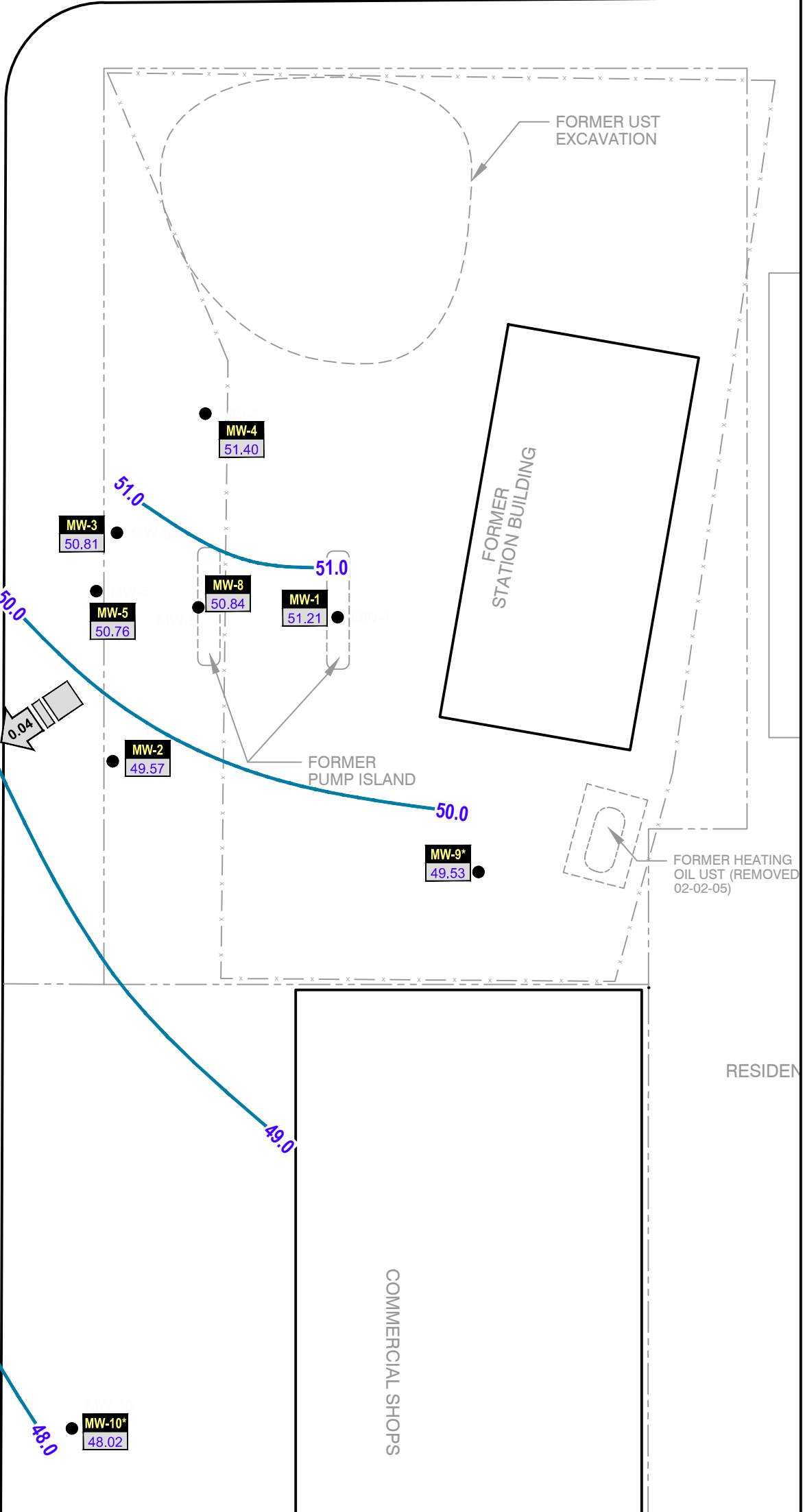


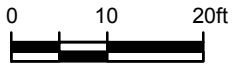
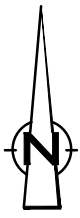
Figure 3

GROUNDWATER ELEVATION CONTOUR MAP  
 FORMER TIDEWATER SERVICE STATION  
 PHILLIPS 66 SITE 5173  
 CHEVRON SITE 301233  
 2800 MARTIN LUTHER KING WAY SOUTH  
 Seattle, Washington  
 May 23, 2013





SOUTH McCLELLAN STREET



**LEGEND**

- MW-1 GROUNDWATER MONITORING WELL
- WELL** WELL DESIGNATION
- TPHg TPHg CONCENTRATION (µg/L)
- TPHd TPHd CONCENTRATION (µg/L)
- BENZ BENZENE CONCENTRATION (µg/L)
- TOUL TOULENE CONCENTRATION (µg/L)
- ETH ETHYLBENZENE CONCENTRATION (µg/L)
- TOTAL TOTAL XYLENES CONCENTRATION (µg/L)
- \* SAMPLED ON 5/24/2013
- D DUPLICATE

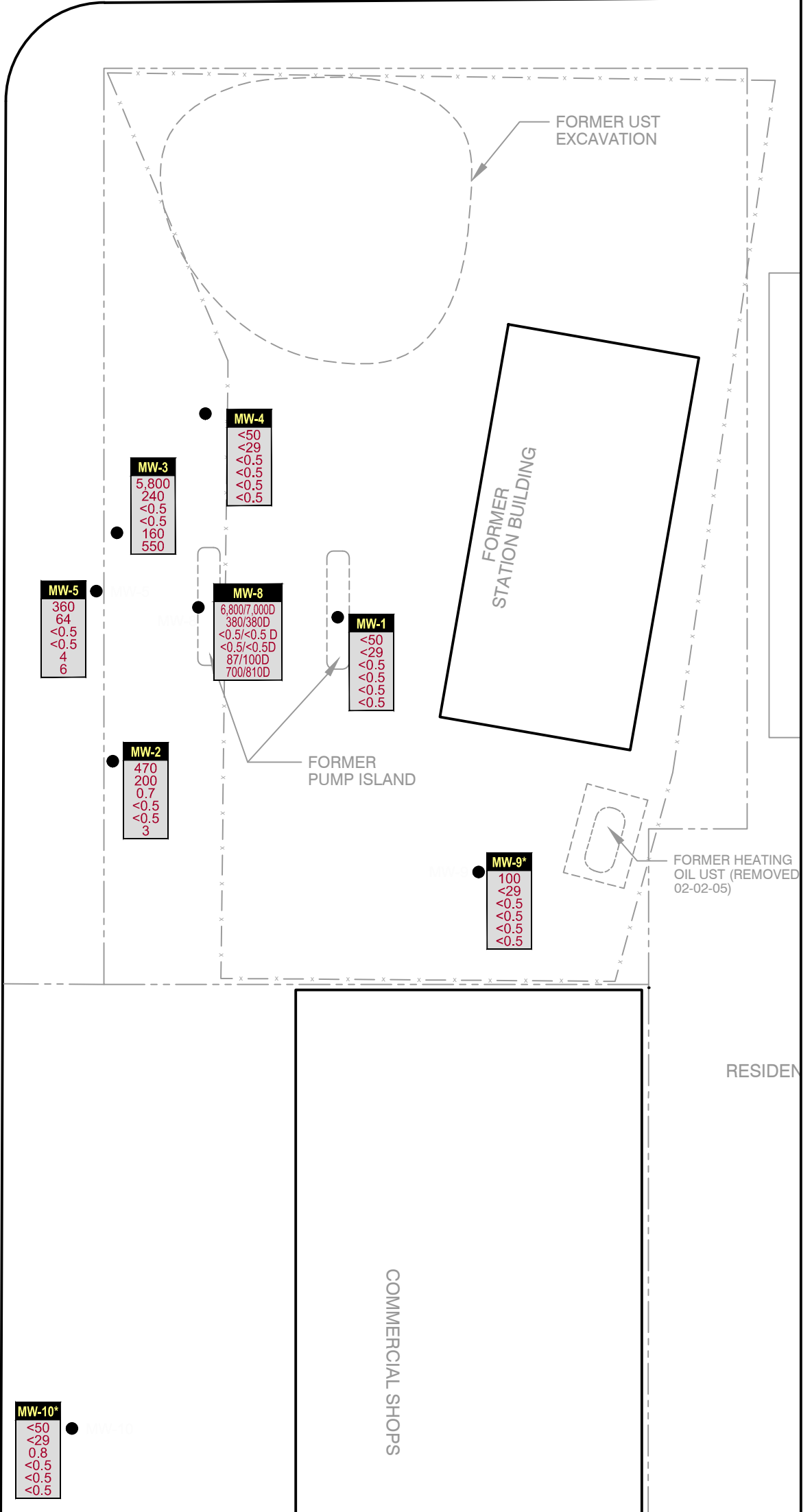
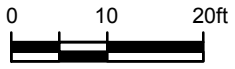


Figure 4

GROUNDWATER CONCENTRATION MAP  
 FORMER TIDEWATER SERVICE STATION  
 PHILLIPS 66 SITE 5173  
 CHEVRON SITE 301233  
 2800 MARTIN LUTHER KING WAY SOUTH  
 Seattle, Washington  
 May 23, 2013



SOUTH McCLELLAN STREET



**LEGEND**

- MW-1 GROUNDWATER MONITORING WELL
- 1,000** ——— TPHg CONCENTRATION CONTOUR IN MICROGRAMS PER LITER (µg/L), DASHED WHERE INFERRED
- WELL**  
**TPHg** WELL DESIGNATION  
TPHg CONCENTRATION (µg/L)
- \* SAMPLED ON 5/24/2013
- D DUPLICATE

MARTIN LUTHER KING WAY

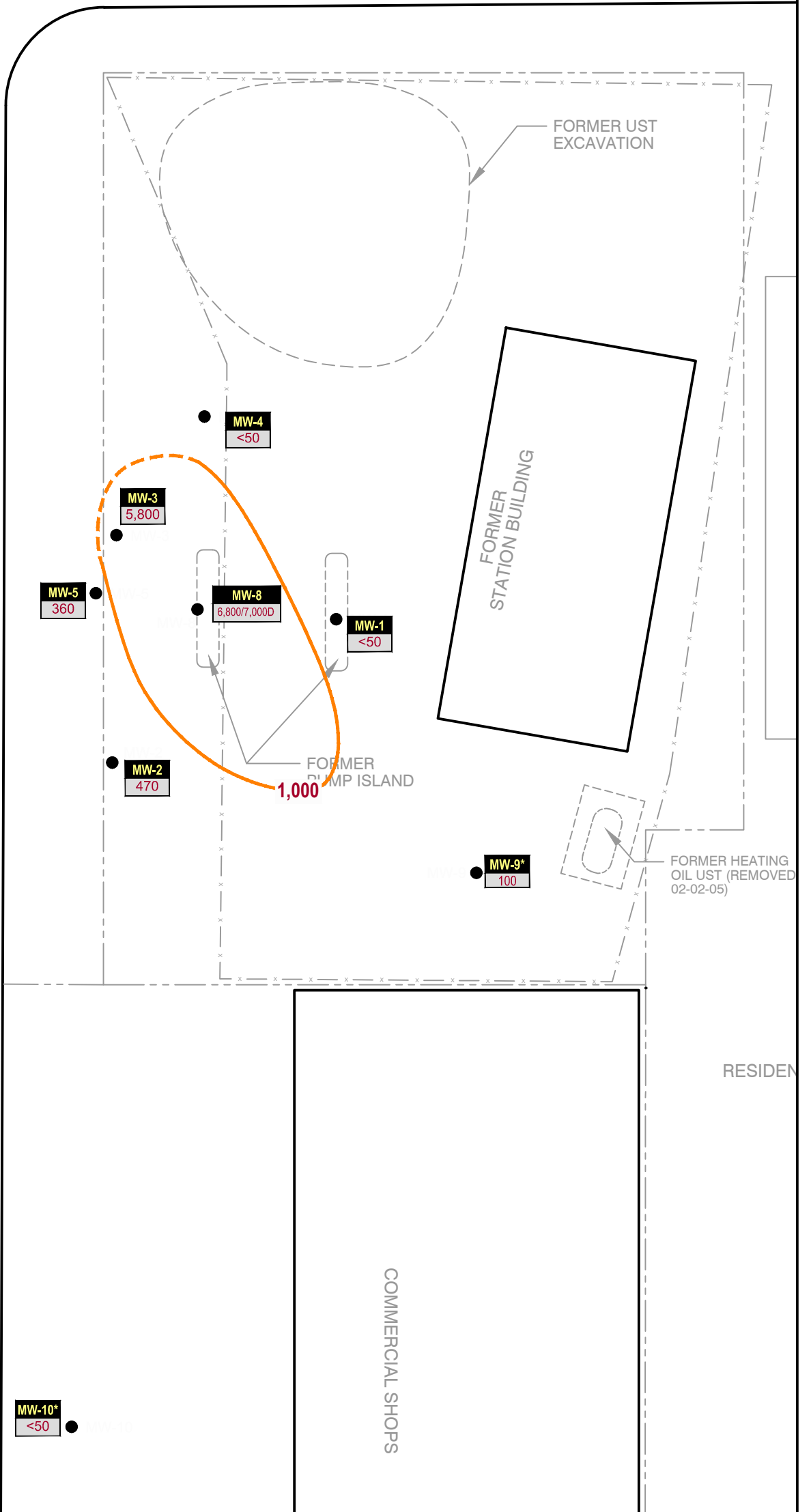
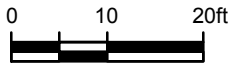


Figure 5

TPHg ISOCONCENTRATION CONTOUR MAP  
 FORMER TIDEWATER SERVICE STATION  
 PHILLIPS 66 SITE 5173  
 CHEVRON SITE 301233  
 2800 MARTIN LUTHER KING WAY SOUTH  
 Seattle, Washington  
 May 23, 2013



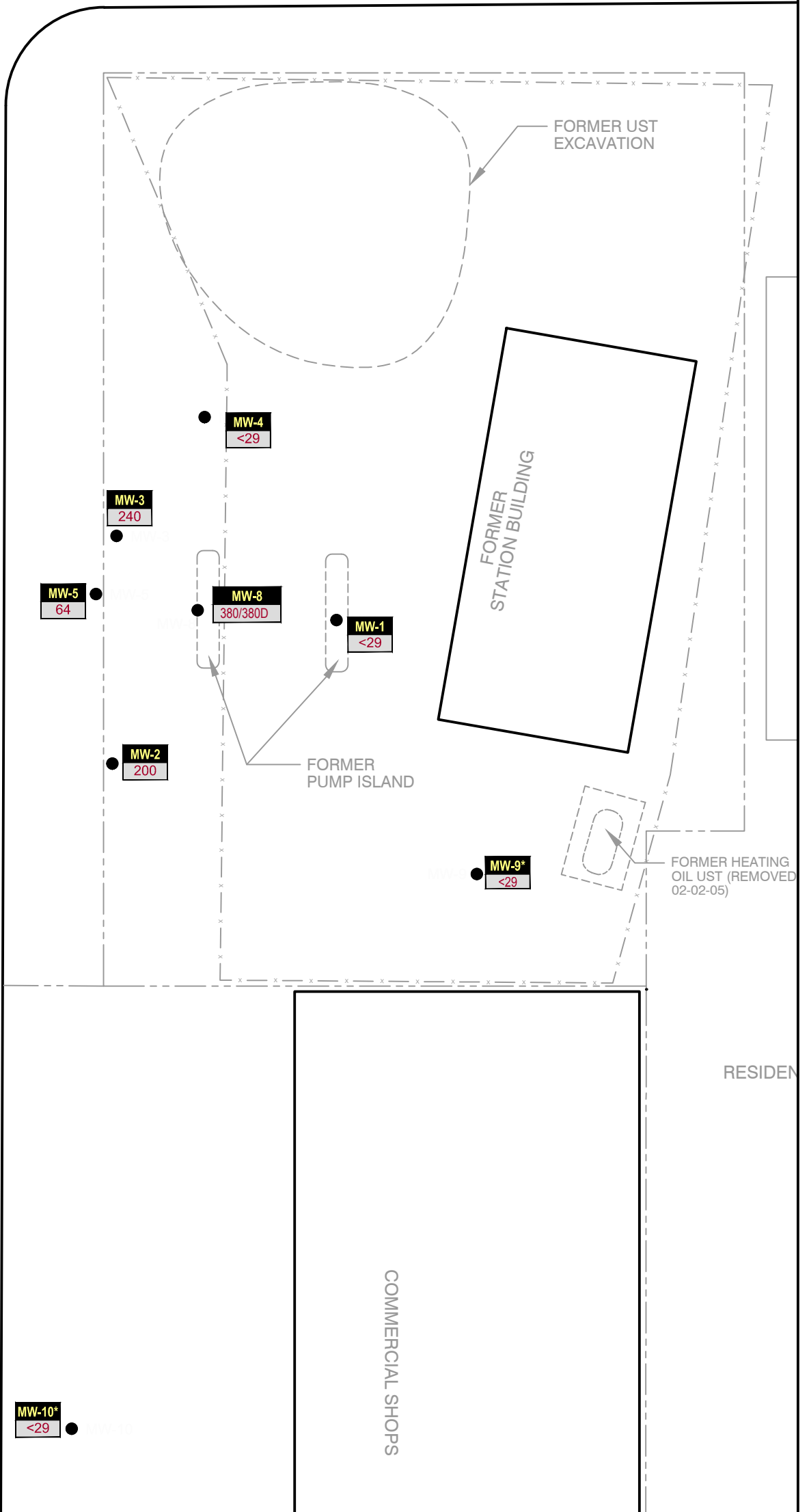
SOUTH McCLELLAN STREET



**LEGEND**

- MW-1 GROUNDWATER MONITORING WELL
- |      |
|------|
| WELL |
| TPHd |

 WELL DESIGNATION  
 TPHd CONCENTRATION (µg/L)
- \* SAMPLED ON 5/24/2013
- D DUPLICATE



MARTIN LUTHER KING WAY

Figure 6

TPHd ISOCONCENTRATION CONTOUR MAP  
 FORMER TIDEWATER SERVICE STATION  
 PHILLIPS 66 SITE 5173  
 CHEVRON SITE 301233  
 2800 MARTIN LUTHER KING WAY SOUTH  
 Seattle, Washington  
 May 23, 2013



## 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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS														
					IPH-GRO	IPH-DRO	IPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitethylbenzene	1,3,5-Trinitethylbenzene	N-Propylbenzene	Isopropylbenzene	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	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 <sup>3</sup>	97.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/15/2011 <sup>3</sup>	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 <sup>4</sup>	<67 <sup>4</sup>	<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 <sup>4</sup>	<69 <sup>4</sup>	<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 <sup>4</sup>	<71 <sup>4</sup>	<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 <sup>4</sup>	<67 <sup>4</sup>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.7	-	
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	-	-	-	-	-	-	-	-	-	-	

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS														
					IPH-GRO	IPH-DRO	IPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	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	µg/L
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 <sup>4</sup>	<67 <sup>4</sup>	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 <sup>4</sup>	<73 <sup>4</sup>	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 <sup>4</sup>	<68 <sup>4</sup>	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	39	19	0.19	-	
MW-2	05/23/2013	60.72	11.15	49.57	470	200 <sup>4</sup>	<66 <sup>4</sup>	0.7	<0.5	<0.5	3	<0.5	<0.5	<0.5	<1	<1	<1	46	21	0.12	-	

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS														
					IPH-GRO	IPH-DRO	IPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitethylbenzene	1,3,5-Trinitethylbenzene	N-Propylbenzene	Isopropylbenzene	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	µg/L	µg/L
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	-	-	-	-	-	-	-	-	-	-	-
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	-



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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS														
					IPH-GRO	IPH-DRO	IPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitethylbenzene	1,3,5-Trinitethylbenzene	N-Propylbenzene	Isopropylbenzene	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	μg/L	μg/L
MW-3	08/07/2012	61.81	11.42	50.39	8,100	290 <sup>4</sup>	<67 <sup>4</sup>	<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 <sup>4</sup>	<69 <sup>4</sup>	<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 <sup>4</sup>	<66 <sup>4</sup>	<0.5	<0.5	190	620	<0.5	<0.5	<0.5	73	1,200	240	130	51	0.70	-	
<b>MW-3</b>	<b>05/23/2013</b>	<b>61.81</b>	<b>11.00</b>	<b>50.81</b>	<b>5,800</b>	<b>240<sup>4</sup></b>	<b>&lt;67<sup>4</sup></b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>160</b>	<b>550</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>82</b>	<b>1,200</b>	<b>170</b>	<b>130</b>	<b>45</b>	<b>2.6</b>	<b>-</b>	
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	<1	-	-
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	<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	<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	1.8	0.007248
MW-4	08/07/2012	62.75	11.76	50.99	<50	<29 <sup>4</sup>	<68 <sup>4</sup>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.34	-
MW-4	12/05/2012	62.75	10.19	52.56	<50	<32 <sup>4</sup>	<75 <sup>4</sup>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	4.0	-
MW-4	02/26/2013	62.75	11.15	51.60	<50	<28 <sup>4</sup>	<66 <sup>4</sup>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	0.16	-
<b>MW-4</b>	<b>05/23/2013</b>	<b>62.75</b>	<b>11.35</b>	<b>51.40</b>	<b>&lt;50</b>	<b>&lt;29<sup>4</sup></b>	<b>&lt;67<sup>4</sup></b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>0.74</b>	<b>-</b>
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	-	-	-	-	-	-	-	-	-	-	-

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS														
					IPH-GRO	IPH-DRO	IPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitethylbenzene	1,3,5-Trinitethylbenzene	N-Propylbenzene	Isopropylbenzene	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	µg/L	µg/L
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	-	-	
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 <sup>4</sup>	<66 <sup>4</sup>	<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 <sup>4</sup>	<76 <sup>4</sup>	<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 <sup>4</sup>	<69 <sup>4</sup>	<0.5	0.6	7	12	<0.5	<0.5	<0.5	25	9	1	42	19	0.76	-	
<b>MW-5</b>	<b>05/23/2013</b>	<b>61.66</b>	<b>10.90</b>	<b>50.76</b>	<b>360</b>	<b>64<sup>4</sup></b>	<b>&lt;67<sup>4</sup></b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>4</b>	<b>6</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>25</b>	<b>4</b>	<b>&lt;1</b>	<b>34</b>	<b>13</b>	<b>0.80</b>	<b>-</b>	
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 <sup>4</sup>	<66 <sup>4</sup>	<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 <sup>4</sup>	<73 <sup>4</sup>	<0.5	<0.5	1	6	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.1	-	

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS														
					TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	N-Propylbenzene	Isopropylbenzene	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	µg/L
MW-6	02/27/2013	58.03	11.77	46.26	<50	<30 <sup>4</sup>	<70 <sup>4</sup>	<0.5	<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 <sup>4</sup>	<70 <sup>4</sup>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.20	-
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	<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	<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	<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	<1	13.8	0.097
MW-7	08/07/2012	56.96	11.70	45.26	<50	<28 <sup>4</sup>	<66 <sup>4</sup>	<0.5	<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 <sup>4</sup>	<67 <sup>4</sup>	<0.5	<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 <sup>4</sup>	<68 <sup>4</sup>	<0.5	<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 <sup>4</sup>	<72 <sup>4</sup>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	1.9	-
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	
MW-8	08/08/2012	61.71	11.30	50.41	9,300	290 <sup>4</sup>	<66 <sup>4</sup>	<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 <sup>4</sup>	<66 <sup>4</sup>	<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 <sup>4</sup>	200 <sup>4</sup>	<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 <sup>4</sup>	240 <sup>4</sup>	<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 <sup>4</sup>	<70 <sup>4</sup>	<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 <sup>4</sup>	<69 <sup>4</sup>	<0.5	0.6	100	770	<0.5	<0.5	<0.5	72	1,100	280	60	29	5.3	-	

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS														
					IPH-GRO	IPH-DRO	IPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitethylbenzene	1,3,5-Trinitethylbenzene	N-Propylbenzene	Isopropylbenzene	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	µg/L
MW-8	05/23/2013	61.71	10.87	50.84	6,800	380 <sup>4</sup>	<68 <sup>4</sup>	<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 <sup>4</sup>	<68 <sup>4</sup>	<0.5	0.5	100	810	<0.5	<0.5	<0.5	94	1,300	240	73	29	3.5	-	
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 <sup>1</sup>	<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 <sup>4</sup>	<67 <sup>4</sup>	<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 <sup>4</sup>	<69 <sup>4</sup>	<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 <sup>5</sup>	62.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-9	05/24/2013	62.58	13.05	49.53	100	<29 <sup>4</sup>	<68 <sup>4</sup>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	0.24	-	
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 <sup>2</sup>	<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 <sup>4</sup>	<68 <sup>4</sup>	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 <sup>4</sup>	<72 <sup>4</sup>	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 <sup>4</sup>	<69 <sup>4</sup>	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 <sup>4</sup>	<67 <sup>4</sup>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.073	-	
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	-	-	

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS														
					TPH-GRO	TPH-DRO	TPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	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	µg/L	µg/L
Trip Blank	12/05/2012	-	-	-	<50	-	-	<0.5	<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	<0.5	<1	<1	<1	<1	<1	-	-
Trip Blank	05/23/2013	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-

**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

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

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS														
					IPH-GRO	IPH-DRO	IPH-HRO	B	T	E	X	EDB	EDC	MTBE	Naphthalene	1,2,4-Trinitheylbenzene	1,3,5-Trinitheylbenzene	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	μg/L	μg/L

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.

ATTACHMENT A

MONITORING DATA PACKAGE









Former Tidewater Site  
Seattle, WA

Water Quality Meter S/N: \_\_\_\_\_

Date: 05/24/13

Location: MW 10  
Name of Sampler: N. Hinsperger  
Weather: clear

Depth to Water: 10.96 Sample Depth: \_\_\_\_\_  
Depth to Bottom: \_\_\_\_\_

QA/QC  
MS/MSD \_\_\_\_\_  
Duplicate \_\_\_\_\_  
Blank \_\_\_\_\_

QA/QC Sample ID  
(GW-mmddyy-AA-XXX)  
\_\_\_\_\_

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials  
x Location ID

GW- 052413-NH-MW 10

Sample Method: LW Flow  
Purge Start: 9:48  
Sample Time: 10:30

1 Well Volume: \_\_\_\_\_  
3 Well Volumes: \_\_\_\_\_

water column height(ft) X  
0.162(2" casing)

Time	pH (+/- 0.1 S.U.)	Cond (mS/cm) 3%	Turb. (NTU)	DO (mg/L) 10%	Temp (C°) 3%	ORP (mV) 10%	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
9:58	6.20	0.217	21.9	0.77	14.76	-118	0.0	1.4		0.100	11.08	CLEAR
10:03	6.23	0.219	31.0	0.31	14.70	-129	0.0	1.4		0.100	11.11	" "
10:08	6.23	0.223	20.6	0.32	14.67	-135	0.0	1.4		0.100	11.16	" "
10:13	6.23	0.229	20.8	0.32	14.59	-138	0.0	1.4		0.100	11.17	" "
10:18	6.23	0.231	21.3	0.31	14.56	-139	0.0	1.4		0.100	11.18	" "

- Analysis:  
**Groundwater**  
GRO  
DRO  
VOCs  
SVOCs  
Total Lead

✓
✓
✓
✓
✓

- Preservative  
HCL  
HCL  
HCL

Signed [Signature]

Notes:  
1 PAH















Former Tidewater Site  
Seattle, WA

Water Quality Meter S/N: 1113788

Date: 05/23/13

Location: MW 4  
Name of Sampler: SR  
Weather: Clear

Depth to Water: 11.35 Sample Depth: \_\_\_\_\_  
Depth to Bottom: \_\_\_\_\_

QA/QC  
MS/MSD \_\_\_\_\_  
Duplicate \_\_\_\_\_  
Blank \_\_\_\_\_

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials  
x Location ID

GW-052313-NH-MW-4

QA/QC Sample ID  
(GW-mmddyy-AA-XXX)

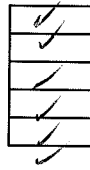
Sample Method: \_\_\_\_\_  
Purge Start: 1115  
Sample Time: 1145

1 Well Volume: \_\_\_\_\_  
3 Well Volumes: \_\_\_\_\_

water column height(ft) X  
0.162(2" casing)

Time	pH (+/- 0.1 S.U.)	Cond (mS/cm) 3%	Turb. (NTU)	DO (mg/L) 10%	Temp (C°) 3%	ORP (mV) 10%	Salinity (%)	TDS (ppm)	Total Volume Removed (gallons)	Flow (ml/min) < 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
1117	5.43	.769	-5.0	2.40	13.56	-156	0.0	.49		.150	1144	
1122	5.64	.770	-5.0	0.00	13.80	-162	0.0	.49		.150	1145	
1127	5.76	.769	-5.0	0.00	14.41	-150	0.0	.49		.150	1144	
1132	5.80	.767	.769	0.00	14.26	-149	0.0	.49		.150	1146	
1137	5.82	.766	.761	0.00	14.32	-149	0.0	.49		.150	1145	
1145												
												Sample
											1146	Following Sampling

Analysis:  
**Groundwater**  
GRO  
DRO  
VOCs  
SVOCs  
Total Lead



Preservative  
HCL  
HCL  
HCL

Signed \_\_\_\_\_

Notes:  
\_\_\_\_\_





**Field Calibration Sheet: HORIBA U-20XD series Multimeter**  
 pH, Conductivity, Turbidity, Dissolved Oxygen, Temperature, Salinity, Total Dissolved Solids, and ORP

DATE		TIME	
PROJECT NAME			
PROJECT #	PHASE	TASK	
Unit Control #			

PAGE \_\_\_\_ of \_\_\_\_

**Auto Calibration**

- 1 Place some of the pH 4 standard AutoCal solution into the calibration cup.
- 2 Wash the sensors in distilled water several times
- 3 Immerse the sensors into the solution and wait several minutes for the reading to stabilize.
- 4 Press the CAL button once while in the pH measurement mode. Look for the AUTO and CAL functions to appear in the LCD display
- 5 Press ENT to start the auto calibration. The sensors must remain within the calibration solution during this time.  
The auto cal process is complete when END is displayed
- 6 Press MEAS to return to measurement mode
- 7 Cycle through the 5 parameters being calibrated and record the readings in the following table:
- 8 Repeat as necessary

AUTO 4 CALIBRATION					
Time	pH	Cond	Turb	DO	Temp
	3.83	0.450	1.9	10.06	17.72

**Manual 2 point pH calibration**

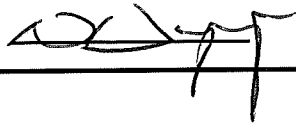
- 1 After the AutoCal procedure, rinse the sensors with distilled water several times.
- 2 Place pH 7.0 buffer solution into another calibration cup. If only one calibration cup is available, completely wash the cup with distilled water several times.
- 3 Immerse the sensor into the solution and wait several minutes for the reading to stabilize.
- 4 Press the CAL button twice while in the pH measurement mode. Look for the MAN, ZERO and CAL functions to appear in the LCD display
- 5 Use the UP/DOWN keys to adjust the pH value for temperature variations using the table at the end of this sheet
- 6 Press the ENT key to start the calibration. The measured value and the DATA IN will blink until the calibration finishes.
- 7 When the values stop flashing record the pH reading being displayed.
- 8 Remove the sensors and rinse several times with distilled water.
- 9 Place pH 10.0 buffer solution into another calibration cup. If only one calibration cup is available, completely wash the cup with distilled water several times.
- 10 Immerse the sensors into the solution and wait several minutes for the reading to stabilize.
- 11 Press the CAL button once. Look for the MAN, SPAN and CAL functions to appear in the LCD display
- 12 Use the UP/DOWN keys to adjust the pH value for temperature variations using the table at the end of this sheet
- 13 Press the ENT key to start the calibration. The measured value and the DATA IN will blink until the calibration finishes.
- 14 When the values stop flashing record the pH reading being displayed.
- 15 Press the MEAS button to return to the measurement mode.

Temperature Celsius	pH 4 Phthalate	pH 7 N. phosphat	pH 9 Borate	pH 10
0	4.01	6.98	9.46	
5	4.01	6.95	9.39	
10	4.00	6.92	9.33	10.18
15	4.00	6.90	9.27	10.14
20	4.00	6.88	9.22	10.06
25	4.01	6.86	9.18	10.00
30	4.01	6.85	9.14	9.95
35	4.02	6.84	9.10	9.91
40	4.03	6.84	9.07	9.85
45	4.04	6.84	9.04	

MANUAL CALIBRATION				
Time	pH 7	pH 9	pH 10	Temp

**Midday and as needed calibration check record**

Time	Temperature	pH 4	pH 7	pH 9	pH 10	Initials

SIGNATURE  NAME N. Hinsperger DATE 05/23/13

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

## ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

Conestoga-Rovers & Associates  
Suite 190  
20818 44th Ave W  
Lynnwood WA 98036

June 12, 2013

Project: 301233 Tidewater Seattle

Submittal Date: 05/25/2013

Group Number: 1392664

PO Number: 4058681

State of Sample Origin: WA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
GW-052313-NH-MW4 Grab Groundwater	7071406
GW-052313-NH-MW3 Grab Groundwater	7071407
GW-052313-NH-MW1 Grab Groundwater	7071408
GW-052313-NH-MW8 Grab Groundwater	7071409
GW-052313-NH-FD1 Grab Groundwater	7071410
GW-052313-NH-MW2 Grab Groundwater	7071411
GW-052313-NH-MW5 Grab Groundwater	7071412
GW-052413-NH-MW9 Grab Groundwater	7071413
GW-052413-NH-MW9 MS Grab Groundwater	7071414
GW-052413-NH-MW9 MSD Grab Groundwater	7071415
GW-052413-NH-MW10 Grab Groundwater	7071417
GW-052413-NH-MW7 Grab Groundwater	7071418
GW-052413-NH-MW6 Grab Groundwater	7071419
TRIP BLANK Water	7071420

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

ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: Haroon Rahmani
ELECTRONIC COPY TO	CRA	Attn: Edwin Turner
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: Jeffrey Cloud
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: Matt Davis
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact



COPY TO

Respectfully Submitted,



Jill M. Parker  
Senior Specialist

(717) 556-7262

Sample Description: GW-052313-NH-MW4 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071406  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 11:45 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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.	1	1

Sample Description: **GW-052313-NH-MW4 Grab Groundwater**  
**MLK Tidewater Site**  
**2800 Martin Luther King Jr Way - Seattle, WA**

LLI Sample # **WW 7071406**  
 LLI Group # **1392664**  
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 05/23/2013 11:45 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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.	1	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
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>ug/l</b>	<b>ug/l</b>	
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.	0.030	1
<b>GC Volatiles ECY 97-602 NWT PH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWT PH-Gx water C7-C12	n.a.	N.D.	50	1
<b>GC Petroleum ECY 97-602 NWT PH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
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
<b>Metals SW-846 6020</b>			<b>ug/l</b>	<b>ug/l</b>	
06035	Lead	7439-92-1	0.74	0.073	1

### General Sample Comments

State of Washington Lab Certification No. C259  
 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.

Sample Description: GW-052313-NH-MW4 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071406  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 11:45 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW4

### 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	Y131492AA	05/30/2013 00:14	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 00:14	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 01:55	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13149WAB026	05/29/2013 16:00	David S Schrum	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/06/2013 20:54	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/06/2013 20:54	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131500021A	06/07/2013 10:54	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131500021A	05/31/2013 09:00	Olivia Arosemena	1
06035	Lead	SW-846 6020	1	131546050002A	06/05/2013 04:16	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131546050002	06/04/2013 12:00	James L Mertz	1

Sample Description: GW-052313-NH-MW3 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071407  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 15:20 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	4	3	1
10335	n-Butylbenzene	104-51-8	14	1	1
10335	sec-Butylbenzene	135-98-8	11	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	6	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	160	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	45	1	1
10335	p-Isopropyltoluene	99-87-6	5	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	82	1	1
10335	n-Propylbenzene	103-65-1	130	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: **GW-052313-NH-MW3 Grab Groundwater**  
**MLK Tidewater Site**  
**2800 Martin Luther King Jr Way - Seattle, WA**

LLI Sample # **WW 7071407**  
 LLI Group # **1392664**  
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 05/23/2013 15:20 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	1,200	10	10
10335	1,3,5-Trimethylbenzene	108-67-8	170	1	1
10335	Vinyl Chloride	75-01-4	2	1	1
10335	m+p-Xylene	179601-23-1	500	0.5	1
10335	o-Xylene	95-47-6	42	0.5	1
10335	Xylene (Total)	1330-20-7	550	0.5	1
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>ug/l</b>	<b>ug/l</b>	
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	8.5	0.011	1
08357	2-Methylnaphthalene	91-57-6	10	0.011	1
08357	Naphthalene	91-20-3	46	0.32	10
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	5,800	250	5
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	240	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
<b>Metals SW-846 6020</b>			<b>ug/l</b>	<b>ug/l</b>	
06035	Lead	7439-92-1	2.6	0.073	1

### General Sample Comments

State of Washington Lab Certification No. C259  
 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.

Sample Description: GW-052313-NH-MW3 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071407  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 15:20 by NH

Conestoga-Rovers & Associates

Submitted: 05/25/2013 09:15

Suite 190

Reported: 06/12/2013 16:06

20818 44th Ave W

Lynnwood WA 98036

TSMW3

### 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	Y131492AA	05/30/2013 00:35	Christopher G Torres	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	Y131492AA	05/30/2013 00:56	Christopher G Torres	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 00:35	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131492AA	05/30/2013 00:56	Christopher G Torres	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 02:23	Holly Berry	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 13:46	Chad A Moline	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13149WAB026	05/29/2013 16:00	David S Schrum	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/06/2013 22:36	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/06/2013 22:36	Catherine J Schwarz	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131500021A	06/07/2013 11:16	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131500021A	05/31/2013 09:00	Olivia Arosemena	1
06035	Lead	SW-846 6020	1	131546050002A	06/05/2013 04:18	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131546050002	06/04/2013 12:00	James L Mertz	1

Sample Description: GW-052313-NH-MW1 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071408  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 10:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	23	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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.	1	1



Sample Description: **GW-052313-NH-MW1 Grab Groundwater**  
**MLK Tidewater Site**  
**2800 Martin Luther King Jr Way - Seattle, WA**

LLI Sample # **WW 7071408**  
 LLI Group # **1392664**  
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 05/23/2013 10:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	10	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	9	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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.	1	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
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>ug/l</b>	<b>ug/l</b>	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	1
08357	Chrysene	218-01-9	N.D.	0.012	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	1
08357	Naphthalene	91-20-3	N.D.	0.035	1
<b>GC Volatiles ECY 97-602 NWT PH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWT PH-Gx water C7-C12	n.a.	N.D.	50	1
<b>GC Petroleum ECY 97-602 NWT PH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
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
<b>Metals SW-846 6020</b>			<b>ug/l</b>	<b>ug/l</b>	
06035	Lead	7439-92-1	1.7	0.073	1

### General Sample Comments

State of Washington Lab Certification No. C259  
 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.

Sample Description: GW-052313-NH-MW1 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071408  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 10:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW1

### 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	Y131492AA	05/30/2013 01:17	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 01:17	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 02:50	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13149WAB026	05/29/2013 16:00	David S Schrum	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/06/2013 21:19	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/06/2013 21:19	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131500021A	06/07/2013 11:38	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131500021A	05/31/2013 09:00	Olivia Arosemena	1
06035	Lead	SW-846 6020	1	131546050002A	06/05/2013 04:23	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131546050002	06/04/2013 12:00	James L Mertz	1

Sample Description: GW-052313-NH-MW8 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071409  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 12:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	15	1	1
10335	sec-Butylbenzene	135-98-8	10	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	87	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	25	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	86	1	1
10335	n-Propylbenzene	103-65-1	62	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: **GW-052313-NH-MW8 Grab Groundwater**  
**MLK Tidewater Site**  
**2800 Martin Luther King Jr Way - Seattle, WA**

LLI Sample # **WW 7071409**  
 LLI Group # **1392664**  
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 05/23/2013 12:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	1,200	10	10
10335	1,3,5-Trimethylbenzene	108-67-8	190	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	550	0.5	1
10335	o-Xylene	95-47-6	150	0.5	1
10335	Xylene (Total)	1330-20-7	700	0.5	1
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>ug/l</b>	<b>ug/l</b>	
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	18	0.21	20
08357	2-Methylnaphthalene	91-57-6	26	0.21	20
08357	Naphthalene	91-20-3	55	0.64	20
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	6,800	250	5
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	380	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
<b>Metals SW-846 6020</b>			<b>ug/l</b>	<b>ug/l</b>	
06035	Lead	7439-92-1	4.0	0.073	1

### General Sample Comments

State of Washington Lab Certification No. C259  
 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.

Sample Description: GW-052313-NH-MW8 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071409  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 12:30 by NH

Conestoga-Rovers & Associates

Submitted: 05/25/2013 09:15

Suite 190

Reported: 06/12/2013 16:06

20818 44th Ave W

Lynnwood WA 98036

TSMW8

### 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	Y131492AA	05/30/2013 01:38	Christopher G Torres	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	Y131492AA	05/30/2013 01:59	Christopher G Torres	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 01:38	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131492AA	05/30/2013 01:59	Christopher G Torres	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 03:18	Holly Berry	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 14:14	Chad A Moline	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13149WAB026	05/29/2013 16:00	David S Schrum	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/06/2013 23:02	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/06/2013 23:02	Catherine J Schwarz	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131500021A	06/07/2013 12:01	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131500021A	05/31/2013 09:00	Olivia Arosemena	1
06035	Lead	SW-846 6020	1	131546050002A	06/05/2013 04:25	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131546050002	06/04/2013 12:00	James L Mertz	1

Sample Description: GW-052313-NH-FD1 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071410  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 by NH

Conestoga-Rovers & Associates

Submitted: 05/25/2013 09:15

Suite 190

Reported: 06/12/2013 16:06

20818 44th Ave W

Lynnwood WA 98036

TSFD1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	17	1	1
10335	sec-Butylbenzene	135-98-8	11	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	100	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	29	1	1
10335	p-Isopropyltoluene	99-87-6	8	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	94	1	1
10335	n-Propylbenzene	103-65-1	73	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-052313-NH-FD1 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071410  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 by NH

Conestoga-Rovers & Associates

Submitted: 05/25/2013 09:15

Suite 190

Reported: 06/12/2013 16:06

20818 44th Ave W

Lynnwood WA 98036

TSFD1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	0.5	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	1,300	10	10
10335	1,3,5-Trimethylbenzene	108-67-8	240	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	650	5	10
10335	o-Xylene	95-47-6	170	0.5	1
10335	Xylene (Total)	1330-20-7	810	5	10
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>ug/l</b>	<b>ug/l</b>	
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	16	0.20	20
08357	2-Methylnaphthalene	91-57-6	23	0.20	20
08357	Naphthalene	91-20-3	48	0.61	20
<b>GC Volatiles ECY 97-602 NWT PH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWT PH-Gx water C7-C12	n.a.	7,000	250	5
<b>GC Petroleum ECY 97-602 NWT PH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	380	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
<b>Metals SW-846 6020</b>			<b>ug/l</b>	<b>ug/l</b>	
06035	Lead	7439-92-1	3.5	0.073	1

### General Sample Comments

State of Washington Lab Certification No. C259  
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.

Sample Description: GW-052313-NH-FD1 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071410  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 by NH

Conestoga-Rovers & Associates

Submitted: 05/25/2013 09:15

Suite 190

Reported: 06/12/2013 16:06

20818 44th Ave W

Lynnwood WA 98036

TSFD1

### 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	Y131492AA	05/30/2013 02:20	Christopher G Torres	1
10335	8260 Solvent Compound - Water	SW-846 8260B	1	Y131492AA	05/30/2013 02:41	Christopher G Torres	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 02:20	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131492AA	05/30/2013 02:41	Christopher G Torres	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 03:45	Holly Berry	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 14:41	Chad A Moline	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13149WAB026	05/29/2013 16:00	David S Schrum	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/06/2013 23:27	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/06/2013 23:27	Catherine J Schwarz	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131500021A	06/07/2013 12:23	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131500021A	05/31/2013 09:00	Olivia Arosemena	1
06035	Lead	SW-846 6020	1	131546050002A	06/05/2013 04:26	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131546050002	06/04/2013 12:00	James L Mertz	1



Sample Description: GW-052313-NH-MW2 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071411  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 14:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	0.7	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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	4	1	1
10335	sec-Butylbenzene	135-98-8	5	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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	21	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	46	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: **GW-052313-NH-MW2 Grab Groundwater**  
**MLK Tidewater Site**  
**2800 Martin Luther King Jr Way - Seattle, WA**

LLI Sample # **WW 7071411**  
 LLI Group # **1392664**  
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 05/23/2013 14:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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.	1	1
10335	m+p-Xylene	179601-23-1	3	0.5	1
10335	o-Xylene	95-47-6	0.5	0.5	1
10335	Xylene (Total)	1330-20-7	3	0.5	1
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>ug/l</b>	<b>ug/l</b>	
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	0.20	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
<b>GC Volatiles ECY 97-602 NWT PH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWT PH-Gx water C7-C12	n.a.	470	50	1
<b>GC Petroleum ECY 97-602 NWT PH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	200	28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
<b>Metals SW-846 6020</b>			<b>ug/l</b>	<b>ug/l</b>	
06035	Lead	7439-92-1	0.12	0.073	1

### General Sample Comments

State of Washington Lab Certification No. C259  
 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.

Sample Description: GW-052313-NH-MW2 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071411  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 14:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW2

### 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	Y131492AA	05/30/2013 03:02	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 03:02	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 04:13	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13149WAB026	05/29/2013 16:00	David S Schrum	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/06/2013 21:45	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/06/2013 21:45	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131500021A	06/07/2013 12:46	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131500021A	05/31/2013 09:00	Olivia Arosemena	1
06035	Lead	SW-846 6020	1	131546050002A	06/05/2013 04:28	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131546050002	06/04/2013 12:00	James L Mertz	1

Sample Description: GW-052313-NH-MW5 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071412  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 16:00 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	2	1	1
10335	sec-Butylbenzene	135-98-8	2	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	4	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	13	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	25	1	1
10335	n-Propylbenzene	103-65-1	34	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: **GW-052313-NH-MW5 Grab Groundwater**  
**MLK Tidewater Site**  
**2800 Martin Luther King Jr Way - Seattle, WA**

LLI Sample # **WW 7071412**  
 LLI Group # **1392664**  
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 05/23/2013 16:00 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	4	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	6	0.5	1
10335	o-Xylene	95-47-6	0.8	0.5	1
10335	Xylene (Total)	1330-20-7	6	0.5	1
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>ug/l</b>	<b>ug/l</b>	
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	3.7	0.011	1
08357	2-Methylnaphthalene	91-57-6	2.3	0.011	1
08357	Naphthalene	91-20-3	20	0.32	10
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	360	50	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	64	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
<b>Metals SW-846 6020</b>			<b>ug/l</b>	<b>ug/l</b>	
06035	Lead	7439-92-1	0.80	0.073	1

### General Sample Comments

State of Washington Lab Certification No. C259  
 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.

Sample Description: GW-052313-NH-MW5 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071412  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013 16:00 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW5

### 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	Y131492AA	05/30/2013 03:22	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 03:22	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 04:40	Holly Berry	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 15:09	Chad A Moline	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13149WAB026	05/29/2013 16:00	David S Schrum	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/06/2013 22:11	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/06/2013 22:11	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131500021A	06/07/2013 13:08	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131500021A	05/31/2013 09:00	Olivia Arosemena	1
06035	Lead	SW-846 6020	1	131546050002A	06/05/2013 04:30	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131546050002	06/04/2013 12:00	James L Mertz	1

Sample Description: GW-052413-NH-MW9 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071413  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/24/2013 09:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	1	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	140	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	1	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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.	1	1

Sample Description: **GW-052413-NH-MW9 Grab Groundwater**  
**MLK Tidewater Site**  
**2800 Martin Luther King Jr Way - Seattle, WA**

LLI Sample # **WW 7071413**  
 LLI Group # **1392664**  
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 05/24/2013 09:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	180	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	120	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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	11	1	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
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>ug/l</b>	<b>ug/l</b>	
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	0.012	0.011	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
08357	Naphthalene	91-20-3	N.D.	0.032	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	100	50	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
<b>Metals SW-846 6020</b>			<b>ug/l</b>	<b>ug/l</b>	
06035	Lead	7439-92-1	0.24	0.073	1

### General Sample Comments

State of Washington Lab Certification No. C259  
 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.



Sample Description: GW-052413-NH-MW9 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071413  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/24/2013 09:30 by NH

Conestoga-Rovers & Associates

Submitted: 05/25/2013 09:15

Suite 190

Reported: 06/12/2013 16:06

20818 44th Ave W

Lynnwood WA 98036

TSMW9

### 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	Y131492AA	05/30/2013 03:43	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 03:43	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 05:08	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13149WAB026	05/29/2013 16:00	David S Schrum	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/06/2013 17:54	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/06/2013 17:54	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131500021A	06/07/2013 13:31	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131500021A	05/31/2013 09:00	Olivia Arosemena	1
06035	Lead	SW-846 6020	1	131546050002A	06/05/2013 04:06	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131546050002	06/04/2013 12:00	James L Mertz	1

Sample Description: GW-052413-NH-MW9 MS Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071414  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/24/2013 09:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
10335	Acetone	67-64-1	120	6	1
10335	Benzene	71-43-2	16	0.5	1
10335	Bromobenzene	108-86-1	16	1	1
10335	Bromochloromethane	74-97-5	17	1	1
10335	Bromodichloromethane	75-27-4	15	1	1
10335	Bromoform	75-25-2	12	1	1
10335	Bromomethane	74-83-9	16	1	1
10335	2-Butanone	78-93-3	110	3	1
10335	n-Butylbenzene	104-51-8	18	1	1
10335	sec-Butylbenzene	135-98-8	17	1	1
10335	tert-Butylbenzene	98-06-6	16	1	1
10335	Carbon Disulfide	75-15-0	19	1	1
10335	Carbon Tetrachloride	56-23-5	15	1	1
10335	Chlorobenzene	108-90-7	15	0.8	1
10335	Chloroethane	75-00-3	17	1	1
10335	Chloroform	67-66-3	16	0.8	1
10335	Chloromethane	74-87-3	19	1	1
10335	2-Chlorotoluene	95-49-8	16	1	1
10335	4-Chlorotoluene	106-43-4	16	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	15	2	1
10335	Dibromochloromethane	124-48-1	14	1	1
10335	1,2-Dibromoethane	106-93-4	15	0.5	1
10335	Dibromomethane	74-95-3	15	1	1
10335	1,2-Dichlorobenzene	95-50-1	16	1	1
10335	1,3-Dichlorobenzene	541-73-1	16	1	1
10335	1,4-Dichlorobenzene	106-46-7	16	1	1
10335	Dichlorodifluoromethane	75-71-8	17	2	1
10335	1,1-Dichloroethane	75-34-3	16	1	1
10335	1,2-Dichloroethane	107-06-2	16	0.5	1
10335	1,1-Dichloroethene	75-35-4	19	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	150	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	18	0.8	1
10335	1,2-Dichloropropane	78-87-5	16	1	1
10335	1,3-Dichloropropane	142-28-9	15	1	1
10335	2,2-Dichloropropane	594-20-7	16	1	1
10335	1,1-Dichloropropene	563-58-6	16	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	14	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	13	1	1
10335	Ethylbenzene	100-41-4	15	0.5	1
10335	Hexachlorobutadiene	87-68-3	18	2	1
10335	2-Hexanone	591-78-6	68	3	1
10335	Isopropylbenzene	98-82-8	15	1	1
10335	p-Isopropyltoluene	99-87-6	17	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	15	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	68	3	1
10335	Methylene Chloride	75-09-2	17	2	1
10335	Naphthalene	91-20-3	17	1	1
10335	n-Propylbenzene	103-65-1	17	1	1
10335	Styrene	100-42-5	15	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	15	1	1

Sample Description: **GW-052413-NH-MW9 MS Grab Groundwater**  
**MLK Tidewater Site**  
**2800 Martin Luther King Jr Way - Seattle, WA**

LLI Sample # **WW 7071414**  
 LLI Group # **1392664**  
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 05/24/2013 09:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	16	1	1
10335	Tetrachloroethene	127-18-4	190	0.8	1
10335	Toluene	108-88-3	15	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	17	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	17	1	1
10335	1,1,1-Trichloroethane	71-55-6	14	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	15	0.8	1
10335	Trichloroethene	79-01-6	130	1	1
10335	Trichlorofluoromethane	75-69-4	19	2	1
10335	1,2,3-Trichloropropane	96-18-4	15	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	16	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	17	1	1
10335	Vinyl Chloride	75-01-4	28	1	1
10335	m+p-Xylene	179601-23-1	31	0.5	1
10335	o-Xylene	95-47-6	15	0.5	1
10335	Xylene (Total)	1330-20-7	46	0.5	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	1,100	50	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	1,300	31	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	72	1

### General Sample Comments

State of Washington Lab Certification No. C259

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	Y131492AA	05/30/2013 04:04	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 04:04	Christopher G Torres	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/06/2013 18:19	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/06/2013 18:19	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131500021A	06/07/2013 07:28	Christine E Dolman	1

Sample Description: GW-052413-NH-MW9 MS Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071414  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/24/2013 09:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW9

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131500021A	05/31/2013 09:00	Olivia Arosemena	1

Sample Description: GW-052413-NH-MW9 MSD Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071415  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/24/2013 09:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
10335	Acetone	67-64-1	130	6	1
10335	Benzene	71-43-2	17	0.5	1
10335	Bromobenzene	108-86-1	17	1	1
10335	Bromochloromethane	74-97-5	17	1	1
10335	Bromodichloromethane	75-27-4	16	1	1
10335	Bromoform	75-25-2	14	1	1
10335	Bromomethane	74-83-9	18	1	1
10335	2-Butanone	78-93-3	120	3	1
10335	n-Butylbenzene	104-51-8	19	1	1
10335	sec-Butylbenzene	135-98-8	19	1	1
10335	tert-Butylbenzene	98-06-6	18	1	1
10335	Carbon Disulfide	75-15-0	21	1	1
10335	Carbon Tetrachloride	56-23-5	17	1	1
10335	Chlorobenzene	108-90-7	17	0.8	1
10335	Chloroethane	75-00-3	19	1	1
10335	Chloroform	67-66-3	17	0.8	1
10335	Chloromethane	74-87-3	20	1	1
10335	2-Chlorotoluene	95-49-8	17	1	1
10335	4-Chlorotoluene	106-43-4	17	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	17	2	1
10335	Dibromochloromethane	124-48-1	15	1	1
10335	1,2-Dibromoethane	106-93-4	16	0.5	1
10335	Dibromomethane	74-95-3	16	1	1
10335	1,2-Dichlorobenzene	95-50-1	18	1	1
10335	1,3-Dichlorobenzene	541-73-1	18	1	1
10335	1,4-Dichlorobenzene	106-46-7	17	1	1
10335	Dichlorodifluoromethane	75-71-8	19	2	1
10335	1,1-Dichloroethane	75-34-3	18	1	1
10335	1,2-Dichloroethane	107-06-2	17	0.5	1
10335	1,1-Dichloroethene	75-35-4	20	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	150	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	19	0.8	1
10335	1,2-Dichloropropane	78-87-5	17	1	1
10335	1,3-Dichloropropane	142-28-9	16	1	1
10335	2,2-Dichloropropane	594-20-7	17	1	1
10335	1,1-Dichloropropene	563-58-6	17	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	15	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	14	1	1
10335	Ethylbenzene	100-41-4	17	0.5	1
10335	Hexachlorobutadiene	87-68-3	19	2	1
10335	2-Hexanone	591-78-6	74	3	1
10335	Isopropylbenzene	98-82-8	17	1	1
10335	p-Isopropyltoluene	99-87-6	18	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	16	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	74	3	1
10335	Methylene Chloride	75-09-2	18	2	1
10335	Naphthalene	91-20-3	18	1	1
10335	n-Propylbenzene	103-65-1	19	1	1
10335	Styrene	100-42-5	16	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	16	1	1

Sample Description: GW-052413-NH-MW9 MSD Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071415  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/24/2013 09:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	17	1	1
10335	Tetrachloroethene	127-18-4	190	0.8	1
10335	Toluene	108-88-3	17	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	19	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	18	1	1
10335	1,1,1-Trichloroethane	71-55-6	15	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	17	0.8	1
10335	Trichloroethene	79-01-6	130	1	1
10335	Trichlorofluoromethane	75-69-4	21	2	1
10335	1,2,3-Trichloropropane	96-18-4	16	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	18	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	18	1	1
10335	Vinyl Chloride	75-01-4	30	1	1
10335	m+p-Xylene	179601-23-1	34	0.5	1
10335	o-Xylene	95-47-6	16	0.5	1
10335	Xylene (Total)	1330-20-7	50	0.5	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	1,100	50	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	1,300	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	1

### General Sample Comments

State of Washington Lab Certification No. C259

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	Y131492AA	05/30/2013 04:25	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 04:25	Christopher G Torres	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/06/2013 18:45	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/06/2013 18:45	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131500021A	06/07/2013 07:53	Christine E Dolman	1

Sample Description: GW-052413-NH-MW9 MSD Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071415  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/24/2013 09:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW9

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131500021A	05/31/2013 09:00	Olivia Arosemena	1

Sample Description: GW-052413-NH-MW10 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071417  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/24/2013 10:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSM10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	10	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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.	1	1



Sample Description: **GW-052413-NH-MW10 Grab Groundwater**  
**MLK Tidewater Site**  
**2800 Martin Luther King Jr Way - Seattle, WA**

LLI Sample # **WW 7071417**  
 LLI Group # **1392664**  
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 05/24/2013 10:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSM10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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	37	1	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
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>ug/l</b>	<b>ug/l</b>	
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	0.031	0.011	1
08357	2-Methylnaphthalene	91-57-6	0.017	0.011	1
08357	Naphthalene	91-20-3	N.D.	0.032	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
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
<b>Metals SW-846 6020</b>			<b>ug/l</b>	<b>ug/l</b>	
06035	Lead	7439-92-1	N.D.	0.073	1

### General Sample Comments

State of Washington Lab Certification No. C259  
 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.

Sample Description: GW-052413-NH-MW10 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071417  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/24/2013 10:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSM10

### 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	Y131492AA	05/30/2013 04:46	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 04:46	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 15:36	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13149WAB026	05/29/2013 16:00	David S Schrum	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/07/2013 00:19	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/07/2013 00:19	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131500021A	06/07/2013 13:53	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131500021A	05/31/2013 09:00	Olivia Arosemena	1
06035	Lead	SW-846 6020	1	131546050002A	06/05/2013 04:31	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131546050002	06/04/2013 12:00	James L Mertz	1

Sample Description: GW-052413-NH-MW7 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071418  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/24/2013 11:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	7	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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.	1	1

Sample Description: **GW-052413-NH-MW7 Grab Groundwater**  
**MLK Tidewater Site**  
**2800 Martin Luther King Jr Way - Seattle, WA**

LLI Sample # **WW 7071418**  
 LLI Group # **1392664**  
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 05/24/2013 11:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	2	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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	1	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
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>ug/l</b>	<b>ug/l</b>	
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
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	31	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	72	1
<b>Metals SW-846 6020</b>			<b>ug/l</b>	<b>ug/l</b>	
06035	Lead	7439-92-1	1.9	0.073	1

### General Sample Comments

State of Washington Lab Certification No. C259  
 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.

Sample Description: GW-052413-NH-MW7 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071418  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/24/2013 11:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW7

### 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	Y131492AA	05/30/2013 05:07	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 05:07	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 16:04	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13149WAB026	05/29/2013 16:00	David S Schrum	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/07/2013 00:45	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/07/2013 00:45	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131510012A	06/07/2013 01:06	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131510012A	06/01/2013 06:35	Roman Kuropatkin	1
06035	Lead	SW-846 6020	1	131546050002A	06/05/2013 04:33	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131546050002	06/04/2013 12:00	James L Mertz	1

Sample Description: **GW-052413-NH-MW6 Grab Groundwater**  
**MLK Tidewater Site**  
**2800 Martin Luther King Jr Way - Seattle, WA**

LLI Sample # **WW 7071419**  
 LLI Group # **1392664**  
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 05/24/2013 12:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	
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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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.	1	1

Sample Description: **GW-052413-NH-MW6 Grab Groundwater**  
**MLK Tidewater Site**  
**2800 Martin Luther King Jr Way - Seattle, WA**

LLI Sample # **WW 7071419**  
 LLI Group # **1392664**  
 Account # **13534**

Project Name: **301233 Tidewater Seattle**

Collected: 05/24/2013 12:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			<b>ug/l</b>	<b>ug/l</b>	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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.	1	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
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>ug/l</b>	<b>ug/l</b>	
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
<b>GC Volatiles ECY 97-602 NWT PH-Gx</b>			<b>ug/l</b>	<b>ug/l</b>	
08273	NWT PH-Gx water C7-C12	n.a.	N.D.	50	1
<b>GC Petroleum ECY 97-602 NWT PH-Dx</b>			<b>ug/l</b>	<b>ug/l</b>	
<b>Hydrocarbons w/Si modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	1
<b>Metals SW-846 6020</b>			<b>ug/l</b>	<b>ug/l</b>	
06035	Lead	7439-92-1	0.20	0.073	1

**General Sample Comments**

State of Washington Lab Certification No. C259  
 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.

Sample Description: GW-052413-NH-MW6 Grab Groundwater  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071419  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/24/2013 12:30 by NH

Conestoga-Rovers & Associates

Suite 190

Submitted: 05/25/2013 09:15

20818 44th Ave W

Reported: 06/12/2013 16:06

Lynnwood WA 98036

TSMW6

### 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	Y131492AA	05/30/2013 05:28	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131492AA	05/30/2013 05:28	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13149WAB026	06/11/2013 16:31	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13149WAB026	05/29/2013 16:00	David S Schrum	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13158A20A	06/07/2013 18:00	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	13158A20A	06/07/2013 18:00	Laura M Krieger	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	131510012A	06/07/2013 01:28	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	131510012A	06/01/2013 06:35	Roman Kuropatkin	1
06035	Lead	SW-846 6020	1	131546050002A	06/05/2013 04:35	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131546050002	06/04/2013 12:00	James L Mertz	1



Sample Description: TRIP BLANK Water  
MLK Tidewater Site  
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 7071420  
LLI Group # 1392664  
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 05/23/2013

Conestoga-Rovers & Associates

Submitted: 05/25/2013 09:15

Suite 190

Reported: 06/12/2013 16:06

20818 44th Ave W

Lynnwood WA 98036

TSTB-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>			<b>SW-846 8260B</b>	<b>ug/l</b>	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
<b>GC Volatiles</b>			<b>ECY 97-602 NWTPH-Gx</b>	<b>ug/l</b>	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

### General Sample Comments

State of Washington Lab Certification No. C259

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
10943	BTEX 8260B Water	SW-846 8260B	1	F131552AA	06/04/2013 12:33	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131552AA	06/04/2013 12:33	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13156C07A	06/06/2013 19:36	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13156C07A	06/06/2013 19:36	Catherine J Schwarz	1

## Quality Control Summary

Client Name: Conestoga-Rovers & Associates  
Reported: 06/12/13 at 04:06 PM

Group Number: 1392664

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.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: F131552AA	Sample number(s): 7071420							
Benzene	N.D.	0.5	ug/l	90		77-121		
Ethylbenzene	N.D.	0.5	ug/l	91		79-120		
Toluene	N.D.	0.5	ug/l	91		79-120		
Xylene (Total)	N.D.	0.5	ug/l	93		77-120		
Batch number: Y131492AA	Sample number(s): 7071406-7071415,7071417-7071419							
Acetone	N.D.	6.	ug/l	101		35-181		
Benzene	N.D.	0.5	ug/l	100		77-121		
Bromobenzene	N.D.	1.	ug/l	107		80-120		
Bromochloromethane	N.D.	1.	ug/l	105		80-121		
Bromodichloromethane	N.D.	1.	ug/l	102		73-120		
Bromoform	N.D.	1.	ug/l	101		61-120		
Bromomethane	N.D.	1.	ug/l	91		51-120		
2-Butanone	N.D.	3.	ug/l	101		57-141		
n-Butylbenzene	N.D.	1.	ug/l	115		73-130		
sec-Butylbenzene	N.D.	1.	ug/l	113		74-124		
tert-Butylbenzene	N.D.	1.	ug/l	109		80-120		
Carbon Disulfide	N.D.	1.	ug/l	83		68-121		
Carbon Tetrachloride	N.D.	1.	ug/l	96		65-137		
Chlorobenzene	N.D.	0.8	ug/l	106		80-120		
Chloroethane	N.D.	1.	ug/l	93		60-120		
Chloroform	N.D.	0.8	ug/l	103		77-122		
Chloromethane	N.D.	1.	ug/l	91		54-123		
2-Chlorotoluene	N.D.	1.	ug/l	108		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	110		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	115		56-120		
Dibromochloromethane	N.D.	1.	ug/l	105		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	103		76-120		
Dibromomethane	N.D.	1.	ug/l	103		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	115		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	112		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	114		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/l	71		35-122		
1,1-Dichloroethane	N.D.	1.	ug/l	101		79-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	109		64-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	102		76-124		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	101		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	104		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	104		80-120		
1,3-Dichloropropane	N.D.	1.	ug/l	104		80-120		
2,2-Dichloropropane	N.D.	1.	ug/l	97		67-124		
1,1-Dichloropropene	N.D.	1.	ug/l	96		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	97		78-120		

\*- 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.

## Quality Control Summary

Client Name: Conestoga-Rovers & Associates  
Reported: 06/12/13 at 04:06 PM

Group Number: 1392664

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDI</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
trans-1,3-Dichloropropene	N.D.	1.	ug/l	90		66-124		
Ethylbenzene	N.D.	0.5	ug/l	102		79-120		
Hexachlorobutadiene	N.D.	2.	ug/l	121*		58-120		
2-Hexanone	N.D.	3.	ug/l	98		59-125		
Isopropylbenzene	N.D.	1.	ug/l	103		77-120		
p-Isopropyltoluene	N.D.	1.	ug/l	114		77-121		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	104		68-121		
4-Methyl-2-pentanone	N.D.	3.	ug/l	99		65-122		
Methylene Chloride	N.D.	2.	ug/l	107		84-118		
Naphthalene	N.D.	1.	ug/l	122		47-126		
n-Propylbenzene	N.D.	1.	ug/l	112		77-130		
Styrene	N.D.	1.	ug/l	105		77-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	103		79-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	116		70-129		
Tetrachloroethene	N.D.	0.8	ug/l	104		79-120		
Toluene	N.D.	0.5	ug/l	101		79-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	125*		67-120		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	115		65-120		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	97		66-126		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	108		80-120		
Trichloroethene	N.D.	1.	ug/l	101		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	96		65-130		
1,2,3-Trichloropropane	N.D.	1.	ug/l	110		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	112		69-122		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	113		68-124		
Vinyl Chloride	N.D.	1.	ug/l	94		63-120		
m+p-Xylene	N.D.	0.5	ug/l	104		77-120		
o-Xylene	N.D.	0.5	ug/l	102		77-120		
Xylene (Total)	N.D.	0.5	ug/l	104		77-120		

Batch number: 13149WAB026	Sample number(s): 7071406-7071413,7071417-7071419
Benzo(a)anthracene	N.D. 0.010 ug/l 98 99 75-115 2 30
Benzo(a)pyrene	N.D. 0.010 ug/l 97 98 72-120 1 30
Benzo(b)fluoranthene	N.D. 0.010 ug/l 105 103 74-130 2 30
Benzo(k)fluoranthene	N.D. 0.010 ug/l 102 106 74-118 4 30
Chrysene	N.D. 0.010 ug/l 101 99 75-112 2 30
Dibenz(a,h)anthracene	N.D. 0.010 ug/l 89 96 66-122 8 30
Indeno(1,2,3-cd)pyrene	N.D. 0.010 ug/l 88 96 66-122 9 30
1-Methylnaphthalene	N.D. 0.010 ug/l 107 105 72-114 2 30
2-Methylnaphthalene	N.D. 0.010 ug/l 103 101 74-119 2 30
Naphthalene	N.D. 0.030 ug/l 102 100 67-118 2 30

Batch number: 13156C07A	Sample number(s): 7071406-7071415,7071417-7071418,7071420
NWTPH-Gx water C7-C12	N.D. 50. ug/l 94 75-135

Batch number: 13158A20A	Sample number(s): 7071419
NWTPH-Gx water C7-C12	N.D. 50. ug/l 93 75-135

Batch number: 131500021A	Sample number(s): 7071406-7071415,7071417
DRO C12-C24 w/Si Gel	N.D. 30. ug/l 74 32-117
HRO C24-C40 w/Si Gel	N.D. 70. ug/l

Batch number: 131510012A	Sample number(s): 7071418-7071419
DRO C12-C24 w/Si Gel	N.D. 30. ug/l 80 75 32-117 6 20
HRO C24-C40 w/Si Gel	N.D. 70. ug/l

\*- 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.

## Quality Control Summary

Client Name: Conestoga-Rovers & Associates  
Reported: 06/12/13 at 04:06 PM

Group Number: 1392664

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 131546050002A	Sample number(s): 7071406-7071413,7071417-7071419							
Lead	N.D.	0.073	ug/l	101		90-115		

## Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: F131552AA	Sample number(s): 7071420 UNSPK: P071552								
Benzene	94	96	72-134	2	30				
Ethylbenzene	98	100	71-134	2	30				
Toluene	95	99	80-125	4	30				
Xylene (Total)	98	101	79-125	3	30				
Batch number: Y131492AA	Sample number(s): 7071406-7071415,7071417-7071419 UNSPK: 7071413								
Acetone	78	84	33-159	8	30				
Benzene	79	85	72-134	7	30				
Bromobenzene	78*	83	82-115	6	30				
Bromochloromethane	85	87	76-134	2	30				
Bromodichloromethane	74*	80	78-125	8	30				
Bromoform	62	68	48-118	9	30				
Bromomethane	80	88	47-129	10	30				
2-Butanone	73	79	57-138	9	30				
n-Butylbenzene	89	95	59-156	7	30				
sec-Butylbenzene	87	94	79-125	8	30				
tert-Butylbenzene	82	89	81-121	8	30				
Carbon Disulfide	97	103	67-135	6	30				
Carbon Tetrachloride	77	83	72-135	8	30				
Chlorobenzene	77*	83*	87-124	7	30				
Chloroethane	87	96	51-145	10	30				
Chloroform	78*	85	81-134	8	30				
Chloromethane	94	102	46-137	8	30				
2-Chlorotoluene	81*	85	82-118	5	30				
4-Chlorotoluene	80*	86	84-122	8	30				
1,2-Dibromo-3-chloropropane	77	86	54-134	10	30				
Dibromochloromethane	70*	76	74-116	7	30				
1,2-Dibromoethane	73*	79	77-116	8	30				
Dibromomethane	75*	81*	83-119	7	30				
1,2-Dichlorobenzene	81*	88	84-119	8	30				
1,3-Dichlorobenzene	81*	88	86-121	8	30				
1,4-Dichlorobenzene	81*	87	85-121	7	30				
Dichlorodifluoromethane	85	94	52-129	10	30				
1,1-Dichloroethane	81*	88	84-129	8	30				
1,2-Dichloroethane	78	86	68-131	9	30				
1,1-Dichloroethene	92	98	75-155	6	30				
cis-1,2-Dichloroethene	72 (2)	74 (2)	80-141	0	30				
trans-1,2-Dichloroethene	83	91	81-142	8	30				
1,2-Dichloropropane	78*	86	83-124	9	30				
1,3-Dichloropropane	76*	82	81-120	8	30				
2,2-Dichloropropane	80	86	69-135	8	30				
1,1-Dichloropropene	80*	86	86-137	8	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.

## Quality Control Summary

Client Name: Conestoga-Rovers & Associates  
Reported: 06/12/13 at 04:06 PM

Group Number: 1392664

### Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
cis-1,3-Dichloropropene	68*	74	70-116	9	30				
trans-1,3-Dichloropropene	63*	69*	74-119	9	30				
Ethylbenzene	76	83	71-134	8	30				
Hexachlorobutadiene	88	97	56-134	9	30				
2-Hexanone	68	74	55-127	9	30				
Isopropylbenzene	76	83	75-128	8	30				
p-Isopropyltoluene	85	91	76-123	7	30				
Methyl Tertiary Butyl Ether	77	82	72-126	7	30				
4-Methyl-2-pentanone	68	74	63-123	9	30				
Methylene Chloride	85	91	78-133	7	30				
Naphthalene	83	92	52-125	10	30				
n-Propylbenzene	86	93	74-134	8	30				
Styrene	74*	80	78-125	7	30				
1,1,1,2-Tetrachloroethane	73*	78	74-136	6	30				
1,1,2,2-Tetrachloroethane	78	86	72-128	9	30				
Tetrachloroethene	67 (2)	69 (2)	80-128	0	30				
Toluene	77*	83	80-125	8	30				
1,2,3-Trichlorobenzene	87	94	69-119	8	30				
1,2,4-Trichlorobenzene	83	89	70-124	7	30				
1,1,1-Trichloroethane	68*	74	69-140	8	30				
1,1,2-Trichloroethane	77	83	71-141	8	30				
Trichloroethene	71 (2)	72 (2)	88-133	0	30				
Trichlorofluoromethane	96	104	64-146	8	30				
1,2,3-Trichloropropane	74*	79	76-118	6	30				
1,2,4-Trimethylbenzene	82	89	72-130	9	30				
1,3,5-Trimethylbenzene	83	90	65-132	8	30				
Vinyl Chloride	89	98	66-133	6	30				
m+p-Xylene	78*	84	79-125	8	30				
o-Xylene	74*	80	79-125	8	30				
Xylene (Total)	76*	83	79-125	8	30				

Batch number: 13156C07A      Sample number(s): 7071406-7071415,7071417-7071418,7071420 UNSPK: 7071413  
NWTPH-Gx water C7-C12      90      91      75-135      2      30

Batch number: 13158A20A      Sample number(s): 7071419 UNSPK: P076857  
NWTPH-Gx water C7-C12      110      102      75-135      6      30

Batch number: 131500021A      Sample number(s): 7071406-7071415,7071417 UNSPK: 7071413  
DRO C12-C24 w/Si Gel      79      83      60-120      0      20

Batch number: 131546050002A      Sample number(s): 7071406-7071413,7071417-7071419 UNSPK: 7071413 BKG: 7071413  
Lead      103      104      83-120      1      20      0.24      0.24      1 (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: UST VOCs by 8260B - Water

\*- 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.

## Quality Control Summary

Client Name: Conestoga-Rovers & Associates  
Reported: 06/12/13 at 04:06 PM

Group Number: 1392664

### Surrogate Quality Control

Batch number: F131552AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7071420	99	100	98	92
Blank	94	98	100	93
LCS	96	99	101	95
MS	98	102	99	93
MSD	97	100	101	93
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Ext. Water Master w/GRO

Batch number: Y131492AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7071406	103	103	96	88
7071407	100	101	98	98
7071408	100	101	99	89
7071409	96	98	97	98
7071410	99	101	99	100
7071411	96	99	98	97
7071412	97	99	100	98
7071413	100	102	98	91
7071414	99	102	101	99
7071415	98	102	101	98
7071417	98	103	99	92
7071418	100	101	98	90
7071419	101	101	97	91
Blank	100	100	99	88
LCS	98	104	101	99
MS	99	102	101	99
MSD	98	102	101	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM

Batch number: 13149WAB026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7071406	101	95	99
7071407	101	101	99
7071408	100	95	101
7071409	96	95	98
7071410	100	98	99
7071411	97	95	95
7071412	98	91	98
7071413	100	97	104
7071417	98	97	99
7071418	100	100	99
7071419	100	96	100
Blank	95	92	100
LCS	97	94	104
LCSD	96	95	102
Limits:	64-120	62-141	58-134

\*- 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.

## Quality Control Summary

Client Name: Conestoga-Rovers & Associates  
Reported: 06/12/13 at 04:06 PM

Group Number: 1392664

### Surrogate Quality Control

Analysis Name: NWTPH-Gx water C7-C12  
Batch number: 13156C07A  
Trifluorotoluene-F

7071406	90
7071407	97
7071408	92
7071409	100
7071410	97
7071411	99
7071412	99
7071413	104
7071414	115
7071415	113
7071417	92
7071418	94
7071420	100
Blank	92
LCS	107
MS	115
MSD	113

Limits: 63-135

Analysis Name: NWTPH-Gx water C7-C12  
Batch number: 13158A20A  
Trifluorotoluene-F

7071419	80
Blank	81
LCS	106
MS	114
MSD	111

Limits: 63-135

Analysis Name: NWTPH-Dx water w/Si Gel  
Batch number: 131500021A  
Orthoterphenyl

7071406	99
7071407	100
7071408	108
7071409	99
7071410	97
7071411	95
7071412	99
7071413	89
7071414	106
7071415	112
7071417	102
Blank	107
LCS	109
MS	106
MSD	112

\*- 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.

## Quality Control Summary

Client Name: Conestoga-Rovers & Associates  
Reported: 06/12/13 at 04:06 PM

Group Number: 1392664

### Surrogate Quality Control

---

Limits: 50-150

Analysis Name: NWTPH-Dx water w/Si Gel  
Batch number: 131510012A  
Orthoterphenyl

---

7071418	103
7071419	105
Blank	96
LCS	105
LCSD	101

---

Limits: 50-150

\*- 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.





Acct# 13534  
 Grp# 1392664  
**CONESTOGA-ROVERS & ASSOCIATES**

Sample# 7071406-20  
**CHAIN OF CUSTODY RECORD**

Address: 1117 TACOMA AVE. S. TACOMA, WA. 98402  
 Phone: 253.573.1218 Fax: 253.573.1663

COC NO.: 37484

PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 061992-2013.1				Laboratory Name: LANCASTER				Lab Location: LANCASTER, PA				SSOW ID:											
Project Name: TIDEWATER - MLK SEATTLE				Lab Contact:				Lab Quote No:				Cooler No:											
Project Location: SEATTLE, WA.				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier:							
Chemistry Contact: J. CLOUD / M. DAVIS				Matrix Code (see back of COC) Grab (G) or Comp (C)				Unpreserved Hydrochloric Acid (HCl) Nitric Acid (HNO <sub>3</sub> ) Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ) Sodium Hydroxide (NaOH) Methanol/Water (Soil VOC) EnCores 3x5-g, 1x25-g Other:				Total Containers/Sample TPHD TPHG SVOC'S VOC'S TOTAL LEAD				MS/MSD Request				Airbill No:			
Sampler(s): N. HINDSPERGER																				Date Shipped:			
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO <sub>3</sub> )	Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	TPHD	TPHG	SVOC'S	VOC'S	TOTAL LEAD	MS/MSD Request	COMMENTS/SPECIAL INSTRUCTIONS:		
1	GW-052313-NH-MW4	05/23/13	11:45	WG	G									11	X	X	X	X	X				
2	GW-052313-NH-MW3	05/23/13	15:20	WG	G									11	X	X	X	X	X				
3	GW-052313-NH-MW1	05/23/13	10:30	WG	G									11	X	X	X	X	X				
4	GW-052313-NH-MW8	05/23/13	12:30	WG	G									11	X	X	X	X	X				
5	GW-052313-NH-FD1	05/23/13		WG	G									11	X	X	X	X	X				
6	GW-052313-NH-MW2	05/23/13	14:30	WG	G									11	X	X	X	X	X		* entered as MW9 per sample labels. gmp 5/28/13		
7	GW-052313-NH-MW5	05/23/13	16:00	WG	G									11	X	X	X	X	X				
8	GW-052413-NH-MW4*	05/24/13	9:30	WG	G									22	X	X	X	X	X	X	X		
9	GW-052413-NH-MW10	05/24/13	10:30	WG	G									10	X	X	X	X	X		X MS/MSD		
10	GW-052413-NH-MW7	05/24/13	11:30	WG	G									10	X	X	X	X	X		MS/MSD for VOCs, Gx & Dx only. Trip Blank for Gx & BTEX per M. Davis. gmp 5/28/13		
11	GW-052413-NH-MW6	05/24/13	12:30	WG	G									10	X	X	X	X	X				
12	TRIP BLANKS													4									
13																							
14																							
15																							
TAT Required in business days (use separate COCs for different TATs): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input checked="" type="checkbox"/> Other: STANDARD						Total Number of Containers: 133				Notes/ Special Requirements:													
All Samples in Cooler must be on COC																							
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME												
1.	CRA	05/24/13	16:00	1.																			
2.				2.																			
3.				3.	LLI	5/29/13	0915																

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

# Explanation of Symbols and Abbreviations

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

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>J</b>	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
<b>ppm</b>	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 of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	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.		

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC 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.

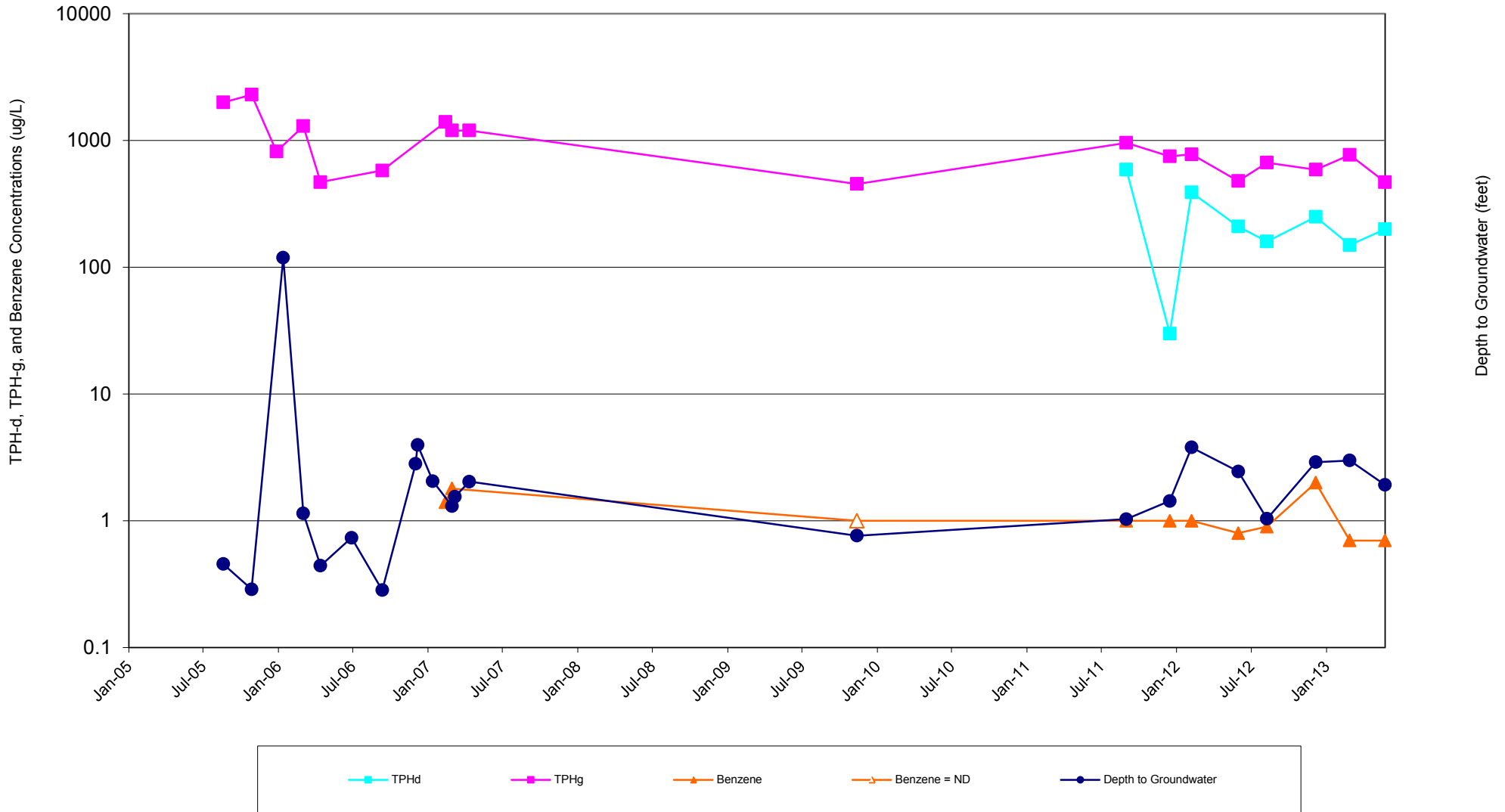
Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

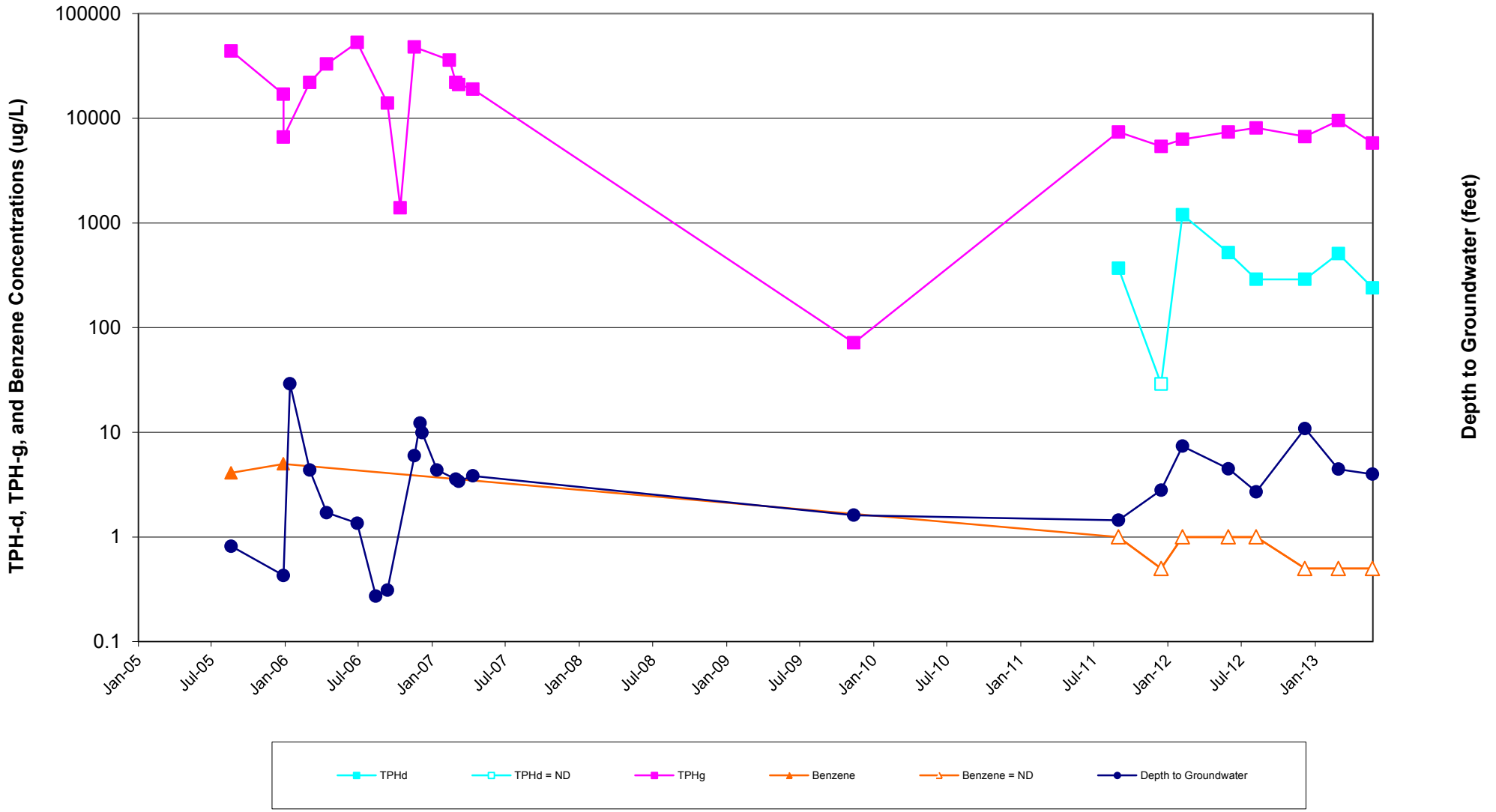
ATTACHMENT C

CONCENTRATION TREND GRAPHS

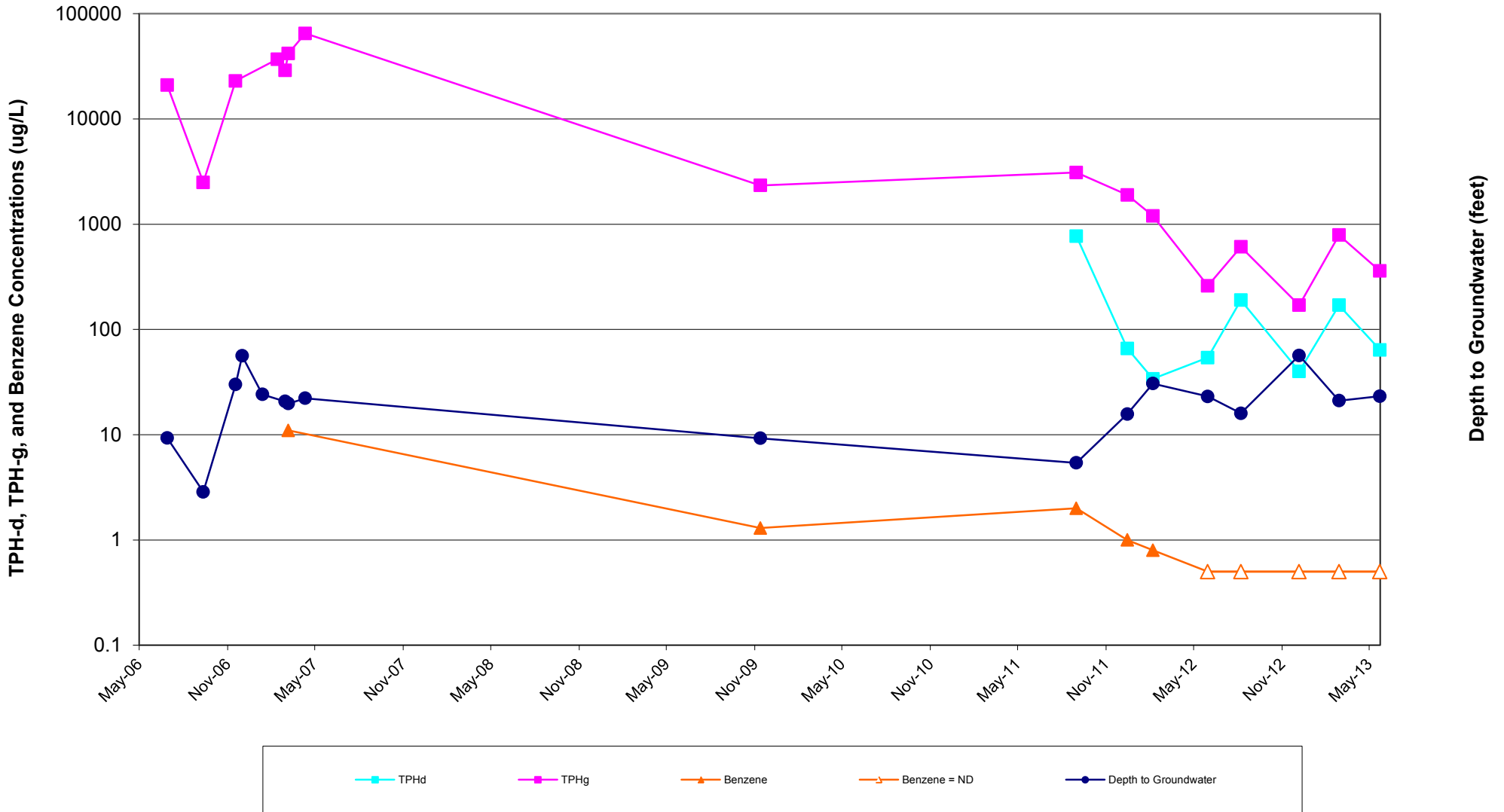
**GRAPH 1**  
**CHEMICAL CONCENTRATION VERSUS TIME**  
**MW-2**  
 FORMER TIDEWATER SITE  
 2800 MARTIN LUTHER KING JUNIOR WAY SOUTH  
 SEATTLE, WASHINGTON



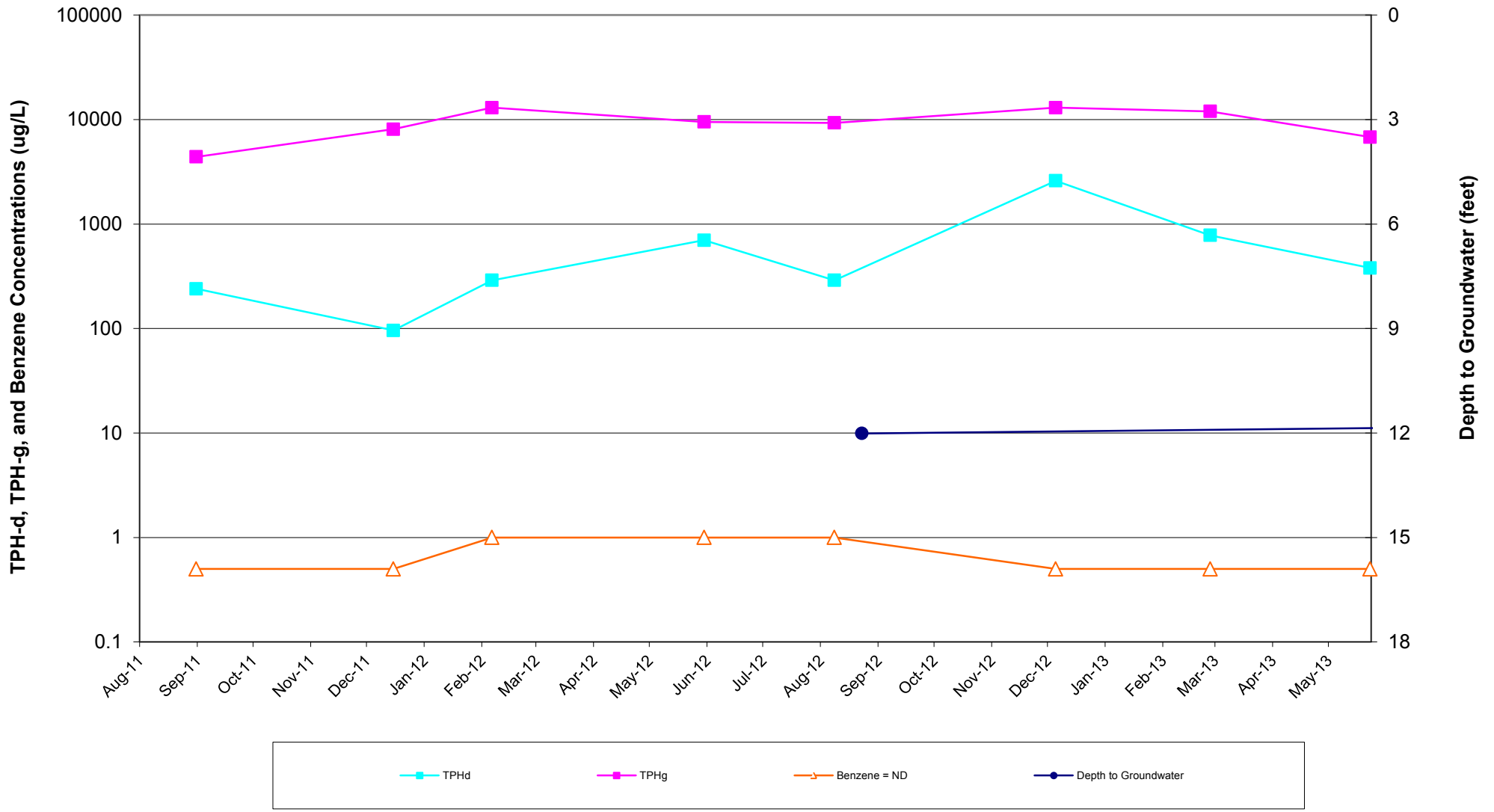
**GRAPH 2**  
**CHEMICAL CONCENTRATION VERSUS TIME**  
**MW-3**  
 FORMER TIDEWATER SITE  
 2800 MARTIN LUTHER KING JUNIOR WAY SOUTH  
 SEATTLE, WASHINGTON



**GRAPH 3**  
**CHEMICAL CONCENTRATION VERSUS TIME**  
**MW-5**  
 FORMER TIDEWATER SITE  
 2800 MARTIN LUTHER KING JUNIOR WAY SOUTH  
 SEATTLE, WASHINGTON



**GRAPH 4**  
**CHEMICAL CONCENTRATION VERSUS TIME**  
**MW-8**  
 FORMER TIDEWATER SITE  
 2800 MARTIN LUTHER KING JUNIOR WAY SOUTH  
 SEATTLE, WASHINGTON



ATTACHMENT D

SUMMARY OF PREVIOUS INVESTIGATIONS



## SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIATION

Former Tidewater Site  
Phillips 66 Site 5173  
Chevron Site 301233  
2800 Martin Luther King Junior Way South  
Seattle, Washington

### **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 ( $\mu\text{g}/\text{L}$ ). 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.