CONESTOGA-ROVERS & ASSOCIATES

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December 11, 2012 Reference No. 061992

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

Re: Third Quarter 2012 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

Dear Mr. Bails,

Conestoga-Rovers & Associates (CRA) is submitting this *Third Quarter 2012 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 and standard operating procedures (SOP) are presented as Attachment A. Lancaster Laboratories' *Analytical Results* report is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C. Graphs depicting total petroleum hydrocarbons as diesel (TPHd), TPH as gasoline (TPHg), and benzene concentrations over time for select wells are included as Attachment D. A summary of previous site investigation is included as Attachment E. A site map is presented on Figure 2.

RESULTS OF THIRD QUARTER 2012 EVENT

On August 7 and 8, 2012, 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 feet/foot
- Approximate Depth to Water — 11 to 13 feet below grade
- Approximate Groundwater Elevation — 45 to 51 feet above mean sea level

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	*TPHd (µg/L)*	*TPHo (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Total Xylenes (µg/L)*
MTCA Method A Cleanup Levels	***500***	***500***	***800/1000****	***5***	***1000***	***700***	***1000***
MW-1	<29	<67	<50	<0.5	<0.5	<0.5	<0.5
MW-2	160	<67	670	0.9	<0.5	<0.5	0.5
MW-3	290	<67	**8,100**	<1	<1	140	610
MW-4	<29	<68	<50	<0.5	<0.5	<0.5	<0.5
MW-5	190	<66	610	<0.5	<0.5	11	22
MW-6	<28	<66	<50	<0.5	<0.5	<0.5	<0.5
MW-7	<28	<66	<50	<0.5	<0.5	<0.5	<0.5
MW-8	290	<66	**9,300**	<1	<1	92	850
MW-8 DUP	240	<66	**11,000**	<1	<1	83	710
MW-9	<29	<67	<50	<0.5	<0.5	<0.5	<0.5
MW-10	130	<68	110	1	<0.5	<0.5	1

Bold Indicates concentration exceed MTCA Method A cleanup level

* TPHg Cleanup Level for wells containing benzene is 800 µg/L; otherwise, the cleanup level for TPHg is 1,000 µg/L.

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 in two wells (MW-3 and MW-8), with the highest concentration detected at MW-8 (Figure 5).
- TPHd concentrations were below the MTCA Method A cleanup level in groundwater in all wells (Figure 6).
- TPHo concentrations were below MTCA Method A cleanup levels.
- Benzene, toluene, ethylbenzene, and total xylene concentrations were all below the MTCA Method A cleanup levels in groundwater. .

- With the exception of 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 assess concentration trends over time.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring
CRA will monitor and sample site wells per the established schedule. The fourth quarter 2012 event is scheduled for late November 2012. CRA will submit a groundwater monitoring and sampling report approximately 90 days following receipt of laboratory analytical results.

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/2
Encl.

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 and SOP for Low Flow Groundwater Monitoring and Sampling
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data
Attachment D	Concentration Trend Graphs
Attachment E	Summary of Previous Investigation

cc: Mr. Rick Rittenberg, Chevron *(electronic copy)*
Mr. Louis Mosconi, Phillips 66 (*electronic copy*)
Greg McCormick, EP Inc. (*electronic copy*)

FIGURES

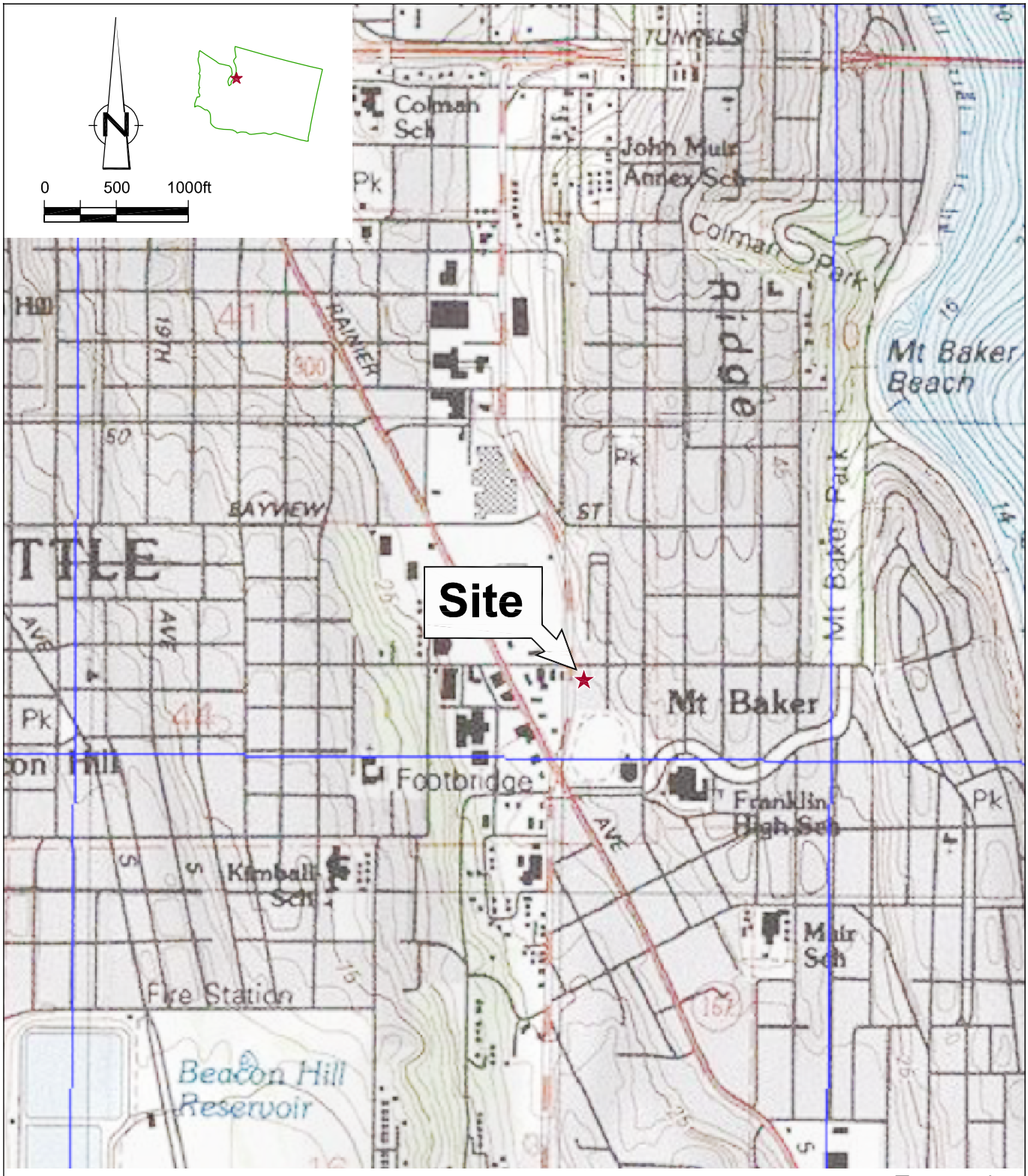
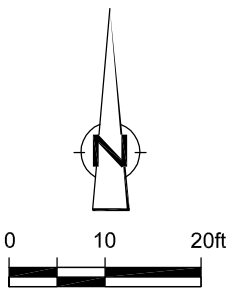


Figure 1

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

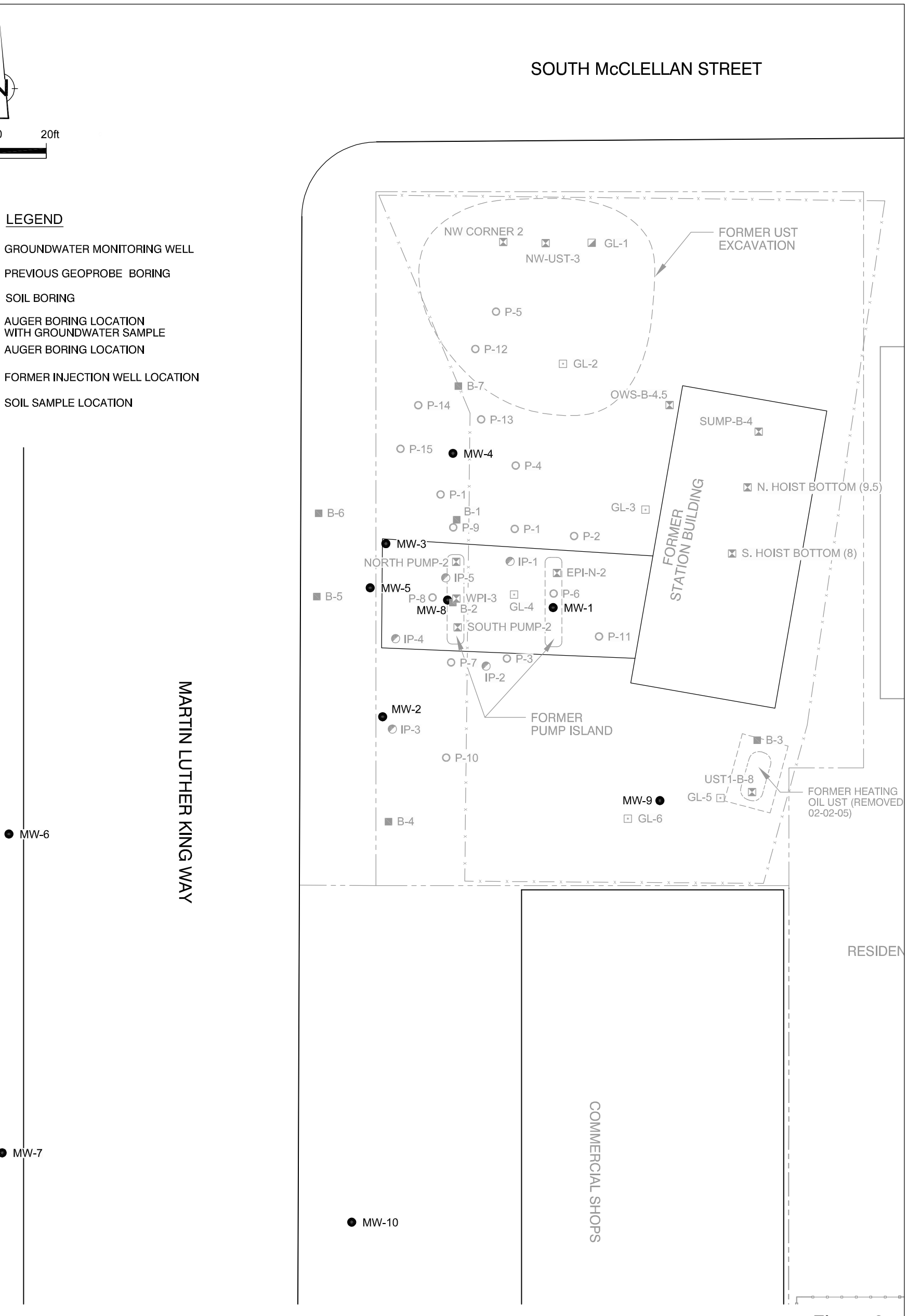


Figure 2

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

CRA

061992-95(002)GN-EM002 OCT 11/2012

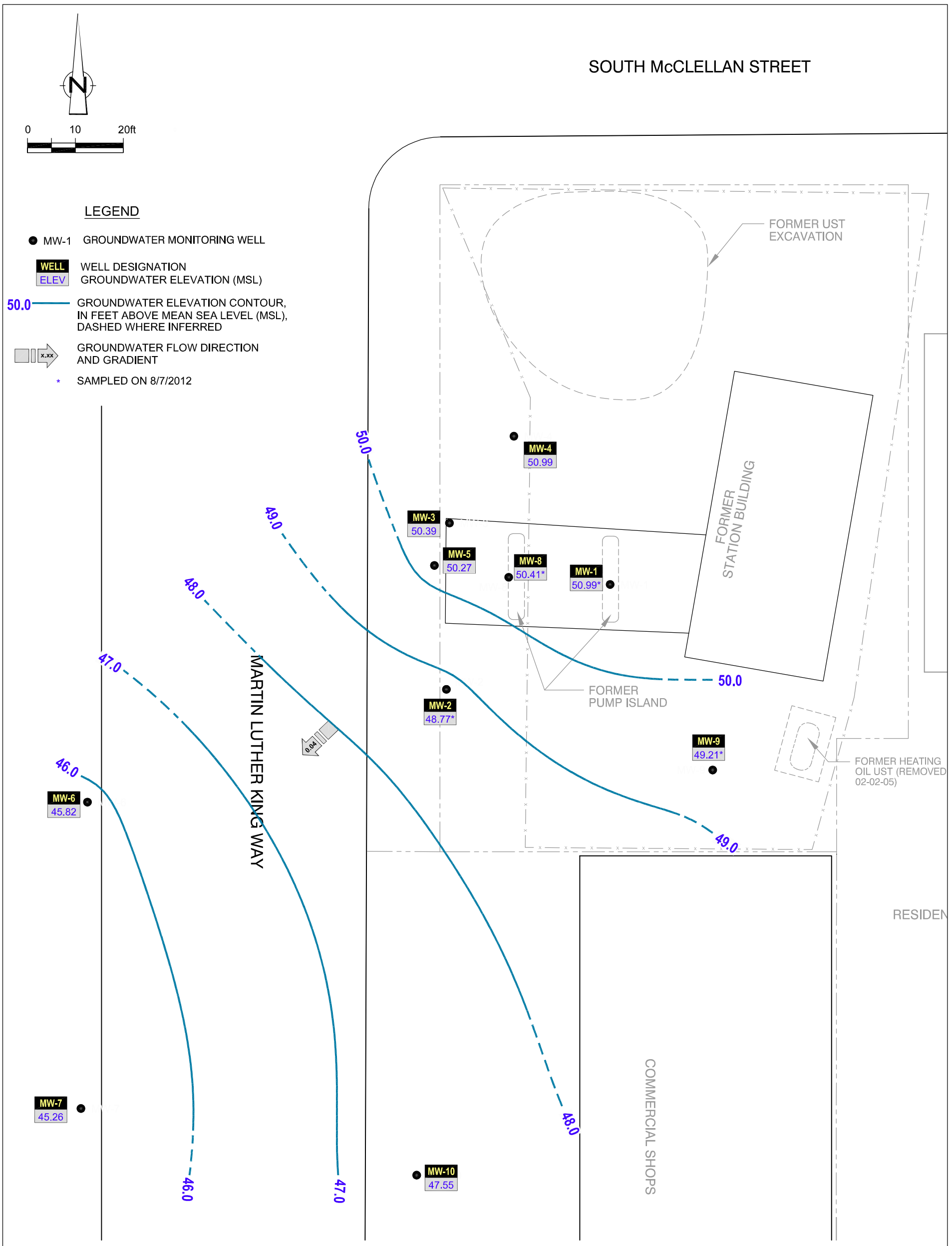
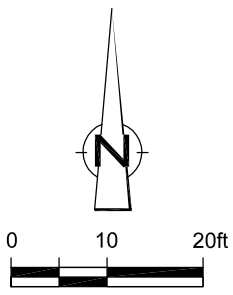


Figure 3

GROUNDWATER ELEVATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
August 7, 2012

CRA

061992-95(002)GN-EM003 OCT 11/2012



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 8/8/2012
- 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
August 7, 2012

CRA

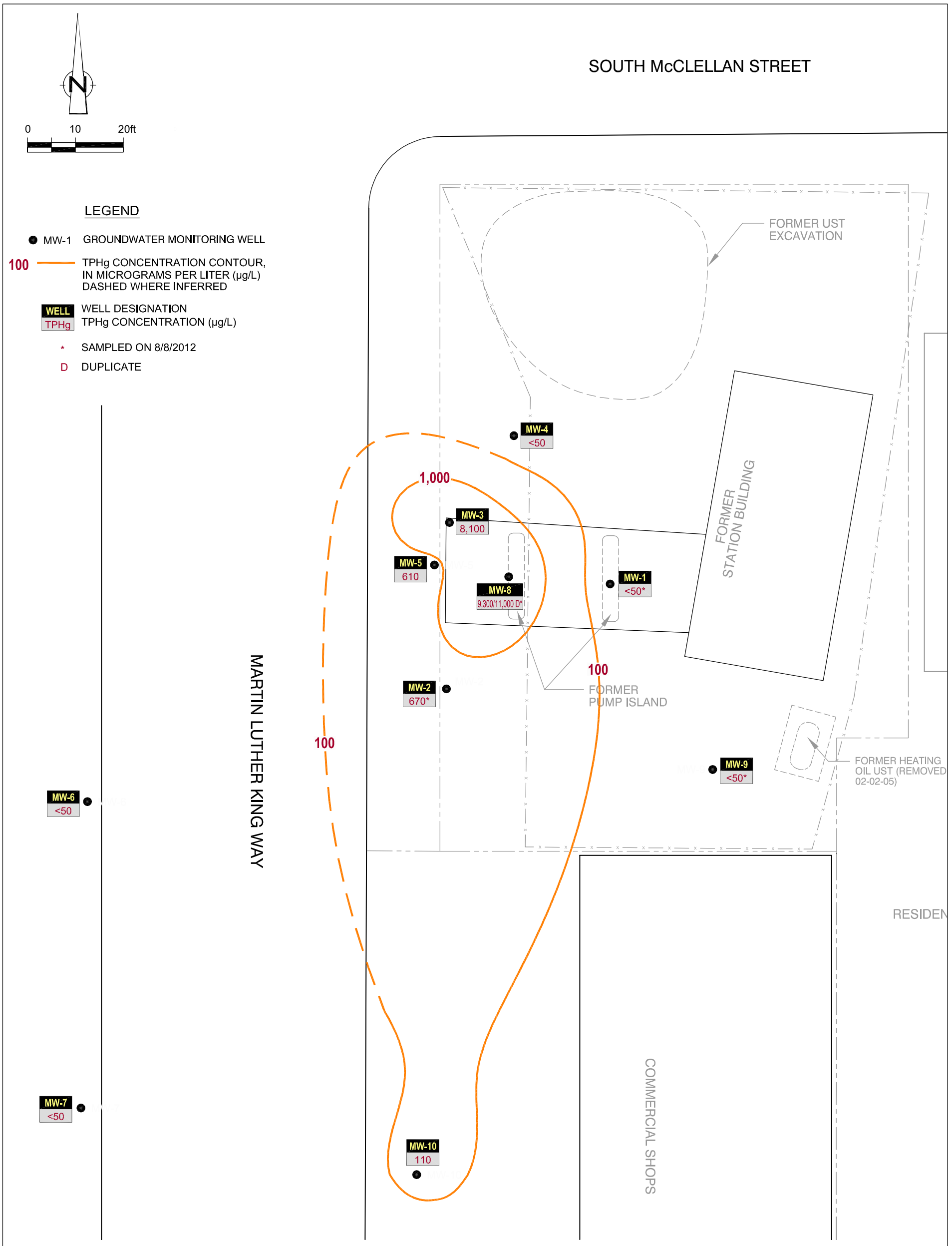
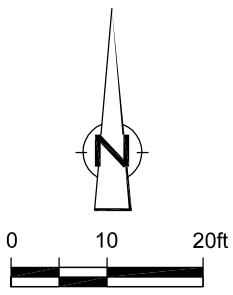


Figure 5

TPHg ISOCONCENTRATION CONTOUR MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING WAY SOUTH
Seattle, Washington
August 7, 2012

061992-95(002)GN-EM005 NOV 16/2012



LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- 100 TPHd CONCENTRATION CONTOUR, IN MICROGRAMS PER LITER (µg/L) DASHED WHERE INFERRED
- WELL / TPHd WELL DESIGNATION, TPHd CONCENTRATION (µg/L)
- * SAMPLED ON 8/8/2012
- D DUPLICATE

SOUTH McCLELLAN STREET

FORMER UST EXCAVATION

FORMER STATION BUILDING

FORMER PUMP ISLAND

FORMER HEATING OIL UST (REMOVED 02-02-05)

MW-4 <29

MW-3 290

MW-5 190

MW-8 290/240 D*

MW-1 <29*

MW-2 160*

MW-9 <29*

MW-6 <28

MW-7 <28

MW-10 130

100

100

100

MARTIN LUTHER KING WAY

COMMERCIAL SHOPS

RESIDEN

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
August 7, 2012

CRA

061992-95(002)GN-EM006 OCT 11/2012

TABLE

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			*PRIMARY VOCS*													
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*B*	*T*	*E*	*X*	*EDB*	*EDC*	*MTBE*	*Naphthalene*	*1,2,4-Trimethylbenzene*	*1,3,5-Trimethylbenzene*	*N-Propylbenzene*	*Isopropyl benzene*	*Lead (Total)*	*cPAHs*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-1	08/19/2005	97.92	13.01	84.91	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	10/27/2005	97.92	12.62	85.30	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	12/27/2005	97.92	-	-	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	01/12/2006	97.92	9.03	88.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/02/2006	97.92	10.56	87.36	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	06/28/2006	97.92	12.42	85.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/01/2006	97.92	9.33	88.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/06/2006	97.92	9.72	88.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	02/28/2007	97.92	11.04	86.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/07/2007	97.92	11.14	86.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	04/11/2007	97.92	11.06	86.86	ND	-	-	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-
MW-1	11/12/2009	97.92	11.08	86.84	<50	-	-	<1.0	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-
MW-1	08/30/2011[3]	97.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/15/2011[3]	97.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	02/06/2012	62.35	9.84	52.51	260	430	620	<0.5	41	3	18	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-1	05/30/2012	62.35	10.63	51.72	<50	35	170	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	1.7	0.007399
MW-1	**08/08/2012**	**62.35**	**11.36**	**50.99**	**<50**	**<29[4]**	**<67[4]**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.32**	**-**
MW-2	08/19/2005	96.25	13.02	83.23	2,000	-	-	ND	10	81	91	-	-	-	-	-	-	-	-	-	-
MW-2	10/27/2005	96.25	13.62	82.63	2,300	-	-	ND	ND	89	93	-	-	-	-	-	-	-	-	-	-
MW-2	12/27/2005	96.25	-	-	820	-	-	ND	ND	21	66	-	-	-	-	-	-	-	-	-	-
MW-2	01/12/2006	96.25	5.77	90.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/02/2006	96.25	11.82	84.43	1,300	-	-	ND	3.9	23	50	-	-	-	-	-	-	-	-	-	-
MW-2	04/13/2006	96.25	13.06	83.19	470	-	-	ND	1.4	6.9	15	-	-	-	-	-	-	-	-	-	-

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			*PRIMARY VOCS*													
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*B*	*T*	*E*	*X*	*EDB*	*EDC*	*MTBE*	*Naphthalene*	*1,2,4-Trimethylbenzene*	*1,3,5-Trimethylbenzene*	*N-Propylbenzene*	*Isopropyl benzene*	*Lead (Total)*	*cPAHs*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-2	06/28/2006	96.25	12.40	83.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/11/2006	96.25	13.64	82.61	580	-	-	ND	1.6	2.9	6.2	-	-	-	-	-	-	-	-	-	-
MW-2	12/01/2006	96.25	10.65	85.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	12/06/2006	96.25	10.20	86.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	01/12/2007	96.25	11.06	85.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	02/12/2007	96.25	-	-	1,400	-	-	1.4	3.5	16	13	-	-	-	-	-	-	-	-	-	-
MW-2	02/28/2007	96.25	11.65	84.60	1,200	-	-	2	4	18	60	-	-	-	-	-	-	-	-	-	-
MW-2	03/07/2007	96.25	11.43	84.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	04/11/2007	96.25	11.07	85.18	1,200	-	-	ND	3	11	63	-	-	-	-	-	-	-	-	-	-
MW-2	11/12/2009	96.25	12.35	83.90	455	-	-	<1.0	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-	-
MW-2	08/31/2011	60.72	11.96	48.76	960	590	-	1	<0.7	1	6	<1	<1	<0.5	<1	<1	<1	59	24	-	-
MW-2	12/15/2011	60.72	11.53	49.19	750	30	-	1	<0.7	1	<1.6	<1	<1	<0.5	<1	<1	<1	60	25	-	-
MW-2	02/06/2012	60.72	10.26	50.46	780	390	-	1	2	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	55	22	-	-
MW-2	05/30/2012	60.72	10.83	49.89	480	210	<67	0.8	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	47	21	3.8	0.007173
MW-2	**08/08/2012**	**60.72**	**11.95**	**48.77**	**670**	**160[4]**	**<67[4]**	**0.9**	**<0.5**	**<0.5**	**0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**48**	**24**	**8.3**	**-**
MW-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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			*PRIMARY VOCS*													
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*B*	*T*	*E*	*X*	*EDB*	*EDC*	*MTBE*	*Naphthalene*	*1,2,4-Trimethylbenzene*	*1,3,5-Trimethylbenzene*	*N-Propylbenzene*	*Isopropyl benzene*	*Lead (Total)*	*cPAHs*
	Units	*ft*	*ft*	*ft-amsl*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-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
MW-3	**08/07/2012**	**61.81**	**11.42**	**50.39**	**8,100**	**290[4]**	**<67[4]**	**<1**	**<1**	**140**	**610**	**<1**	**<1**	**<1**	**71**	**830**	**140**	**86**	**33**	**0.98**	**-**
MW-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	-	-	-	-	-	-	-	-	-	-

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			*PRIMARY VOCS*													
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*B*	*T*	*E*	*X*	*EDB*	*EDC*	*MTBE*	*Naphthalene*	*1,2,4-Trimethylbenzene*	*1,3,5-Trimethylbenzene*	*N-Propylbenzene*	*Isopropyl benzene*	*Lead (Total)*	*cPAHs*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-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	-	-
MW-4	12/15/2011	62.75	11.69	51.06	<50	<29	<67	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-4	02/06/2012	62.75	10.50	52.25	<50	55	<67	<0.5	<0.7	<0.8	<1.6	<2	<2	<0.5	<1	<1	<1	<1	<1	-	-
MW-4	05/30/2012	62.75	11.11	51.64	<50	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	1.8	0.007248
MW-4	**08/07/2012**	**62.75**	**11.76**	**50.99**	**<50**	**<29[4]**	**<68[4]**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.34**	**-**
MW-5	06/28/2006	97.20	12.09	85.11	21,000	-	-	ND	14	290	920	-	-	-	-	-	-	-	-	-	-
MW-5	09/11/2006	97.20	13.63	83.57	2,500	-	-	ND	ND	34	60	-	-	-	-	-	-	-	-	-	-
MW-5	11/17/2006	97.20	10.57	86.63	23,000	-	-	ND	52	450	1,700	-	-	-	-	-	-	-	-	-	-
MW-5	12/01/2006	97.20	9.75	87.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	01/12/2007	97.20	10.85	86.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	02/12/2007	97.20	-	-	37,000	-	-	ND	33	1,600	2,800	-	-	-	-	-	-	-	-	-	-
MW-5	02/28/2007	97.20	11.05	86.15	29,000	-	-	ND	24	550	1,800	-	-	-	-	-	-	-	-	-	-
MW-5	03/07/2007	97.20	11.11	86.09	42,000	-	-	11	24	740	2,500	-	-	-	-	-	-	-	-	-	-
MW-5	04/11/2007	97.20	10.96	86.24	65,000	-	-	ND	79	850	4,000	-	-	-	-	-	-	-	-	-	-
MW-5	11/12/2009	97.20	12.10	85.10	2,340	-	-	1	36	<1.0	125	-	-	-	-	-	-	-	-	-	-
MW-5	08/31/2011	61.66	12.80	48.86	3,100	770	<67	2	1	72	124	<1	<1	<0.5	120	130	18	210	78	-	-
MW-5	12/15/2011	61.66	11.41	50.25	1,900	66	<67	1	0.9	24	33	<1	<1	<0.5	81	43	3	120	43	-	-
MW-5	02/06/2012	61.66	10.54	51.12	1,200	34	<68	0.8	<0.7	12	43	<1	<1	<0.5	37	31	6	55	21	-	-
MW-5	05/30/2012	61.66	10.91	50.75	260	54	<66	<0.5	<0.7	3	7	<1	<1	<0.5	12	4	<1	24	9	0.48	0.009168
MW-5	**08/07/2012**	**61.66**	**11.39**	**50.27**	**610**	**190[4]**	**<66[4]**	**<0.5**	**<0.5**	**11**	**22**	**<0.5**	**<0.5**	**<0.5**	**21**	**33**	**12**	**32**	**13**	**5.1**	**-**
MW-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	-	-

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			*PRIMARY VOCS*													
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*B*	*T*	*E*	*X*	*EDB*	*EDC*	*MTBE*	*Naphthalene*	*1,2,4-Trimethylbenzene*	*1,3,5-Trimethylbenzene*	*N-Propylbenzene*	*Isopropyl benzene*	*Lead (Total)*	*cPAHs*
	Units	*ft*	*ft*	*ft-amsl*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-6	02/06/2012	58.03	11.80	46.23	<50	<29	<68	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-6	05/30/2012	58.03	12.03	46.00	<50	<29	<68	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	2.5	-
MW-6	**08/07/2012**	**58.03**	**12.21**	**45.82**	**<50**	**<28[4]**	**<66[4]**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.15**	**-**
MW-7	08/31/2011	56.96	11.15	45.81	<50	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-7	12/15/2011	56.96	10.93	46.03	<50	45	89	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-7	02/06/2012	56.96	10.75	46.21	<50	<29	<68	<0.5	2	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-7	05/30/2012	56.96	10.93	46.03	<50	37	160	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	13.8	0.097
MW-7	**08/07/2012**	**56.96**	**11.70**	**45.26**	**<50**	**<28[4]**	**<66[4]**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**31.7**	**-**
MW-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[4]**	**<66[4]**	**<1**	**<1**	**92**	**850**	**<1**	**<1**	**<1**	**73**	**910**	**190**	**49**	**22**	**3.4**	**-**
MW-8 DUP	**08/08/2012**	**61.71**	**11.30**	**50.41**	**11,000**	**240[4]**	**<66[4]**	**<1**	**<1**	**83**	**710**	**<1**	**<1**	**<1**	**67**	**680**	**140**	**44**	**20**	**3.6**	**-**
MW-9	08/31/2011	62.58	14.29	48.29	<50	78	<68	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-9	12/15/2011	62.58	13.01	49.57	<50	<29	<67	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-9	02/06/2012	62.58	12.04	50.54	66	<300	<700[1]	<0.5	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-9	05/30/2012	52.58	12.53	40.05	66	<29	<67	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	0.31	0.007248
MW-9	**08/08/2012**	**62.58**	**13.37**	**49.21**	**<50**	**<29[4]**	**<67[4]**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**<1**	**<1**	**0.87**	**-**

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

					HYDROCARBONS			*PRIMARY VOCS*													
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*B*	*T*	*E*	*X*	*EDB*	*EDC*	*MTBE*	*Naphthalene*	*1,2,4-Trimethylbenzene*	*1,3,5-Trimethylbenzene*	*N-Propylbenzene*	*Isopropyl benzene*	*Lead (Total)*	*cPAHs*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-10	08/31/2011	58.96	11.94	47.02	<50	260	100	2	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	-	-
MW-10	12/15/2011	58.96	11.13	47.83	51	<28	<66	3	<0.7	<0.8	0.8	<1	<1	<0.5	<1	<1	<1	2	<1	-	-
MW-10	02/06/2012	58.96	10.44	48.52	<50[2]	<29	<68	1	<0.7	<0.8	<1.6	<1	<1	<0.5	<1	<1	<1	3	1	-	-
MW-10	05/30/2012	58.96	10.77	48.19	<50	74	<66	<0.5	<0.7	<0.8	<0.8	<1	<1	<0.5	<1	<1	<1	<1	<1	0.46	0.007248
MW-10 DUP	05/30/2012	58.96	10.77	48.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49	-
MW-10	**08/07/2012**	**58.96**	**11.41**	**47.55**	**110**	**130[4]**	**<68[4]**	**1**	**<0.5**	**<0.5**	**1**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<1**	**<1**	**10**	**4**	**<0.034**	**-**
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**	**-**	**-**

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

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5173
CHEVRON SITE 301233
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

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

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

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.

ATTACHMENT A

MONITORING DATA PACKAGE AND SOP FOR LOW FLOW GROUNDWATER MONITORING AND SAMPLING

WATER LEVEL RECORD

PROJECT NAME: TIDEWATER - SEATTLE, WA. LOCATION: 2800 MLK WAY, SEATTLE, W

JOB NO.: 061992-2012.3 DATE: 08/08/12

CLIENT: P66 ENGINEER/GEOLOGIST: D. Winspenger

OBSERVATION WELL	TOP OF CASING ELEVATION A		DEPTH TO WATER B		DEPTH TO PRODUCT C		WATER LEVEL ELEVATION A-B	
	feet	metres	feet	metres	feet	metres	feet	metres
MW 4			11.76					
MW 3			11.42					
MW 5			11.39					
MW 2			11.95					
MW 6			12.21					
MW 7			11.70					
MW 1			11.36					
MW 9			13.37					
MW 8			11.30					
MW 10			11.41					

CRA

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 8/7/12

Location: MW-7
Name of Sampler: JS
Weather: cloudy

Depth to Water: 11.07
Depth to Bottom: _____

Sample Depth: _____

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- 080712-JS-MW7

Sample Method: low flow
Purge Start: 0924
Sample Time: 0950

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
0932	6.07	0.090	-5.0	0.62	18.11	-237	0.0	0.6			11.08	
0935	6.19	99.90	-5.0	0.49	18.19	-248	0.0	0.6			11.08	
0938	6.21	0.090	-5.0	0.44	18.14	-253	0.0	0.6			11.08	
0941	6.24	0.090	-5.0	0.44	18.12	-254	0.0	0.5			11.08	
0944	6.26	0.090	-5.0	0.42	18.08	-255	0.0	0.5			11.08	
0950	Start collect samples.											

Analysis:

Groundwater		**Preservative**
GRO	✓	HCL
DRO	✓	HCL
VOCs	✓	HCL
SVOCs	✓	
Total Lead	✓	

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 08/08/12

Location: MW9
Name of Sampler: N. Hinspenger
Weather: Sunny

Depth to Water: 13.37
Depth to Bottom: _____

Sample Depth: _____

QA/QC
MS/MSD _____
Duplicate _____
Blank _____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 080812- NH- MW9

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

_____

Sample Method: LOW FLOW
Purge Start: 10:30
Sample Time: 11:30

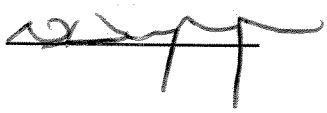
1 Well Volume: _____
3 Well Volumes: _____

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
10:35	7.07	99.9	-5.0	2.13	16.08	-104	0.1	1.62		.100	13.51	TURBID
10:40	7.11	99.9	-5.0	0.34	16.14	-108	0.1	1.62		.100	13.61	" "
10:45	7.25	99.9	-5.0	0.0	15.98	-108	0.1	1.62		.100	13.61	" "
10:50	6.93	99.5	612.0	0.0	15.84	-102	0.1	1.48		.100	13.61	" "
10:55	6.84	99.9	473.0	0.0	15.78	-103	0.1	1.43		.100	13.61	" "
11:00	6.72	99.9	440.0	0.0	15.89	-104	0.1	0.40		.100	13.61	" "
11:05	6.73	99.4	991.0	0.0	15.94	-114	0.1	0.41		.100	13.61	" "
11:10	6.69	99.9	618.0	0.0	15.96	-121	0.1	0.38		.100	13.61	" "

Analysis:
Groundwater
GRO
DRO
VOCs
SVOCs
Total Lead

Preservative
HCL
HCL
HCL

Signed 

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 08/08/12

Location: MW8
Name of Sampler: N. Hinsperger
Weather: Overcast

QA/QC
MS/MSD _____
Duplicate ✓
Blank _____

Depth to Water: 11.30
Depth to Bottom: _____

Sample Depth: _____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 080812-NH-MW8
080812-NH-FD1

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

Sample Method: Low Flow
Purge Start: 12:25
Sample Time: 13:30

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) v 0.2 LPM	W/L (Feet BTOC)	Water Quality/Description
12:31	6.47	0.91	157.0	0.0	16.46	-109	0.1	1.13		.100	11.50	CLEAR
12:36	6.50	0.090	135.0	0.0	16.80	-110	0.1	1.13		.100	11.55	" "
12:41	6.56	0.090	133.0	0.0	16.86	-111	0.1	0.30		.100	11.55	" "
12:46	6.45	0.090	131.0	0.0	16.90	-112	0.1	1.10		.100	11.55	" "
12:49	6.44	0.091	86.0	0.0	16.86	-110	0.1	1.13		.100	11.55	" "
12:54	6.43	0.090	63.0	0.0	16.46	-108	0.1	0.40		.100	11.55	

Analysis:

Groundwater
GRO
DRO
VOCs
SVOCs
Total Lead

✓
✓
✓
✓
✓

Preservative
HCL
HCL
HCL

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 08/07/12

Location: MW5
Name of Sampler: N. Hinspeter
Weather: Overcast

Depth to Water: 11.36
Depth to Bottom: _____

Sample Depth: _____

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- 080712-NH-MW5

Sample Method: Low Flow
Purge Start: 13:45
Sample Time: 14:30

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
13:50	6.56	99.9	-5.0	4.66	18.45	-109	0.1	0.41		.100	11.63	TURBID
13:55	6.52	99.9	-5.0	0.16	18.20	-95	0.1	0.41		.100	11.69	" "
14:00	6.46	99.9	519.0	0.0	17.68	-77	0.1	0.30		.100	11.69	" "
14:05	6.40	99.9	314.0	0.0	17.54	-71	0.0	0.70		.100	11.69	" "
14:10	6.50	99.9	296.0	0.0	17.62	-68	0.0	0.30		.100	11.69	" "
14:15	6.45	99.9	252.0	0.0	17.52	-65	0.0	0.36		.100	11.69	" "

Analysis:

Groundwater		**Preservative**
GRO	✓	HCL
DRO	✓	HCL
VOCs	✓	HCL
SVOCs	✓	
Total Lead	✓	

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 08/08/12

Location: MW2
Name of Sampler: N. Hingerage
Weather: Overcast

Depth to Water: 11.39
Depth to Bottom: _____

Sample Depth: _____

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- 080812 - NH - MW2

Sample Method: Low Flow
Purge Start: 8:50
Sample Time: 9:45

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
8:55	6.57	0.088	-5.0	1.60	16.62	-114	0.1	1.16		.100	11.65	TURBID
9:00	6.46	0.090	-5.0	0.0	16.76	-112	0.1	0.40		.100	11.81	" "
9:05	6.50	0.089	-5.0	0.0	16.57	-112	0.1	0.40		.100	11.81	" "
9:10	6.43	0.089	-5.0	0.0	16.83	-113	0.0	0.40		.100	11.81	" "
9:15	6.50	0.091	-5.0	0.0	17.10	-94	0.0	0.40		.105	11.81	" "

Analysis:

Groundwater		**Preservative**
GRO	✓	HCL
DRO	✓	HCL
VOCs	✓	HCL
SVOCs	✓	
Total Lead	✓	

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 08/07/12

Location: MW10
Name of Sampler: N. Hinsperger
Weather: Overcast

Depth to Water: 11.41
Depth to Bottom: _____

Sample Depth: _____

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- 080712 - NH - MW10

Sample Method: Low Flow
Purge Start: 9:14
Sample Time: 10:00

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
9:35	6.64	.270	0.2	4.59	17.78	-138	0.1	1.7		.100	11.41	CLEAR
9:40	6.53	.263	0.0	0.40	17.30	-146	0.1	1.7		.100	11.44	"
9:45	6.55	.261	0.0	0.0	17.31	-150	0.1	1.7		.100	11.45	"
9:50	6.59	.261	0.0	0.0	17.26	-151	0.1	1.7		.100	11.46	"
9:55	6.57	.258	0.0	0.0	17.30	-152	0.1	1.7		.100	11.47	"

Analysis:

Groundwater		**Preservative**
GRO	✓	HCL
DRO	✓	HCL
VOCs	✓	HCL
SVOCs	✓	
Total Lead	✓	

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 08/07/12

Location: MW3
Name of Sampler: N. Ninspeizen
Weather: Overcast

Depth to Water: 11.38
Depth to Bottom: _____

Sample Depth: _____

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- 080712 - NH - MW3

Sample Method: Low Flow
Purge Start: 10:55
Sample Time: 12:00

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
11:12	6.93	0.090	491.0	1.61	16.80	-133	0.0	0.4		.100	11.52	CLEAR
11:17	6.76	0.090	127.0	0.15	16.47	-129	0.0	0.4		.100	11.58	" "
11:22	6.58	0.090	39.4	0.0	16.45	-129	0.0	0.4		.100	11.61	" "
11:27	6.66	0.090	22.3	0.0	16.49	-128	0.0	0.4		.100	11.67	" "
11:32	6.55	0.090	21.6	0.0	16.60	-131	0.1	0.4		.100	11.72	" "
11:37	6.60	0.090	11.1	0.0	16.65	-130	0.1	0.4		.100	11.78	" "

Analysis:

Groundwater		**Preservative**
GRO	✓	HCL
DRO	✓	HCL
VOCs	✓	HCL
SVOCs	✓	
Total Lead	✓	

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 08/08/17

Location: MW 1
Name of Sampler: N. Hinspenge
Weather: Sunny

Depth to Water: 11.36
Depth to Bottom: _____

Sample Depth: _____

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- 080817-NH-MW1

Sample Method: Low Flow
Purge Start: 14:05
Sample Time: 14:43

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
14:12	6.72	99.9	-5.0	6.78	17.83	-131	0.0	1.15		.150	11.72	TURBID
14:17	6.68	99.9	-5.0	0.0	17.96	-123	0.0	1.15		.150	11.81	" "
14:22	6.63	99.9	-5.0	0.0	18.10	-129	0.0	1.15		.100	11.83	" "
14:27	6.61	99.9	-5.0	0.0	18.18	-126	0.0	1.14		.100	11.85	" "

Analysis:

Groundwater		**Preservative**
GRO	✓	HCL
DRO	✓	HCL
VOCs	✓	HCL
SVOCs	✓	
Total Lead		

Signed 

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 8/7/12

Location: ~~MW-8~~ MW-4
Name of Sampler: JS
Weather: Cloudy

Depth to Water: 11.69
Depth to Bottom: _____

Sample Depth: _____

QA/QC
MS/MSD _____
Duplicate _____
Blank _____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 080712-JS-MW4

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

_____

Sample Method: low flow
Purge Start: 1350
Sample Time: _____

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
1357	6.51	0.090	-5.0	1.61	18.29	-158	0.1	1.16			11.82	
1400	6.50	0.090	-5.0	0.98	18.31	-159	0.0	0.4			11.82	
1403	6.40	0.090	862.0	0.85	18.48	-159	0.0	0.4			11.82	
1406	6.37	0.090	393.0	0.68	18.05	-159	0.1	0.4			11.82	
1409	6.36	0.090	325.0	0.70	18.34	-157	0.1	0.4			11.82	
1412	6.40	0.090	421.0	0.66	18.09	-158	0.0	0.4			11.82	
1420	start to collect samples											

Analysis:

Groundwater		**Preservative**
GRO	✓	HCL
DRO	✓	HCL
VOCs	✓	HCL
SVOCs	✓	
Total Lead	✓	

Signed _____

Notes:

Former Tidewater Site
Seattle, WA

Water Quality Meter S/N: _____

Date: 8/7/12

Location: MW-6
Name of Sampler: JS
Weather: cloudy

Depth to Water: 12.18
Depth to Bottom: _____

Sample Depth: _____

QA/QC
MS/MSD _____
Duplicate _____
Blank _____

Sample IDs (GW-mmddyy-AA-XXX)

A Samplers Initials
x Location ID

GW- 080712-JS MW6

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

_____

Sample Method: low flow
Purge Start: 1048
Sample Time: 1110

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
1054	6.33	0.115	79.4	2.03	19.01	-183	0.1	0.7			12.20	clear
1057	6.34	0.116	79.6	0.95	18.19	-188	0.1	0.7			12.21	
1100	6.35	0.116	69.3	0.73	18.06	-191	0.1	0.7			12.21	↓
1103	6.35	0.115	64.2	0.67	17.94	-193	0.1	0.7			12.22	
1106	6.36	0.115	63.5	0.61	17.93	-191	0.1	0.7			12.22	clear
1109	6.36	0.115	63.3	0.59	17.90	-191	0.1	0.7			12.22	clear
1110	start to collect samples											

Analysis:

Groundwater		**Preservative**
GRO	✓	HCL
DRO	✓	HCL
VOCs	✓	HCL
SVOCs	✓	
Total Lead	✓	HNO3

Signed _____

Notes:

Field Calibration Sheet: HORIBA U-20XD series Multimeter

pH, Conductivity, Turbidity, Dissolved Oxygen, Temperature, Salinity, Total Dissolved Solids, and ORP

DATE	8/7/12				
PROJECT NAME					
PROJECT #		PHASE		TASK	
Unit Control #					

TIME 830

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
830	4.00	0.419	0.9	8.97	21.15

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 shee
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 tims 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 shee
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.

pH Calibration Buffer Temperature Adjustment Table

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** Jing Song **DATE** 8/7/12

Field Calibration Sheet: HORIBA U-20XD series Multimeter

pH, Conductivity, Turbidity, Dissolved Oxygen, Temperature, Salinity, Total Dissolved Solids, and ORP

DATE	08/07/12			TIME	8:15
PROJECT NAME	MLK - TIDEWATER				
PROJECT #	061992	PHASE	3012.3	TASK	
Unit Control #		TRS RENTAL			

PAGE 1 of 1

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
8:20	3.85	0.460	6.0	8.78	21.18

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 shee
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 tims 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 shee
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.

pH Calibration Buffer Temperature Adjustment Table				
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 [signature] NAME N. Hinsperger DATE 08/07/12

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES
1117 TACOMA AVE. SOUTH
TACOMA, WA. 98402-2005

SHIPPED TO (Laboratory Name): LANCASTER LABORATORIES

REFERENCE NUMBER: 061992

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: N. Hinsperger

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	NWTPH Dx	NWTPH Gx	Pb	PAH's	VOC's					REMARKS
	08/07	10:00	GW-080712-NH-MW10	WT	9	X	X	X	X	X					
	08/07	12:00	GW-080712-NH-MW3	WT	9	X	X	X	X	X					
	08/07	14:30	GW-080712-NH-MW5	WT	9	X	X	X	X	X					
	08/07	9:50	GW-080712-JS-MW7	WT	9	X	X	X	X	X					
	08/08	11:30	GW-080812-NH-MW9	WT	9	X	X	X	X	X					
	08/08	13:30	GW-080812-NH-MW8	WT	9	X	X	X	X	X					
	08/08		GW-080812-NH-FD1	WT	9	X	X	X	X	X					
	08/08		GW-080812-NH-MW2	WT	9	X	X	X	X	X					
	08/08	14:45	GW-080812-NH-MW1	WT	25	X	X	X	X	X					MS/MSD
	08/07	14:20	GW-080712-[illegible]-MW4	WT	9	X	X	X	X	X					
	08/07	11:10	GW-080712-JS-MW6	WT	9	X	X	X	X	X					
	08/08		TRIP BLANK	WT	4	X	X	X	X	X					

TOTAL NUMBER OF CONTAINERS | HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
① [signature]	DATE: 08/09/12 TIME: 12:00	①	DATE: TIME:
②	DATE: TIME:	②	DATE: TIME:
③	DATE: TIME:	③	DATE: TIME:

METHOD OF SHIPMENT: WAY BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: N. Hinsperger, J. Song

RECEIVED FOR LABORATORY BY:
DATE: TIME:

Nº CRA 20891

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

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

August 22, 2012

Project: 301233 Tidewater Seattle

Submittal Date: 08/10/2012
Group Number: 1328127
PO Number: 061992-2012.3
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LLI) #
GW-080712-NH-MW10 Water	6751353
GW-080712-NH-MW3 Water	6751354
GW-080712-NH-MW5 Water	6751355
GW-080712-JS-MW7 Water	6751356
GW-080812-NH-MW9 Water	6751357
GW-080812-NH-MW8 Water	6751358
GW-080812-NH-FD1 Water	6751359
GW-080812-NH-MW2 Water	6751360
GW-080812-NH-MW1 Water	6751361
GW-080812-NH-MW1_MS Water	6751362
GW-080812-NH-MW1_MSD Water	6751363
GW-080712-JS-MW4 Water	6751364
GW-080712-JS-MW6 Water	6751365
TRIP_BLANK Water	6751366

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	Conestoga-Rovers & Associates	Attn: Matt Davis

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COPY TO		
ELECTRONIC	Chevron	Attn: Anna Avina
COPY TO		
ELECTRONIC	Chevron c/o CRA	Attn: Report Contact
COPY TO		

Respectfully Submitted,

Jill M. Parker
Senior Specialist

(717) 556-7262

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Analysis Report

Sample Description: GW-080712-NH-MW10 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751353
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 10:00 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	11	6	1
10903	Benzene	71-43-2	1	0.5	1
10903	Bromobenzene	108-86-1	N.D.	1	1
10903	Bromochloromethane	74-97-5	N.D.	1	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	2-Butanone	78-93-3	N.D.	3	1
10903	n-Butylbenzene	104-51-8	N.D.	1	1
10903	sec-Butylbenzene	135-98-8	N.D.	1	1
10903	tert-Butylbenzene	98-06-6	N.D.	1	1
10903	Carbon Disulfide	75-15-0	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	2-Chlorotoluene	95-49-8	N.D.	1	1
10903	4-Chlorotoluene	106-43-4	N.D.	1	1
10903	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10903	Dibromomethane	74-95-3	N.D.	1	1
10903	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10903	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10903	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10903	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	2	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	1,3-Dichloropropane	142-28-9	N.D.	1	1
10903	2,2-Dichloropropane	594-20-7	N.D.	1	1
10903	1,1-Dichloropropene	563-58-6	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.5	1
10903	Hexachlorobutadiene	87-68-3	N.D.	2	1
10903	2-Hexanone	591-78-6	N.D.	3	1
10903	Isopropylbenzene	98-82-8	4	1	1
10903	p-Isopropyltoluene	99-87-6	N.D.	1	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	Naphthalene	91-20-3	N.D.	1	1
10903	n-Propylbenzene	103-65-1	10	1	1
10903	Styrene	100-42-5	N.D.	1	1
10903	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-080712-NH-MW10 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751353
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 10:00 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.5	1
10903	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10903	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10903	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10903	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10903	Vinyl Chloride	75-01-4	36	1	1
10903	m+p-Xylene	179601-23-1	1	0.5	1
10903	o-Xylene	95-47-6	N.D.	0.5	1
10903	Xylene (Total)	1330-20-7	1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.0099	1
08357	Acenaphthylene	208-96-8	N.D.	0.0099	1
08357	Anthracene	120-12-7	N.D.	0.0099	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0099	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0099	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0099	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.0099	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0099	1
08357	Chrysene	218-01-9	N.D.	0.0099	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0099	1
08357	Fluoranthene	206-44-0	N.D.	0.0099	1
08357	Fluorene	86-73-7	N.D.	0.0099	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0099	1
08357	Naphthalene	91-20-3	0.18	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	N.D.	0.0099	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	110	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	130	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	N.D.	0.034	1

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Analysis Report

Sample Description: GW-080712-NH-MW10 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751353
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 10:00 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS10

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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/17/2012 22:50	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/17/2012 22:50	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/13/2012 19:12	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 15:08	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 15:08	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122250019A	08/20/2012 22:52	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122250019A	08/14/2012 10:25	Denise L Trimby	1
06035	Lead	SW-846 6020	1	122246050003A	08/14/2012 18:09	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	122246050003	08/13/2012 08:40	James L Mertz	1

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Analysis Report

Sample Description: GW-080712-NH-MW3 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751354
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 12:00 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	N.D.	12	2
10903	Benzene	71-43-2	N.D.	1	2
10903	Bromobenzene	108-86-1	N.D.	2	2
10903	Bromochloromethane	74-97-5	N.D.	2	2
10903	Bromodichloromethane	75-27-4	N.D.	2	2
10903	Bromoform	75-25-2	N.D.	2	2
10903	Bromomethane	74-83-9	N.D.	2	2
10903	2-Butanone	78-93-3	N.D.	6	2
10903	n-Butylbenzene	104-51-8	6	2	2
10903	sec-Butylbenzene	135-98-8	6	2	2
10903	tert-Butylbenzene	98-06-6	N.D.	2	2
10903	Carbon Disulfide	75-15-0	N.D.	2	2
10903	Carbon Tetrachloride	56-23-5	N.D.	2	2
10903	Chlorobenzene	108-90-7	N.D.	2	2
10903	Chloroethane	75-00-3	N.D.	2	2
10903	Chloroform	67-66-3	N.D.	2	2
10903	Chloromethane	74-87-3	N.D.	2	2
10903	2-Chlorotoluene	95-49-8	N.D.	2	2
10903	4-Chlorotoluene	106-43-4	N.D.	2	2
10903	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	4	2
10903	Dibromochloromethane	124-48-1	N.D.	2	2
10903	1,2-Dibromoethane	106-93-4	N.D.	1	2
10903	Dibromomethane	74-95-3	N.D.	2	2
10903	1,2-Dichlorobenzene	95-50-1	N.D.	2	2
10903	1,3-Dichlorobenzene	541-73-1	N.D.	2	2
10903	1,4-Dichlorobenzene	106-46-7	N.D.	2	2
10903	Dichlorodifluoromethane	75-71-8	N.D.	4	2
10903	1,1-Dichloroethane	75-34-3	N.D.	2	2
10903	1,2-Dichloroethane	107-06-2	N.D.	1	2
10903	1,1-Dichloroethene	75-35-4	N.D.	2	2
10903	cis-1,2-Dichloroethene	156-59-2	5	2	2
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	2	2
10903	1,2-Dichloropropane	78-87-5	N.D.	2	2
10903	1,3-Dichloropropane	142-28-9	N.D.	2	2
10903	2,2-Dichloropropane	594-20-7	N.D.	2	2
10903	1,1-Dichloropropene	563-58-6	N.D.	2	2
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	2	2
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	2	2
10903	Ethylbenzene	100-41-4	140	1	2
10903	Hexachlorobutadiene	87-68-3	N.D.	4	2
10903	2-Hexanone	591-78-6	N.D.	6	2
10903	Isopropylbenzene	98-82-8	33	2	2
10903	p-Isopropyltoluene	99-87-6	2	2	2
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	2
10903	4-Methyl-2-pentanone	108-10-1	N.D.	6	2
10903	Methylene Chloride	75-09-2	N.D.	4	2
10903	Naphthalene	91-20-3	71	2	2
10903	n-Propylbenzene	103-65-1	86	2	2
10903	Styrene	100-42-5	N.D.	2	2
10903	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	2	2

Sample Description: GW-080712-NH-MW3 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751354
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 12:00 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2	2
10903	Tetrachloroethene	127-18-4	N.D.	2	2
10903	Toluene	108-88-3	N.D.	1	2
10903	1,2,3-Trichlorobenzene	87-61-6	N.D.	2	2
10903	1,2,4-Trichlorobenzene	120-82-1	N.D.	2	2
10903	1,1,1-Trichloroethane	71-55-6	N.D.	2	2
10903	1,1,2-Trichloroethane	79-00-5	N.D.	2	2
10903	Trichloroethene	79-01-6	N.D.	2	2
10903	Trichlorofluoromethane	75-69-4	N.D.	4	2
10903	1,2,3-Trichloropropane	96-18-4	N.D.	2	2
10903	1,2,4-Trimethylbenzene	95-63-6	830	20	20
10903	1,3,5-Trimethylbenzene	108-67-8	140	2	2
10903	Vinyl Chloride	75-01-4	N.D.	2	2
10903	m+p-Xylene	179601-23-1	560	1	2
10903	o-Xylene	95-47-6	50	1	2
10903	Xylene (Total)	1330-20-7	610	1	2
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.032	0.0095	1
08357	Acenaphthylene	208-96-8	N.D.	0.0095	1
08357	Anthracene	120-12-7	0.053	0.0095	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0095	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0095	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0095	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.0095	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0095	1
08357	Chrysene	218-01-9	N.D.	0.0095	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0095	1
08357	Fluoranthene	206-44-0	N.D.	0.0095	1
08357	Fluorene	86-73-7	0.067	0.0095	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0095	1
08357	Naphthalene	91-20-3	55	0.57	20
08357	Phenanthrene	85-01-8	0.035	0.028	1
08357	Pyrene	129-00-0	N.D.	0.0095	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	8,100	250	5
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	290	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.98	0.034	1

Sample Description: GW-080712-NH-MW3 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751354
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 12:00 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS03

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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/17/2012 23:11	Sarah A Guill	2
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/17/2012 23:32	Sarah A Guill	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/17/2012 23:11	Sarah A Guill	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y122303AA	08/17/2012 23:32	Sarah A Guill	20
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/13/2012 19:44	Chad A Moline	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/14/2012 05:53	Mark A Clark	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 18:26	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 18:26	Marie D John	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122250019A	08/20/2012 23:15	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122250019A	08/14/2012 10:25	Denise L Trimby	1
06035	Lead	SW-846 6020	1	122246050003A	08/14/2012 18:10	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	122246050003	08/13/2012 08:40	James L Mertz	1

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Analysis Report

Sample Description: GW-080712-NH-MW5 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751355
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 14:30 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	N.D.	6	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromobenzene	108-86-1	N.D.	1	1
10903	Bromochloromethane	74-97-5	N.D.	1	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	2-Butanone	78-93-3	N.D.	3	1
10903	n-Butylbenzene	104-51-8	2	1	1
10903	sec-Butylbenzene	135-98-8	2	1	1
10903	tert-Butylbenzene	98-06-6	N.D.	1	1
10903	Carbon Disulfide	75-15-0	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	2-Chlorotoluene	95-49-8	N.D.	1	1
10903	4-Chlorotoluene	106-43-4	N.D.	1	1
10903	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10903	Dibromomethane	74-95-3	N.D.	1	1
10903	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10903	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10903	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10903	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	1,3-Dichloropropane	142-28-9	N.D.	1	1
10903	2,2-Dichloropropane	594-20-7	N.D.	1	1
10903	1,1-Dichloropropene	563-58-6	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	11	0.5	1
10903	Hexachlorobutadiene	87-68-3	N.D.	2	1
10903	2-Hexanone	591-78-6	N.D.	3	1
10903	Isopropylbenzene	98-82-8	13	1	1
10903	p-Isopropyltoluene	99-87-6	N.D.	1	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	Naphthalene	91-20-3	21	1	1
10903	n-Propylbenzene	103-65-1	32	1	1
10903	Styrene	100-42-5	N.D.	1	1
10903	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-080712-NH-MW5 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751355
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 14:30 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.5	1
10903	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10903	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10903	1,2,4-Trimethylbenzene	95-63-6	33	1	1
10903	1,3,5-Trimethylbenzene	108-67-8	12	1	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	m+p-Xylene	179601-23-1	21	0.5	1
10903	o-Xylene	95-47-6	0.6	0.5	1
10903	Xylene (Total)	1330-20-7	22	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.11	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	0.035	0.010	1
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(g,h,i)perylene	191-24-2	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	Fluoranthene	206-44-0	0.035	0.010	1
08357	Fluorene	86-73-7	0.095	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	Naphthalene	91-20-3	4.4	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	0.030	0.010	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	610	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	190	28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	5.1	0.034	1

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Analysis Report

Sample Description: GW-080712-NH-MW5 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751355
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 14:30 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS05

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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/17/2012 23:53	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/17/2012 23:53	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/13/2012 20:17	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 15:30	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 15:30	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122250019A	08/20/2012 23:38	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122250019A	08/14/2012 10:25	Denise L Trimby	1
06035	Lead	SW-846 6020	1	122246050003A	08/14/2012 18:12	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	122246050003	08/13/2012 08:40	James L Mertz	1

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Analysis Report

Sample Description: GW-080712-JS-MW7 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751356
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 09:50 by JS

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	N.D.	6	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromobenzene	108-86-1	N.D.	1	1
10903	Bromochloromethane	74-97-5	N.D.	1	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	2-Butanone	78-93-3	N.D.	3	1
10903	n-Butylbenzene	104-51-8	N.D.	1	1
10903	sec-Butylbenzene	135-98-8	N.D.	1	1
10903	tert-Butylbenzene	98-06-6	N.D.	1	1
10903	Carbon Disulfide	75-15-0	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	2-Chlorotoluene	95-49-8	N.D.	1	1
10903	4-Chlorotoluene	106-43-4	N.D.	1	1
10903	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10903	Dibromomethane	74-95-3	N.D.	1	1
10903	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10903	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10903	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10903	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	6	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	1,3-Dichloropropane	142-28-9	N.D.	1	1
10903	2,2-Dichloropropane	594-20-7	N.D.	1	1
10903	1,1-Dichloropropene	563-58-6	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.5	1
10903	Hexachlorobutadiene	87-68-3	N.D.	2	1
10903	2-Hexanone	591-78-6	N.D.	3	1
10903	Isopropylbenzene	98-82-8	N.D.	1	1
10903	p-Isopropyltoluene	99-87-6	N.D.	1	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	Naphthalene	91-20-3	N.D.	1	1
10903	n-Propylbenzene	103-65-1	N.D.	1	1
10903	Styrene	100-42-5	N.D.	1	1
10903	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-080712-JS-MW7 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751356
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 09:50 by JS

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.5	1
10903	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10903	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10903	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10903	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10903	Vinyl Chloride	75-01-4	4	1	1
10903	m+p-Xylene	179601-23-1	N.D.	0.5	1
10903	o-Xylene	95-47-6	N.D.	0.5	1
10903	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.0095	1
08357	Acenaphthylene	208-96-8	N.D.	0.0095	1
08357	Anthracene	120-12-7	0.30	0.0095	1
08357	Benzo(a)anthracene	56-55-3	0.040	0.0095	1
08357	Benzo(a)pyrene	50-32-8	0.015	0.0095	1
08357	Benzo(b)fluoranthene	205-99-2	0.027	0.0095	1
08357	Benzo(g,h,i)perylene	191-24-2	0.011	0.0095	1
08357	Benzo(k)fluoranthene	207-08-9	0.014	0.0095	1
08357	Chrysene	218-01-9	0.097	0.0095	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0095	1
08357	Fluoranthene	206-44-0	0.59	0.0095	1
08357	Fluorene	86-73-7	N.D.	0.0095	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0095	1
08357	Naphthalene	91-20-3	0.083	0.028	1
08357	Phenanthrene	85-01-8	N.D.	0.028	1
08357	Pyrene	129-00-0	0.53	0.0095	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	31.7	0.034	1

Sample Description: GW-080712-JS-MW7 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751356
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 09:50 by JS

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS07

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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 00:14	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/18/2012 00:14	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/13/2012 20:49	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 15:52	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 15:52	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122250019A	08/21/2012 00:01	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122250019A	08/14/2012 10:25	Denise L Trimby	1
06035	Lead	SW-846 6020	1	122246050003A	08/14/2012 18:14	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	122246050003	08/13/2012 08:40	James L Mertz	1

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Analysis Report

Sample Description: GW-080812-NH-MW9 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751357
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 11:30 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	N.D.	6	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromobenzene	108-86-1	N.D.	1	1
10903	Bromochloromethane	74-97-5	N.D.	1	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	2-Butanone	78-93-3	N.D.	3	1
10903	n-Butylbenzene	104-51-8	N.D.	1	1
10903	sec-Butylbenzene	135-98-8	N.D.	1	1
10903	tert-Butylbenzene	98-06-6	N.D.	1	1
10903	Carbon Disulfide	75-15-0	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	2-Chlorotoluene	95-49-8	N.D.	1	1
10903	4-Chlorotoluene	106-43-4	N.D.	1	1
10903	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10903	Dibromomethane	74-95-3	N.D.	1	1
10903	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10903	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10903	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10903	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	140	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	1	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	1,3-Dichloropropane	142-28-9	N.D.	1	1
10903	2,2-Dichloropropane	594-20-7	N.D.	1	1
10903	1,1-Dichloropropene	563-58-6	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.5	1
10903	Hexachlorobutadiene	87-68-3	N.D.	2	1
10903	2-Hexanone	591-78-6	N.D.	3	1
10903	Isopropylbenzene	98-82-8	N.D.	1	1
10903	p-Isopropyltoluene	99-87-6	N.D.	1	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	Naphthalene	91-20-3	N.D.	1	1
10903	n-Propylbenzene	103-65-1	N.D.	1	1
10903	Styrene	100-42-5	N.D.	1	1
10903	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-080812-NH-MW9 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751357
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 11:30 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	100	0.8	1
10903	Toluene	108-88-3	N.D.	0.5	1
10903	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10903	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	130	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10903	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10903	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10903	Vinyl Chloride	75-01-4	8	1	1
10903	m+p-Xylene	179601-23-1	N.D.	0.5	1
10903	o-Xylene	95-47-6	N.D.	0.5	1
10903	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
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(g,h,i)perylene	191-24-2	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	Fluoranthene	206-44-0	N.D.	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	Naphthalene	91-20-3	0.059	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	N.D.	0.010	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.87	0.034	1

Sample Description: GW-080812-NH-MW9 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751357
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 11:30 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS09

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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 00:34	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/18/2012 00:34	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/13/2012 21:22	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 16:36	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 16:36	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122250019A	08/20/2012 20:12	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122250019A	08/14/2012 10:25	Denise L Trimby	1
06035	Lead	SW-846 6020	1	122246050003A	08/14/2012 18:16	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	122246050003	08/13/2012 08:40	James L Mertz	1

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Analysis Report

Sample Description: GW-080812-NH-MW8 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751358
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 13:30 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	N.D.	12	2
10903	Benzene	71-43-2	N.D.	1	2
10903	Bromobenzene	108-86-1	N.D.	2	2
10903	Bromochloromethane	74-97-5	N.D.	2	2
10903	Bromodichloromethane	75-27-4	N.D.	2	2
10903	Bromoform	75-25-2	N.D.	2	2
10903	Bromomethane	74-83-9	N.D.	2	2
10903	2-Butanone	78-93-3	N.D.	6	2
10903	n-Butylbenzene	104-51-8	8	2	2
10903	sec-Butylbenzene	135-98-8	6	2	2
10903	tert-Butylbenzene	98-06-6	N.D.	2	2
10903	Carbon Disulfide	75-15-0	N.D.	2	2
10903	Carbon Tetrachloride	56-23-5	N.D.	2	2
10903	Chlorobenzene	108-90-7	N.D.	2	2
10903	Chloroethane	75-00-3	N.D.	2	2
10903	Chloroform	67-66-3	N.D.	2	2
10903	Chloromethane	74-87-3	N.D.	2	2
10903	2-Chlorotoluene	95-49-8	N.D.	2	2
10903	4-Chlorotoluene	106-43-4	N.D.	2	2
10903	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	4	2
10903	Dibromochloromethane	124-48-1	N.D.	2	2
10903	1,2-Dibromoethane	106-93-4	N.D.	1	2
10903	Dibromomethane	74-95-3	N.D.	2	2
10903	1,2-Dichlorobenzene	95-50-1	N.D.	2	2
10903	1,3-Dichlorobenzene	541-73-1	N.D.	2	2
10903	1,4-Dichlorobenzene	106-46-7	N.D.	2	2
10903	Dichlorodifluoromethane	75-71-8	N.D.	4	2
10903	1,1-Dichloroethane	75-34-3	N.D.	2	2
10903	1,2-Dichloroethane	107-06-2	N.D.	1	2
10903	1,1-Dichloroethene	75-35-4	N.D.	2	2
10903	cis-1,2-Dichloroethene	156-59-2	3	2	2
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	2	2
10903	1,2-Dichloropropane	78-87-5	N.D.	2	2
10903	1,3-Dichloropropane	142-28-9	N.D.	2	2
10903	2,2-Dichloropropane	594-20-7	N.D.	2	2
10903	1,1-Dichloropropene	563-58-6	N.D.	2	2
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	2	2
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	2	2
10903	Ethylbenzene	100-41-4	92	1	2
10903	Hexachlorobutadiene	87-68-3	N.D.	4	2
10903	2-Hexanone	591-78-6	N.D.	6	2
10903	Isopropylbenzene	98-82-8	22	2	2
10903	p-Isopropyltoluene	99-87-6	4	2	2
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	2
10903	4-Methyl-2-pentanone	108-10-1	N.D.	6	2
10903	Methylene Chloride	75-09-2	N.D.	4	2
10903	Naphthalene	91-20-3	73	2	2
10903	n-Propylbenzene	103-65-1	49	2	2
10903	Styrene	100-42-5	N.D.	2	2
10903	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	2	2

Sample Description: GW-080812-NH-MW8 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751358
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 13:30 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2	2
10903	Tetrachloroethene	127-18-4	N.D.	2	2
10903	Toluene	108-88-3	N.D.	1	2
10903	1,2,3-Trichlorobenzene	87-61-6	N.D.	2	2
10903	1,2,4-Trichlorobenzene	120-82-1	N.D.	2	2
10903	1,1,1-Trichloroethane	71-55-6	N.D.	2	2
10903	1,1,2-Trichloroethane	79-00-5	N.D.	2	2
10903	Trichloroethene	79-01-6	N.D.	2	2
10903	Trichlorofluoromethane	75-69-4	N.D.	4	2
10903	1,2,3-Trichloropropane	96-18-4	N.D.	2	2
10903	1,2,4-Trimethylbenzene	95-63-6	910	20	20
10903	1,3,5-Trimethylbenzene	108-67-8	190	2	2
10903	Vinyl Chloride	75-01-4	N.D.	2	2
10903	m+p-Xylene	179601-23-1	690	1	2
10903	o-Xylene	95-47-6	160	1	2
10903	Xylene (Total)	1330-20-7	850	1	2
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.070	0.0096	1
08357	Acenaphthylene	208-96-8	0.020	0.0096	1
08357	Anthracene	120-12-7	0.016	0.0096	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0096	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0096	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0096	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.0096	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0096	1
08357	Chrysene	218-01-9	N.D.	0.0096	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0096	1
08357	Fluoranthene	206-44-0	N.D.	0.0096	1
08357	Fluorene	86-73-7	0.14	0.0096	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0096	1
08357	Naphthalene	91-20-3	56	0.58	20
08357	Phenanthrene	85-01-8	0.046	0.029	1
08357	Pyrene	129-00-0	N.D.	0.0096	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	9,300	250	5
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	290	28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	3.4	0.034	1

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Analysis Report

Sample Description: GW-080812-NH-MW8 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751358
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 13:30 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS08

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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 00:54	Sarah A Guill	2
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 01:15	Sarah A Guill	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/18/2012 00:54	Sarah A Guill	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y122303AA	08/18/2012 01:15	Sarah A Guill	20
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/13/2012 21:54	Chad A Moline	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/14/2012 06:26	Mark A Clark	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 18:47	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 18:47	Marie D John	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122250019A	08/20/2012 20:34	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122250019A	08/14/2012 10:25	Denise L Trimby	1
06035	Lead	SW-846 6020	1	122246050003A	08/14/2012 18:17	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	122246050003	08/13/2012 08:40	James L Mertz	1

Sample Description: GW-080812-NH-FD1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751359
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLSFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	N.D.	12	2
10903	Benzene	71-43-2	N.D.	1	2
10903	Bromobenzene	108-86-1	N.D.	2	2
10903	Bromochloromethane	74-97-5	N.D.	2	2
10903	Bromodichloromethane	75-27-4	N.D.	2	2
10903	Bromoform	75-25-2	N.D.	2	2
10903	Bromomethane	74-83-9	N.D.	2	2
10903	2-Butanone	78-93-3	N.D.	6	2
10903	n-Butylbenzene	104-51-8	7	2	2
10903	sec-Butylbenzene	135-98-8	5	2	2
10903	tert-Butylbenzene	98-06-6	N.D.	2	2
10903	Carbon Disulfide	75-15-0	N.D.	2	2
10903	Carbon Tetrachloride	56-23-5	N.D.	2	2
10903	Chlorobenzene	108-90-7	N.D.	2	2
10903	Chloroethane	75-00-3	N.D.	2	2
10903	Chloroform	67-66-3	N.D.	2	2
10903	Chloromethane	74-87-3	N.D.	2	2
10903	2-Chlorotoluene	95-49-8	N.D.	2	2
10903	4-Chlorotoluene	106-43-4	N.D.	2	2
10903	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	4	2
10903	Dibromochloromethane	124-48-1	N.D.	2	2
10903	1,2-Dibromoethane	106-93-4	N.D.	1	2
10903	Dibromomethane	74-95-3	N.D.	2	2
10903	1,2-Dichlorobenzene	95-50-1	N.D.	2	2
10903	1,3-Dichlorobenzene	541-73-1	N.D.	2	2
10903	1,4-Dichlorobenzene	106-46-7	N.D.	2	2
10903	Dichlorodifluoromethane	75-71-8	N.D.	4	2
10903	1,1-Dichloroethane	75-34-3	N.D.	2	2
10903	1,2-Dichloroethane	107-06-2	N.D.	1	2
10903	1,1-Dichloroethene	75-35-4	N.D.	2	2
10903	cis-1,2-Dichloroethene	156-59-2	3	2	2
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	2	2
10903	1,2-Dichloropropane	78-87-5	N.D.	2	2
10903	1,3-Dichloropropane	142-28-9	N.D.	2	2
10903	2,2-Dichloropropane	594-20-7	N.D.	2	2
10903	1,1-Dichloropropene	563-58-6	N.D.	2	2
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	2	2
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	2	2
10903	Ethylbenzene	100-41-4	83	1	2
10903	Hexachlorobutadiene	87-68-3	N.D.	4	2
10903	2-Hexanone	591-78-6	N.D.	6	2
10903	Isopropylbenzene	98-82-8	20	2	2
10903	p-Isopropyltoluene	99-87-6	3	2	2
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	2
10903	4-Methyl-2-pentanone	108-10-1	N.D.	6	2
10903	Methylene Chloride	75-09-2	N.D.	4	2
10903	Naphthalene	91-20-3	67	2	2
10903	n-Propylbenzene	103-65-1	44	2	2
10903	Styrene	100-42-5	N.D.	2	2
10903	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	2	2

Sample Description: GW-080812-NH-FD1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751359
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLSFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2	2
10903	Tetrachloroethene	127-18-4	N.D.	2	2
10903	Toluene	108-88-3	N.D.	1	2
10903	1,2,3-Trichlorobenzene	87-61-6	N.D.	2	2
10903	1,2,4-Trichlorobenzene	120-82-1	N.D.	2	2
10903	1,1,1-Trichloroethane	71-55-6	N.D.	2	2
10903	1,1,2-Trichloroethane	79-00-5	N.D.	2	2
10903	Trichloroethene	79-01-6	N.D.	2	2
10903	Trichlorofluoromethane	75-69-4	N.D.	4	2
10903	1,2,3-Trichloropropane	96-18-4	N.D.	2	2
10903	1,2,4-Trimethylbenzene	95-63-6	680	20	20
10903	1,3,5-Trimethylbenzene	108-67-8	140	2	2
10903	Vinyl Chloride	75-01-4	N.D.	2	2
10903	m+p-Xylene	179601-23-1	570	1	2
10903	o-Xylene	95-47-6	140	1	2
10903	Xylene (Total)	1330-20-7	710	1	2
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.071	0.0099	1
08357	Acenaphthylene	208-96-8	0.017	0.0099	1
08357	Anthracene	120-12-7	0.014	0.0099	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0099	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0099	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0099	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.0099	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0099	1
08357	Chrysene	218-01-9	N.D.	0.0099	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0099	1
08357	Fluoranthene	206-44-0	N.D.	0.0099	1
08357	Fluorene	86-73-7	0.14	0.0099	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0099	1
08357	Naphthalene	91-20-3	44	0.60	20
08357	Phenanthrene	85-01-8	0.052	0.030	1
08357	Pyrene	129-00-0	N.D.	0.0099	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	11,000	250	5
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	240	28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	3.6	0.034	1

Sample Description: GW-080812-NH-FD1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751359
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLSFD

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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 01:36	Sarah A Guill	2
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 01:56	Sarah A Guill	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/18/2012 01:36	Sarah A Guill	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y122303AA	08/18/2012 01:56	Sarah A Guill	20
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/13/2012 22:27	Chad A Moline	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/14/2012 06:58	Mark A Clark	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 19:09	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 19:09	Marie D John	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122250019A	08/20/2012 20:58	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122250019A	08/14/2012 10:25	Denise L Trimby	1
06035	Lead	SW-846 6020	1	122246050003A	08/14/2012 18:19	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	122246050003	08/13/2012 08:40	James L Mertz	1

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Analysis Report

Sample Description: GW-080812-NH-MW2 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751360
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 09:45 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	N.D.	6	1
10903	Benzene	71-43-2	0.9	0.5	1
10903	Bromobenzene	108-86-1	N.D.	1	1
10903	Bromochloromethane	74-97-5	N.D.	1	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	2-Butanone	78-93-3	N.D.	3	1
10903	n-Butylbenzene	104-51-8	3	1	1
10903	sec-Butylbenzene	135-98-8	4	1	1
10903	tert-Butylbenzene	98-06-6	N.D.	1	1
10903	Carbon Disulfide	75-15-0	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	2-Chlorotoluene	95-49-8	N.D.	1	1
10903	4-Chlorotoluene	106-43-4	N.D.	1	1
10903	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10903	Dibromomethane	74-95-3	N.D.	1	1
10903	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10903	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10903	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10903	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	1,3-Dichloropropane	142-28-9	N.D.	1	1
10903	2,2-Dichloropropane	594-20-7	N.D.	1	1
10903	1,1-Dichloropropene	563-58-6	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.5	1
10903	Hexachlorobutadiene	87-68-3	N.D.	2	1
10903	2-Hexanone	591-78-6	N.D.	3	1
10903	Isopropylbenzene	98-82-8	24	1	1
10903	p-Isopropyltoluene	99-87-6	N.D.	1	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	Naphthalene	91-20-3	N.D.	1	1
10903	n-Propylbenzene	103-65-1	48	1	1
10903	Styrene	100-42-5	N.D.	1	1
10903	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-080812-NH-MW2 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751360
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 09:45 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.5	1
10903	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10903	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10903	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10903	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	m+p-Xylene	179601-23-1	0.5	0.5	1
10903	o-Xylene	95-47-6	N.D.	0.5	1
10903	Xylene (Total)	1330-20-7	0.5	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.44	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	0.081	0.010	1
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(g,h,i)perylene	191-24-2	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	Fluoranthene	206-44-0	0.027	0.010	1
08357	Fluorene	86-73-7	0.35	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	Naphthalene	91-20-3	0.52	0.030	1
08357	Phenanthrene	85-01-8	0.29	0.030	1
08357	Pyrene	129-00-0	0.015	0.010	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	670	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	160	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	8.3	0.034	1

Sample Description: GW-080812-NH-MW2 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751360
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 09:45 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS02

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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 02:17	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/18/2012 02:17	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/13/2012 23:00	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 16:58	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 16:58	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122250019A	08/20/2012 21:20	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122250019A	08/14/2012 10:25	Denise L Trimby	1
06035	Lead	SW-846 6020	1	122246050003A	08/14/2012 18:25	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	122246050003	08/13/2012 08:40	James L Mertz	1

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Analysis Report

Sample Description: GW-080812-NH-MW1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751361
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 14:45 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	N.D.	6	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromobenzene	108-86-1	N.D.	1	1
10903	Bromochloromethane	74-97-5	N.D.	1	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	2-Butanone	78-93-3	N.D.	3	1
10903	n-Butylbenzene	104-51-8	N.D.	1	1
10903	sec-Butylbenzene	135-98-8	N.D.	1	1
10903	tert-Butylbenzene	98-06-6	N.D.	1	1
10903	Carbon Disulfide	75-15-0	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	2-Chlorotoluene	95-49-8	N.D.	1	1
10903	4-Chlorotoluene	106-43-4	N.D.	1	1
10903	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10903	Dibromomethane	74-95-3	N.D.	1	1
10903	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10903	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10903	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10903	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	26	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	1,3-Dichloropropane	142-28-9	N.D.	1	1
10903	2,2-Dichloropropane	594-20-7	N.D.	1	1
10903	1,1-Dichloropropene	563-58-6	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.5	1
10903	Hexachlorobutadiene	87-68-3	N.D.	2	1
10903	2-Hexanone	591-78-6	N.D.	3	1
10903	Isopropylbenzene	98-82-8	N.D.	1	1
10903	p-Isopropyltoluene	99-87-6	N.D.	1	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	Naphthalene	91-20-3	N.D.	1	1
10903	n-Propylbenzene	103-65-1	N.D.	1	1
10903	Styrene	100-42-5	N.D.	1	1
10903	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-080812-NH-MW1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751361
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 14:45 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	5	0.8	1
10903	Toluene	108-88-3	N.D.	0.5	1
10903	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10903	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	9	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10903	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10903	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10903	Vinyl Chloride	75-01-4	1	1	1
10903	m+p-Xylene	179601-23-1	N.D.	0.5	1
10903	o-Xylene	95-47-6	N.D.	0.5	1
10903	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.0095	1
08357	Acenaphthylene	208-96-8	N.D.	0.0095	1
08357	Anthracene	120-12-7	N.D.	0.0095	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0095	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0095	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0095	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.0095	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0095	1
08357	Chrysene	218-01-9	N.D.	0.0095	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0095	1
08357	Fluoranthene	206-44-0	N.D.	0.0095	1
08357	Fluorene	86-73-7	N.D.	0.0095	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0095	1
08357	Naphthalene	91-20-3	0.052	0.028	1
08357	Phenanthrene	85-01-8	N.D.	0.028	1
08357	Pyrene	129-00-0	N.D.	0.0095	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.32	0.034	1

Sample Description: GW-080812-NH-MW1 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751361
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 14:45 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS01

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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 02:38	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/18/2012 02:38	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/13/2012 14:19	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 17:20	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 17:20	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122250019A	08/20/2012 21:43	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122250019A	08/14/2012 10:25	Denise L Trimby	1
06035	Lead	SW-846 6020	1	122246050003A	08/14/2012 18:26	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	122246050003	08/13/2012 08:40	James L Mertz	1

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Analysis Report

Sample Description: **GW-080812-NH-MW1_MS Water**
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751362
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 14:45 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	140	6	1
10903	Benzene	71-43-2	21	0.5	1
10903	Bromobenzene	108-86-1	20	1	1
10903	Bromochloromethane	74-97-5	19	1	1
10903	Bromodichloromethane	75-27-4	20	1	1
10903	Bromoform	75-25-2	15	1	1
10903	Bromomethane	74-83-9	16	1	1
10903	2-Butanone	78-93-3	140	3	1
10903	n-Butylbenzene	104-51-8	20	1	1
10903	sec-Butylbenzene	135-98-8	21	1	1
10903	tert-Butylbenzene	98-06-6	20	1	1
10903	Carbon Disulfide	75-15-0	18	1	1
10903	Carbon Tetrachloride	56-23-5	22	1	1
10903	Chlorobenzene	108-90-7	20	0.8	1
10903	Chloroethane	75-00-3	16	1	1
10903	Chloroform	67-66-3	20	0.8	1
10903	Chloromethane	74-87-3	16	1	1
10903	2-Chlorotoluene	95-49-8	20	1	1
10903	4-Chlorotoluene	106-43-4	20	1	1
10903	1,2-Dibromo-3-chloropropane	96-12-8	18	2	1
10903	Dibromochloromethane	124-48-1	19	1	1
10903	1,2-Dibromoethane	106-93-4	20	0.5	1
10903	Dibromomethane	74-95-3	20	1	1
10903	1,2-Dichlorobenzene	95-50-1	20	1	1
10903	1,3-Dichlorobenzene	541-73-1	19	1	1
10903	1,4-Dichlorobenzene	106-46-7	20	1	1
10903	Dichlorodifluoromethane	75-71-8	17	2	1
10903	1,1-Dichloroethane	75-34-3	21	1	1
10903	1,2-Dichloroethane	107-06-2	20	0.5	1
10903	1,1-Dichloroethene	75-35-4	22	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	49	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	22	0.8	1
10903	1,2-Dichloropropane	78-87-5	20	1	1
10903	1,3-Dichloropropane	142-28-9	20	1	1
10903	2,2-Dichloropropane	594-20-7	21	1	1
10903	1,1-Dichloropropene	563-58-6	22	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	19	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	18	1	1
10903	Ethylbenzene	100-41-4	21	0.5	1
10903	Hexachlorobutadiene	87-68-3	19	2	1
10903	2-Hexanone	591-78-6	89	3	1
10903	Isopropylbenzene	98-82-8	21	1	1
10903	p-Isopropyltoluene	99-87-6	20	1	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	1
10903	4-Methyl-2-pentanone	108-10-1	90	3	1
10903	Methylene Chloride	75-09-2	20	2	1
10903	Naphthalene	91-20-3	19	1	1
10903	n-Propylbenzene	103-65-1	21	1	1
10903	Styrene	100-42-5	19	1	1
10903	1,1,1,2-Tetrachloroethane	630-20-6	20	1	1

Sample Description: GW-080812-NH-MW1_MS Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751362
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 14:45 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

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CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	20	1	1
10903	Tetrachloroethene	127-18-4	26	0.8	1
10903	Toluene	108-88-3	21	0.5	1
10903	1,2,3-Trichlorobenzene	87-61-6	18	1	1
10903	1,2,4-Trichlorobenzene	120-82-1	19	1	1
10903	1,1,1-Trichloroethane	71-55-6	19	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	20	0.8	1
10903	Trichloroethene	79-01-6	31	1	1
10903	Trichlorofluoromethane	75-69-4	21	2	1
10903	1,2,3-Trichloropropane	96-18-4	19	1	1
10903	1,2,4-Trimethylbenzene	95-63-6	20	1	1
10903	1,3,5-Trimethylbenzene	108-67-8	20	1	1
10903	Vinyl Chloride	75-01-4	19	1	1
10903	m+p-Xylene	179601-23-1	41	0.5	1
10903	o-Xylene	95-47-6	20	0.5	1
10903	Xylene (Total)	1330-20-7	62	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	1.1	0.0099	1
08357	Acenaphthylene	208-96-8	1.1	0.0099	1
08357	Anthracene	120-12-7	1.1	0.0099	1
08357	Benzo(a)anthracene	56-55-3	1.1	0.0099	1
08357	Benzo(a)pyrene	50-32-8	1.0	0.0099	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.0099	1
08357	Benzo(g,h,i)perylene	191-24-2	1.1	0.0099	1
08357	Benzo(k)fluoranthene	207-08-9	0.92	0.0099	1
08357	Chrysene	218-01-9	0.98	0.0099	1
08357	Dibenz(a,h)anthracene	53-70-3	1.1	0.0099	1
08357	Fluoranthene	206-44-0	1.0	0.0099	1
08357	Fluorene	86-73-7	1.0	0.0099	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	0.0099	1
08357	Naphthalene	91-20-3	1.0	0.030	1
08357	Phenanthrene	85-01-8	1.0	0.030	1
08357	Pyrene	129-00-0	1.1	0.0099	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	870	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	1,300	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1

Sample Description: GW-080812-NH-MW1_MS Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751362
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 14:45 by NH

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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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 02:58	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/18/2012 02:58	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/13/2012 14:52	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 19:31	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 19:31	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122250019A	08/20/2012 22:06	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122250019A	08/14/2012 10:25	Denise L Trimby	1

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Analysis Report

Sample Description: GW-080812-NH-MW1_MSD Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751363
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 14:45 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

Conestoga-Rovers & Associates
10969 Trade Center Drive
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MLS01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	140	6	1
10903	Benzene	71-43-2	21	0.5	1
10903	Bromobenzene	108-86-1	20	1	1
10903	Bromochloromethane	74-97-5	19	1	1
10903	Bromodichloromethane	75-27-4	19	1	1
10903	Bromoform	75-25-2	15	1	1
10903	Bromomethane	74-83-9	16	1	1
10903	2-Butanone	78-93-3	140	3	1
10903	n-Butylbenzene	104-51-8	21	1	1
10903	sec-Butylbenzene	135-98-8	21	1	1
10903	tert-Butylbenzene	98-06-6	21	1	1
10903	Carbon Disulfide	75-15-0	18	1	1
10903	Carbon Tetrachloride	56-23-5	22	1	1
10903	Chlorobenzene	108-90-7	21	0.8	1
10903	Chloroethane	75-00-3	16	1	1
10903	Chloroform	67-66-3	20	0.8	1
10903	Chloromethane	74-87-3	16	1	1
10903	2-Chlorotoluene	95-49-8	21	1	1
10903	4-Chlorotoluene	106-43-4	20	1	1
10903	1,2-Dibromo-3-chloropropane	96-12-8	18	2	1
10903	Dibromochloromethane	124-48-1	19	1	1
10903	1,2-Dibromoethane	106-93-4	20	0.5	1
10903	Dibromomethane	74-95-3	20	1	1
10903	1,2-Dichlorobenzene	95-50-1	20	1	1
10903	1,3-Dichlorobenzene	541-73-1	19	1	1
10903	1,4-Dichlorobenzene	106-46-7	20	1	1
10903	Dichlorodifluoromethane	75-71-8	17	2	1
10903	1,1-Dichloroethane	75-34-3	21	1	1
10903	1,2-Dichloroethane	107-06-2	20	0.5	1
10903	1,1-Dichloroethene	75-35-4	22	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	48	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	22	0.8	1
10903	1,2-Dichloropropane	78-87-5	20	1	1
10903	1,3-Dichloropropane	142-28-9	20	1	1
10903	2,2-Dichloropropane	594-20-7	21	1	1
10903	1,1-Dichloropropene	563-58-6	22	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	19	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	18	1	1
10903	Ethylbenzene	100-41-4	21	0.5	1
10903	Hexachlorobutadiene	87-68-3	20	2	1
10903	2-Hexanone	591-78-6	90	3	1
10903	Isopropylbenzene	98-82-8	21	1	1
10903	p-Isopropyltoluene	99-87-6	21	1	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	1
10903	4-Methyl-2-pentanone	108-10-1	92	3	1
10903	Methylene Chloride	75-09-2	20	2	1
10903	Naphthalene	91-20-3	19	1	1
10903	n-Propylbenzene	103-65-1	22	1	1
10903	Styrene	100-42-5	19	1	1
10903	1,1,1,2-Tetrachloroethane	630-20-6	20	1	1

Sample Description: GW-080812-NH-MW1_MSD Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751363
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 14:45 by NH

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CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	20	1	1
10903	Tetrachloroethene	127-18-4	26	0.8	1
10903	Toluene	108-88-3	21	0.5	1
10903	1,2,3-Trichlorobenzene	87-61-6	19	1	1
10903	1,2,4-Trichlorobenzene	120-82-1	20	1	1
10903	1,1,1-Trichloroethane	71-55-6	19	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	21	0.8	1
10903	Trichloroethene	79-01-6	31	1	1
10903	Trichlorofluoromethane	75-69-4	21	2	1
10903	1,2,3-Trichloropropane	96-18-4	19	1	1
10903	1,2,4-Trimethylbenzene	95-63-6	20	1	1
10903	1,3,5-Trimethylbenzene	108-67-8	21	1	1
10903	Vinyl Chloride	75-01-4	18	1	1
10903	m+p-Xylene	179601-23-1	42	0.5	1
10903	o-Xylene	95-47-6	20	0.5	1
10903	Xylene (Total)	1330-20-7	62	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	1.1	0.0095	1
08357	Acenaphthylene	208-96-8	1.1	0.0095	1
08357	Anthracene	120-12-7	1.0	0.0095	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.0095	1
08357	Benzo(a)pyrene	50-32-8	0.98	0.0095	1
08357	Benzo(b)fluoranthene	205-99-2	1.0	0.0095	1
08357	Benzo(g,h,i)perylene	191-24-2	0.98	0.0095	1
08357	Benzo(k)fluoranthene	207-08-9	0.88	0.0095	1
08357	Chrysene	218-01-9	0.93	0.0095	1
08357	Dibenz(a,h)anthracene	53-70-3	0.98	0.0095	1
08357	Fluoranthene	206-44-0	0.99	0.0095	1
08357	Fluorene	86-73-7	1.0	0.0095	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.99	0.0095	1
08357	Naphthalene	91-20-3	1.0	0.028	1
08357	Phenanthrene	85-01-8	0.97	0.028	1
08357	Pyrene	129-00-0	1.1	0.0095	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	1,100	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	1,100	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1

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Analysis Report

Sample Description: GW-080812-NH-MW1_MSD Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751363
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012 14:45 by NH

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS01

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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 03:19	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/18/2012 03:19	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/13/2012 15:25	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 19:53	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 19:53	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122250019A	08/20/2012 22:29	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122250019A	08/14/2012 10:25	Denise L Trimby	1

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Analysis Report

Sample Description: GW-080712-JS-MW4 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751364
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 14:20 by JS

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	N.D.	6	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromobenzene	108-86-1	N.D.	1	1
10903	Bromochloromethane	74-97-5	N.D.	1	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	2-Butanone	78-93-3	N.D.	3	1
10903	n-Butylbenzene	104-51-8	N.D.	1	1
10903	sec-Butylbenzene	135-98-8	N.D.	1	1
10903	tert-Butylbenzene	98-06-6	N.D.	1	1
10903	Carbon Disulfide	75-15-0	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	2-Chlorotoluene	95-49-8	N.D.	1	1
10903	4-Chlorotoluene	106-43-4	N.D.	1	1
10903	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10903	Dibromomethane	74-95-3	N.D.	1	1
10903	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10903	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10903	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10903	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	1,3-Dichloropropane	142-28-9	N.D.	1	1
10903	2,2-Dichloropropane	594-20-7	N.D.	1	1
10903	1,1-Dichloropropene	563-58-6	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.5	1
10903	Hexachlorobutadiene	87-68-3	N.D.	2	1
10903	2-Hexanone	591-78-6	N.D.	3	1
10903	Isopropylbenzene	98-82-8	N.D.	1	1
10903	p-Isopropyltoluene	99-87-6	N.D.	1	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	Naphthalene	91-20-3	N.D.	1	1
10903	n-Propylbenzene	103-65-1	N.D.	1	1
10903	Styrene	100-42-5	N.D.	1	1
10903	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-080712-JS-MW4 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751364
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 14:20 by JS

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.5	1
10903	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10903	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10903	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10903	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	m+p-Xylene	179601-23-1	N.D.	0.5	1
10903	o-Xylene	95-47-6	N.D.	0.5	1
10903	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.0097	1
08357	Acenaphthylene	208-96-8	N.D.	0.0097	1
08357	Anthracene	120-12-7	N.D.	0.0097	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0097	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0097	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0097	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.0097	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0097	1
08357	Chrysene	218-01-9	N.D.	0.0097	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0097	1
08357	Fluoranthene	206-44-0	N.D.	0.0097	1
08357	Fluorene	86-73-7	N.D.	0.0097	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0097	1
08357	Naphthalene	91-20-3	0.039	0.029	1
08357	Phenanthrene	85-01-8	N.D.	0.029	1
08357	Pyrene	129-00-0	N.D.	0.0097	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.34	0.034	1

Sample Description: GW-080712-JS-MW4 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751364
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 14:20 by JS

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS04

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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 03:39	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/18/2012 03:39	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/14/2012 04:48	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 17:42	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 17:42	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122270024A	08/16/2012 23:45	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122270024A	08/15/2012 09:20	Catherine R Wiker	1
06035	Lead	SW-846 6020	1	122246050003A	08/14/2012 18:28	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	122246050003	08/13/2012 08:40	James L Mertz	1

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Analysis Report

Sample Description: GW-080712-JS-MW6 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751365
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 11:10 by JS

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	N.D.	6	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromobenzene	108-86-1	N.D.	1	1
10903	Bromochloromethane	74-97-5	N.D.	1	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	2-Butanone	78-93-3	N.D.	3	1
10903	n-Butylbenzene	104-51-8	N.D.	1	1
10903	sec-Butylbenzene	135-98-8	N.D.	1	1
10903	tert-Butylbenzene	98-06-6	N.D.	1	1
10903	Carbon Disulfide	75-15-0	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	2-Chlorotoluene	95-49-8	N.D.	1	1
10903	4-Chlorotoluene	106-43-4	N.D.	1	1
10903	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10903	Dibromomethane	74-95-3	N.D.	1	1
10903	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10903	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10903	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10903	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	1,3-Dichloropropane	142-28-9	N.D.	1	1
10903	2,2-Dichloropropane	594-20-7	N.D.	1	1
10903	1,1-Dichloropropene	563-58-6	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.5	1
10903	Hexachlorobutadiene	87-68-3	N.D.	2	1
10903	2-Hexanone	591-78-6	N.D.	3	1
10903	Isopropylbenzene	98-82-8	N.D.	1	1
10903	p-Isopropyltoluene	99-87-6	N.D.	1	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	Naphthalene	91-20-3	N.D.	1	1
10903	n-Propylbenzene	103-65-1	N.D.	1	1
10903	Styrene	100-42-5	N.D.	1	1
10903	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: GW-080712-JS-MW6 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751365
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 11:10 by JS

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.5	1
10903	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10903	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10903	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10903	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	m+p-Xylene	179601-23-1	N.D.	0.5	1
10903	o-Xylene	95-47-6	N.D.	0.5	1
10903	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.0095	1
08357	Acenaphthylene	208-96-8	N.D.	0.0095	1
08357	Anthracene	120-12-7	N.D.	0.0095	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.0095	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.0095	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.0095	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.0095	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0095	1
08357	Chrysene	218-01-9	N.D.	0.0095	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0095	1
08357	Fluoranthene	206-44-0	N.D.	0.0095	1
08357	Fluorene	86-73-7	N.D.	0.0095	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0095	1
08357	Naphthalene	91-20-3	0.042	0.028	1
08357	Phenanthrene	85-01-8	N.D.	0.028	1
08357	Pyrene	129-00-0	N.D.	0.0095	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.15	0.034	1

Sample Description: GW-080712-JS-MW6 Water
MLK Tidewater Site
2800 Martin Luther King Jr Way - Seattle, WA

LLI Sample # WW 6751365
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/07/2012 11:10 by JS

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLS06

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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 04:00	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/18/2012 04:00	Sarah A Guill	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	12223WAJ026	08/14/2012 05:20	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	12223WAJ026	08/12/2012 16:20	Nicholas W Shroyer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 18:04	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 18:04	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	122270024A	08/17/2012 00:08	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	122270024A	08/15/2012 09:20	Catherine R Wiker	1
06035	Lead	SW-846 6020	1	122246050003A	08/14/2012 18:30	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	122246050003	08/13/2012 08:40	James L Mertz	1

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Analysis Report

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

LLI Sample # WW 6751366
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLSTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	N.D.	6	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromobenzene	108-86-1	N.D.	1	1
10903	Bromochloromethane	74-97-5	N.D.	1	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	2-Butanone	78-93-3	N.D.	3	1
10903	n-Butylbenzene	104-51-8	N.D.	1	1
10903	sec-Butylbenzene	135-98-8	N.D.	1	1
10903	tert-Butylbenzene	98-06-6	N.D.	1	1
10903	Carbon Disulfide	75-15-0	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	2-Chlorotoluene	95-49-8	N.D.	1	1
10903	4-Chlorotoluene	106-43-4	N.D.	1	1
10903	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10903	Dibromomethane	74-95-3	N.D.	1	1
10903	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10903	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10903	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10903	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	1,3-Dichloropropane	142-28-9	N.D.	1	1
10903	2,2-Dichloropropane	594-20-7	N.D.	1	1
10903	1,1-Dichloropropene	563-58-6	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.5	1
10903	Hexachlorobutadiene	87-68-3	N.D.	2	1
10903	2-Hexanone	591-78-6	N.D.	3	1
10903	Isopropylbenzene	98-82-8	N.D.	1	1
10903	p-Isopropyltoluene	99-87-6	N.D.	1	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	Naphthalene	91-20-3	N.D.	1	1
10903	n-Propylbenzene	103-65-1	N.D.	1	1
10903	Styrene	100-42-5	N.D.	1	1
10903	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

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

LLI Sample # WW 6751366
LLI Group # 1328127
Account # 13534

Project Name: 301233 Tidewater Seattle

Collected: 08/08/2012

Submitted: 08/10/2012 09:20
Reported: 08/22/2012 18:20

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

MLSTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.5	1
10903	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10903	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10903	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10903	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	m+p-Xylene	179601-23-1	N.D.	0.5	1
10903	o-Xylene	95-47-6	N.D.	0.5	1
10903	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

General Sample Comments

State of Washington Lab Certification No. 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
10903	8260 Solvent Compound - Water	SW-846 8260B	1	Y122303AA	08/18/2012 04:20	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y122303AA	08/18/2012 04:20	Sarah A Guill	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12229C20A	08/20/2012 12:34	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12229C20A	08/20/2012 12:34	Marie D John	1

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1328127
Reported: 08/22/12 at 06:20 PM

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

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Y122303AA	Sample number(s): 6751353-6751366							
Acetone	N.D.	6.	ug/l	147		38-212		
Benzene	N.D.	0.5	ug/l	102		77-121		
Bromobenzene	N.D.	1.	ug/l	96		80-120		
Bromochloromethane	N.D.	1.	ug/l	98		77-130		
Bromodichloromethane	N.D.	1.	ug/l	99		73-120		
Bromoform	N.D.	1.	ug/l	88		61-120		
Bromomethane	N.D.	1.	ug/l	80		44-120		
2-Butanone	N.D.	3.	ug/l	116		53-155		
n-Butylbenzene	N.D.	1.	ug/l	98		73-130		
sec-Butylbenzene	N.D.	1.	ug/l	100		74-124		
tert-Butylbenzene	N.D.	1.	ug/l	99		80-120		
Carbon Disulfide	N.D.	1.	ug/l	94		62-125		
Carbon Tetrachloride	N.D.	1.	ug/l	103		67-122		
Chlorobenzene	N.D.	0.8	ug/l	100		80-120		
Chloroethane	N.D.	1.	ug/l	82		49-129		
Chloroform	N.D.	0.8	ug/l	98		77-122		
Chloromethane	N.D.	1.	ug/l	79		60-129		
2-Chlorotoluene	N.D.	1.	ug/l	99		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	98		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	95		56-126		
Dibromochloromethane	N.D.	1.	ug/l	99		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	101		76-120		
Dibromomethane	N.D.	1.	ug/l	101		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	101		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	95		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	100		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/l	85		47-120		
1,1-Dichloroethane	N.D.	1.	ug/l	100		79-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	101		64-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	100		80-120		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	102		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	103		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	97		80-120		
1,3-Dichloropropane	N.D.	1.	ug/l	101		80-120		
2,2-Dichloropropane	N.D.	1.	ug/l	97		67-124		
1,1-Dichloropropene	N.D.	1.	ug/l	98		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	104		78-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	95		79-120		
Ethylbenzene	N.D.	0.5	ug/l	101		79-120		
Hexachlorobutadiene	N.D.	2.	ug/l	96		58-120		
2-Hexanone	N.D.	3.	ug/l	99		53-139		
Isopropylbenzene	N.D.	1.	ug/l	101		77-120		
p-Isopropyltoluene	N.D.	1.	ug/l	98		77-121		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	103		68-121		
4-Methyl-2-pentanone	N.D.	3.	ug/l	96		58-133		

*- 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 Group Number: 1328127
Reported: 08/22/12 at 06:20 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methylene Chloride	N.D.	2.	ug/l	100		80-126		
Naphthalene	N.D.	1.	ug/l	102		47-126		
n-Propylbenzene	N.D.	1.	ug/l	101		77-130		
Styrene	N.D.	1.	ug/l	96		77-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	98		79-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	102		75-123		
Tetrachloroethene	N.D.	0.8	ug/l	100		79-120		
Toluene	N.D.	0.5	ug/l	99		79-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	99		71-120		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	101		72-120		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	90		70-121		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	103		80-120		
Trichloroethene	N.D.	1.	ug/l	101		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	105		56-128		
1,2,3-Trichloropropane	N.D.	1.	ug/l	100		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	100		69-122		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	100		68-124		
Vinyl Chloride	N.D.	1.	ug/l	85		56-123		
m+p-Xylene	N.D.	0.5	ug/l	100		77-120		
o-Xylene	N.D.	0.5	ug/l	100		77-120		
Xylene (Total)	N.D.	0.5	ug/l	100		77-120		
Batch number: 12223WAJ026	Sample number(s): 6751353-6751365							
Acenaphthene	N.D.	0.010	ug/l	111		69-119		
Acenaphthylene	N.D.	0.010	ug/l	108		64-119		
Anthracene	N.D.	0.010	ug/l	111		64-122		
Benzo(a)anthracene	N.D.	0.010	ug/l	109		63-124		
Benzo(a)pyrene	N.D.	0.010	ug/l	110		60-127		
Benzo(b)fluoranthene	N.D.	0.010	ug/l	120		58-151		
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	109		57-131		
Benzo(k)fluoranthene	N.D.	0.010	ug/l	100		59-130		
Chrysene	N.D.	0.010	ug/l	102		65-124		
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	112		55-134		
Fluoranthene	N.D.	0.010	ug/l	105		69-121		
Fluorene	N.D.	0.010	ug/l	105		67-124		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	111		66-122		
Naphthalene	N.D.	0.030	ug/l	105		72-120		
Phenanthrene	N.D.	0.030	ug/l	104		66-121		
Pyrene	N.D.	0.010	ug/l	113		59-128		
Batch number: 12229C20A	Sample number(s): 6751353-6751366							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	97		75-135		
Batch number: 122250019A	Sample number(s): 6751353-6751363							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	88		50-120		
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 122270024A	Sample number(s): 6751364-6751365							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	91	92	50-120	1	20
HRO C24-C40 w/Si Gel	79	70.	ug/l					
Batch number: 122246050003A	Sample number(s): 6751353-6751361,6751364-6751365							
Lead	N.D.	0.034	ug/l	103		90-115		

*- 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 Group Number: 1328127
Reported: 08/22/12 at 06:20 PM

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 MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Y122303AA	Sample number(s): 6751353-6751366 UNSPK: 6751361								
Acetone	94	91	52-139	3	30				
Benzene	107	107	72-134	0	30				
Bromobenzene	98	98	82-115	0	30				
Bromochloromethane	96	96	76-134	0	30				
Bromodichloromethane	98	97	78-125	1	30				
Bromoform	76	77	48-118	1	30				
Bromomethane	79	81	38-149	3	30				
2-Butanone	93	92	57-138	0	30				
n-Butylbenzene	100	103	73-128	2	30				
sec-Butylbenzene	106	107	79-125	1	30				
tert-Butylbenzene	102	103	81-121	0	30				
Carbon Disulfide	91	92	67-135	1	30				
Carbon Tetrachloride	109	109	72-135	1	30				
Chlorobenzene	102	103	87-124	0	30				
Chloroethane	81	81	51-145	0	30				
Chloroform	100	100	81-134	1	30				
Chloromethane	79	79	67-154	0	30				
2-Chlorotoluene	101	103	82-118	1	30				
4-Chlorotoluene	101	101	84-122	0	30				
1,2-Dibromo-3-chloropropane	90	90	54-134	0	30				
Dibromochloromethane	94	93	74-116	0	30				
1,2-Dibromoethane	98	99	77-116	1	30				
Dibromomethane	99	99	83-119	0	30				
1,2-Dichlorobenzene	101	101	84-119	1	30				
1,3-Dichlorobenzene	97	97	86-121	0	30				
1,4-Dichlorobenzene	98	101	85-121	3	30				
Dichlorodifluoromethane	87	85	52-129	3	30				
1,1-Dichloroethane	105	104	84-129	1	30				
1,2-Dichloroethane	100	99	68-131	1	30				
1,1-Dichloroethene	110	110	85-142	0	30				
cis-1,2-Dichloroethene	114	110	85-125	2	30				
trans-1,2-Dichloroethene	110	108	87-126	2	30				
1,2-Dichloropropane	101	100	83-124	2	30				
1,3-Dichloropropane	100	100	81-120	1	30				
2,2-Dichloropropane	104	104	69-135	0	30				
1,1-Dichloropropene	108	108	86-137	0	30				
cis-1,3-Dichloropropene	96	97	70-116	1	30				
trans-1,3-Dichloropropene	89	88	74-119	0	30				
Ethylbenzene	105	105	71-134	0	30				
Hexachlorobutadiene	97	101	56-134	4	30				
2-Hexanone	89	90	55-127	1	30				
Isopropylbenzene	106	106	75-128	0	30				
p-Isopropyltoluene	102	104	76-123	2	30				
Methyl Tertiary Butyl Ether	101	99	72-126	2	30				
4-Methyl-2-pentanone	90	92	63-123	2	30				
Methylene Chloride	100	100	78-133	0	30				
Naphthalene	95	97	52-125	2	30				
n-Propylbenzene	106	108	74-134	2	30				
Styrene	93	94	78-125	1	30				
1,1,1,2-Tetrachloroethane	100	101	82-119	0	30				
1,1,2,2-Tetrachloroethane	99	99	72-128	0	30				

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Group Number: 1328127
Reported: 08/22/12 at 06:20 PM

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 MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Tetrachloroethene	108	107	80-128	0	30				
Toluene	105	105	80-125	0	30				
1,2,3-Trichlorobenzene	92	95	69-119	3	30				
1,2,4-Trichlorobenzene	97	99	70-124	2	30				
1,1,1-Trichloroethane	96	95	74-131	0	30				
1,1,2-Trichloroethane	102	103	77-124	1	30				
Trichloroethene	109	109	88-133	0	30				
Trichlorofluoromethane	106	104	64-146	2	30				
1,2,3-Trichloropropane	97	97	76-118	1	30				
1,2,4-Trimethylbenzene	101	102	72-130	0	30				
1,3,5-Trimethylbenzene	102	103	76-120	1	30				
Vinyl Chloride	87	84	66-133	3	30				
m+p-Xylene	103	104	79-125	1	30				
o-Xylene	102	102	79-125	0	30				
Xylene (Total)	103	104	79-125	1	30				
Batch number: 12223WAJ026	Sample number(s): 6751353-6751365 UNSPK: 6751361								
Acenaphthene	110	112	53-133	2	30				
Acenaphthylene	109	111	54-124	3	30				
Anthracene	110	110	51-135	5	30				
Benzo(a)anthracene	106	109	67-124	2	30				
Benzo(a)pyrene	105	103	55-130	7	30				
Benzo(b)fluoranthene	111	109	66-132	6	30				
Benzo(g,h,i)perylene	108	103	36-138	10	30				
Benzo(k)fluoranthene	93	93	42-144	5	30				
Chrysene	98	97	54-127	6	30				
Dibenz(a,h)anthracene	111	103	46-139	12	30				
Fluoranthene	102	105	43-141	2	30				
Fluorene	105	108	46-141	2	30				
Indeno(1,2,3-cd)pyrene	111	104	39-146	11	30				
Naphthalene	97	102	52-131	0	30				
Phenanthrene	102	102	51-132	5	30				
Pyrene	108	111	47-133	2	30				
Batch number: 12229C20A	Sample number(s): 6751353-6751366 UNSPK: 6751361								
NWTPH-Gx water C7-C12	79	98	75-135	21	30				
Batch number: 122250019A	Sample number(s): 6751353-6751363 UNSPK: 6751361								
DRO C12-C24 w/Si Gel	82	71	60-120	16	20				
Batch number: 122246050003A	Sample number(s): 6751353-6751361,6751364-6751365 UNSPK: P748039 BKG: P748039								
Lead	106	104	83-120	2	20	0.039	N.D.	200* (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: VOCs by 8260B - Water
Batch number: Y122303AA

*- 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 Group Number: 1328127
Reported: 08/22/12 at 06:20 PM

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6751353	100	101	101	100
6751354	100	102	100	101
6751355	99	101	101	101
6751356	101	102	100	99
6751357	102	103	101	100
6751358	101	102	101	102
6751359	101	104	101	101
6751360	100	101	100	101
6751361	100	103	99	99
6751362	101	101	102	101
6751363	101	104	102	100
6751364	100	101	101	100
6751365	101	103	99	98
6751366	100	104	102	101
Blank	101	102	101	99
LCS	102	105	101	101
MS	101	101	102	101
MSD	101	104	102	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 12223WAJ026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
6751353	102	122	101
6751354	109	124	112
6751355	110	120	106
6751356	99	114	98
6751357	100	117	99
6751358	104	124	112
6751359	101	121	107
6751360	98	107	103
6751361	99	119	94
6751362	103	123	99
6751363	104	123	102
6751364	99	117	96
6751365	99	117	98
Blank	98	120	95
LCS	104	126	101
MS	103	123	99
MSD	104	123	102
Limits:	64-120	44-127	61-120

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 12229C20A

	Trifluorotoluene-F
6751353	76
6751354	83
6751355	72
6751356	73
6751357	84

*- 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 Group Number: 1328127
Reported: 08/22/12 at 06:20 PM

Surrogate Quality Control

6751358	82
6751359	82
6751360	74
6751361	73
6751362	82
6751363	99
6751364	70
6751365	70
6751366	80
Blank	69
LCS	86
MS	82
MSD	99
Limits:	63-135

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 122250019A

	Orthoterphenyl
6751353	113
6751354	99
6751355	129
6751356	111
6751357	97
6751358	113
6751359	102
6751360	94
6751361	100
6751362	100
6751363	85
Blank	99
LCS	114
MS	100
MSD	85
Limits:	50-150

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 122270024A

	Orthoterphenyl
6751364	104
6751365	103
Blank	108
LCS	108
LCSD	108
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 Cp#1328127
Sample#6751353-66

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES
1117 TACOMA AVE. SOUTH
TACOMA, WA. 98402-2005

SHIPPED TO (Laboratory Name): LANCASTER LABORATORIES

REFERENCE NUMBER: 061992

SAMPLER'S SIGNATURE: _____ PRINTED NAME: N. Winspenger

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: NWTPH DX	NWTPH GX	Pb	PAH's	VOC's	REMARKS
	08/07	10:00	GW-080712-NH-MW10	WT	9	X	X	X	X	X	Full List VOCs per prev
	08/07	12:00	GW-080712-NH-MW3	WT	9	X	X	X	X	X	fmp 8/13/12
	08/07	14:30	GW-080712-NH-MW5	WT	9	X	X	X	X	X	
	08/07	9:50	GW-080712-JS-MW7	WT	9	X	X	X	X	X	
	08/08	11:30	GW-080812-NH-MW9	WT	9	X	X	X	X	X	
	08/08	13:30	GW-080812-NH-MW8	WT	9	X	X	X	X	X	*collection time per sample
	08/08		GW-080812-NH-FD1	WT	9	X	X	X	X	X	labels. fmp 8/13/12
	08/08	9:45*	GW-080812-NH-MW2	WT	9	X	X	X	X	X	
	08/08	14:45	GW-080812-NH-MW1	WT	25	X	X	X	X	X	MS/MSD
	08/07	14:20	GW-080712-JS-MW4	WT	9	X	X	X	X	X	
	08/07	11:10	GW-080712-JS-MW6	WT	9	X	X	X	X	X	No Pb on MS/MSD per
	[redacted]										previous. fmp 8/13/12
	08/08		TRIP BLANK	WT	4	X	X	X	X	X	

TOTAL NUMBER OF CONTAINERS | HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① _____	DATE: 08/09/12 TIME: 12:00	RECEIVED BY: ① _____	DATE: TIME:
RELINQUISHED BY: ② _____	DATE: TIME:	RECEIVED BY: ② _____	DATE: TIME:
RELINQUISHED BY: ③ _____	DATE: TIME:	RECEIVED BY: ③ _____	DATE: TIME:

METHOD OF SHIPMENT: WAY BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: N. Winspenger, J. Song

RECEIVED FOR LABORATORY BY: _____ DATE: 8/10/12 TIME: 920

N° CRA 20891

1001 (D) APR 28/97(NF) REV. 0 (F-15)

eurofins | Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

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

ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 1
Cumulative Summary of Groundwater Elevations and Sample Analytical Results

Former Tidewater Site
2800 Martin Luther King Way
Seattle, WA

Sample ID / Well Elevation (feet, amsl)	Date Sampled	Depth to Water (feet, TOC)	Groundwater Elevation (feet, amsl)	NWTPH-Dx		NWTPH-Gx	EPA Method 8260B											
				TPH-DRO (ug/L)	TPH-MRO (ug/L)	TPH-GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	Naphthalene (ug/L)	MTBE (ug/L)	1,2-Di-bromoethane (ug/L)	1,2-Di-chloroethane (ug/L)	1,2,4-Tri-methylbenzene (ug/L)	1,3,5-Tri-methylbenzene (ug/L)	n-Propylbenzene (ug/L)	Iso-Propylbenzene (ug/L)
MW-1	08/19/05	13.01	84.91	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
97.92	10/27/05	12.62	85.30	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	12/27/05	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	01/12/08	9.03	88.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/02/06	10.56	87.36	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	06/28/06	12.42	85.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/01/06	9.33	88.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/06/06	9.72	88.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/28/07	11.04	86.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/07/07	11.14	86.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/07	11.06	86.86	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	11/12/09	11.08	86.84	--	--	<50	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	--
	08/30/11	--	--	Well not sampled - well not found														
	12/15/11	--	--	Well not sampled - well not found														
62.35	02/06/12	9.84	52.51	430	**620**	260	<0.5	41	3	18	<1	<0.5	**<1**	<1	<1	<1	<1	<1
MW-2	08/19/05	13.02	83.23	--	--	**2,000**	ND	10	81	91	--	--	--	--	--	--	--	--
96.25	10/27/05	13.62	82.63	--	--	**2,300**	ND	ND	89	93	--	--	--	--	--	--	--	--
	12/27/05	--	--	--	--	**820**	ND	ND	21	66	--	--	--	--	--	--	--	--
	01/12/06	5.77	90.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/02/06	11.82	84.43	--	--	**1,300**	ND	3.9	23	50	--	--	--	--	--	--	--	--
	04/13/06	13.06	83.19	--	--	470	ND	1.4	6.9	15	--	--	--	--	--	--	--	--
	06/28/06	12.40	83.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/11/06	13.64	82.61	--	--	580	ND	1.6	2.9	6.2	--	--	--	--	--	--	--	--
	12/01/06	10.65	85.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/06/06	10.20	86.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/12/07	11.06	85.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/12/07	--	--	--	--	**1,400**	1.4	3.5	16	13	--	--	--	--	--	--	--	--
	02/28/07	11.65	84.60	--	--	**1,200**	1.8	3.7	18	60	--	--	--	--	--	--	--	--
	03/07/07	11.43	84.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/11/07	11.07	85.18	--	--	**1,200**	ND	2.8	11	63	--	--	--	--	--	--	--	--
	11/12/09	12.35	83.90	--	--	455	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	--
60.72	08/31/11	11.96	48.76	**590**	<66	**960**	1	<0.7	1	6	<1	<0.5	**<1**	<1	<1	2	59	24
	12/15/11	11.53	49.19	30	<67	750	1	<0.7	1	<1.6	<1	<0.5	**<1**	<1	<1	<1	60	25
	02/06/12	10.26	50.46	390	<68	780	1	2	<0.8	<1.6	<1	<0.5	**<1**	<1	<1	<1	55	22

Table 1
Cumulative Summary of Groundwater Elevations and Sample Analytical Results

Former Tidewater Site
2800 Martin Luther King Way
Seattle, WA

Sample ID / Well Elevation (feet, amsl)	Date Sampled	Depth to Water (feet, TOC)	Groundwater Elevation (feet, amsl)	NWTPH-Dx		NWTPH-Gx	EPA Method 8260B											
				TPH-DRO (ug/L)	TPH-MRO (ug/L)	TPH-GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	Naphthalene (ug/L)	MTBE (ug/L)	1,2-Di-bromoethane (ug/L)	1,2-Di-chloroethane (ug/L)	1,2,4-Tri-methylbenzene (ug/L)	1,3,5-Tri-methylbenzene (ug/L)	n-Propylbenzene (ug/L)	Iso-Propylbenzene (ug/L)
MW-3	08/19/05	12.72	84.71	--	--	**44,000**	4.1	18	**780**	**3,600**	--	--	--	--	--	--	--	--
97.43	10/27/05	13.42	84.01	--	--	**17,000**	ND	38	580	**3,000**	--	--	--	--	--	--	--	--
	12/27/05	--	--	--	--	**6,600**	**5.0**	22	200	**1,100**	--	--	--	--	--	--	--	--
	01/12/06	8.84	88.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/02/06	10.90	86.53	--	--	**22,000**	ND	26	450	**4,200**	--	--	--	--	--	--	--	--
	04/13/06	11.92	85.51	--	--	**33,000**	ND	3.4	**700**	**3,100**	--	--	--	--	--	--	--	--
	06/28/06	12.17	85.26	--	--	**53,000**	ND	17	530	**2,600**	--	--	--	--	--	--	--	--
	08/13/06	13.91	83.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/11/06	13.77	83.66	--	--	**14,000**	ND	5.6	180	**1,100**	--	--	--	--	--	--	--	--
	10/13/06	--	--	--	--	**1,400**	ND	1.0	26	98	--	--	--	--	--	--	--	--
	11/17/06	10.56	86.87	--	--	**48,000**	ND	34	490	**4,100**	--	--	--	--	--	--	--	--
	12/01/06	9.78	87.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/06/06	10.01	87.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/12/07	10.90	86.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/12/07	--	--	--	--	**36,000**	ND	10	280	**1,800**	--	--	--	--	--	--	--	--
	02/28/07	11.12	86.31	--	--	**22,000**	ND	5.8	200	**1,400**	--	--	--	--	--	--	--	--
	03/07/07	11.17	86.26	--	--	**21,000**	ND	18	170	**1,000**	--	--	--	--	--	--	--	--
	04/11/07	11.04	86.39	--	--	**19,000**	ND	5.5	110	**1,100**	--	--	--	--	--	--	--	--
	11/12/09	11.98	85.45	--	--	71.7	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	--
61.81	08/31/11	12.10	49.71	370	<68	**7,400**	<1	<1	190	554	67	<1	**<2**	<2	1,300	330	140	47
	12/15/11	11.38	50.43	<29	<67	**5,400**	<0.5	<0.7	120	400	50	<0.5	**<1**	<1	950	210	110	37
	02/06/12	10.33	51.48	**1,200**	<68	**6,300**	<1	<1	130	523	49	<1	**<2**	<2	870	190	74	27
MW-4	06/28/06	12.40	85.96	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
98.36	12/01/06	9.90	88.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/06/06	10.21	88.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/28/07	11.43	86.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/07/07	11.49	86.87	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	04/11/07	11.27	87.09	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	11/12/09	11.82	86.54	--	--	<50	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	--
62.75	08/31/11	12.42	50.33	<29	<68	<50	<0.5	<0.7	<0.8	<0.8	<1	<0.5	**<1**	<1	<1	<1	<1	<1
	12/15/11	11.69	51.06	<29	<67	<50	<0.5	<0.7	<0.8	<1.6	<1	<0.5	**<1**	<1	<1	<1	<1	<1
	02/06/12	10.50	52.25	55	<67	<50	<0.5	<0.7	<0.8	<1.6	<1	<0.5	**<1**	<1	<1	<1	<1	<1
MW-5	06/28/06	12.09	85.11	--	--	**21,000**	ND	14	290	920	--	--	--	--	--	--	--	--
97.2	09/11/06	13.63	83.57	--	--	**2,500**	ND	ND	34	60	--	--	--	--	--	--	--	--
	11/17/06	10.57	86.63	--	--	**23,000**	ND	52	450	**1,700**	--	--	--	--	--	--	--	--
	12/01/06	9.75	87.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/12/07	10.85	86.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/12/07	--	--	--	--	**37,000**	ND	33	**1,600**	**2,800**	--	--	--	--	--	--	--	--
	02/28/07	11.05	86.15	--	--	**29,000**	ND	24	550	**1,800**	--	--	--	--	--	--	--	--
	03/07/07	11.11	86.09	--	--	**42,000**	**11.0**	24	**740**	**2,500**	--	--	--	--	--	--	--	--
	04/11/07	10.96	86.24	--	--	**65,000**	ND	79	**850**	**4000**	--	--	--	--	--	--	--	--
	11/12/09	12.10	85.10	--	--	**2,340**	1.3	36.3	<1.0	125	--	--	--	--	--	--	--	--
61.66	08/31/11	12.80	48.86	770	<67	**3,100**	2	1	72	124	120	<0.5	**<1**	<1	130	18	210	78
	12/15/11	11.41	50.25	66	<67	**1,900**	1	0.9	24	33	81	<0.5	**<1**	<1	43	3	120	43
	02/06/12	10.54	51.12	34	<68	**1,200**	0.8	<0.7	12	43	37	<0.5	**<1**	<1	31	6	55	21

Table 1
Cumulative Summary of Groundwater Elevations and Sample Analytical Results

Former Tidewater Site
2800 Martin Luther King Way
Seattle, WA

Sample ID / Well Elevation (feet, amsl)	Date Sampled	Depth to Water (feet, TOC)	Groundwater Elevation (feet, amsl)	NWTPH-Dx		NWTPH-Gx	EPA Method 8260B											
				TPH-DRO (ug/L)	TPH-MRO (ug/L)	TPH-GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	Naphthalene (ug/L)	MTBE (ug/L)	1,2-Di-bromoethane (ug/L)	1,2-Di-chloroethane (ug/L)	1,2,4-Tri-methylbenzene (ug/L)	1,3,5-Tri-methylbenzene (ug/L)	n-Propylbenzene (ug/L)	Iso-Propylbenzene (ug/L)
MW-6	08/31/11	12.33	45.70	44	<67	<50	<0.5	<0.7	<0.8	<0.8	1	<0.5	**<1**	<1	<1	<1	<1	<1
58.03	12/15/11	12.09	45.94	<29	<67	<50	<0.5	<0.7	<0.8	<1.6	<1	<0.5	**<1**	<1	<1	<1	<1	<1
	02/06/12	11.80	46.23	<29	<68	<50	<0.5	<0.7	<0.8	<1.6	<1	<0.5	**<1**	<1	<1	<1	<1	<1
MW-7	08/31/11	11.15	45.81	<29	<67	<50	<0.5	<0.7	<0.8	<0.8	<1	<0.5	**<1**	<1	<1	<1	<1	<1
56.96	12/15/11	10.93	46.03	45	89	<50	<0.5	<0.7	<0.8	<1.6	<1	<0.5	**<1**	<1	<1	<1	<1	<1
	02/06/12	10.75	46.21	<29	<68	<50	<0.5	2.0	<0.8	<1.6	<1	<0.5	**<1**	<1	<1	<1	<1	<1
MW-8	08/31/11	12.01	49.70	240	<67	**4,400**	<0.5	<0.7	41	442	33	<0.5	**<1**	<1	500	130	26	11
61.71	12/15/11	11.25	50.46	98	<67	**8,100**	<0.5	<0.7	79	880	72	<0.5	**<1**	<1	900	230	46	20
	02/06/12	10.00	51.71	290	<69	**13,000**	<1	<1	110	**1,280**	89	<1	**<2**	<2	1,400	450	36	18
MW-9	08/31/11	14.29	48.29	78	<68	<50	<0.5	<0.7	<0.8	<0.8	<1	<0.5	**<1**	<1	<1	<1	<1	<1
62.58	12/15/11	13.01	49.57	<29	<67	<50	<0.5	<0.7	<0.8	<1.6	<1	<0.5	**<1**	<1	<1	<1	<1	<1
	02/06/12	12.04	50.54	<300	**<700**[1]	66	<0.5	<0.7	<0.8	<1.6	<1	<0.5	**<1**	<1	<1	<1	<1	<1
MW-10	08/31/11	11.94	47.02	260	100	<50	2	<0.7	<0.8	<0.8	<1	<0.5	**<1**	<1	<1	<1	<1	<1
58.96	12/15/11	11.13	47.83	<28	<66	51	3	<0.7	<0.8	0.8	<1	<0.5	**<1**	<1	<1	<1	2	<1
	02/06/12	10.44	48.52	<29	<68	<50[2]	1	<0.7	<0.8	<1.6	<1	<0.5	**<1**	<1	<1	<1	3	1
TB	11/12/2009	---	---	--	--	<50	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	--
	8/31/2011	---	---	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/15/11	---	---	--	--	<50	<0.5	<0.7	<0.8	<1.6	<1	<0.5	**<1**	<1	<1	<1	<1	<1
QA-T	02/07/12	---	---	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	**--**	**--**	**--**	**--**	**--**	--
MTCA METHOD A CLEANUP LEVEL				**500**	**500**	**800/1,000***	**5**	**1,000**	**700**	**1,000**	**160**	**20**	**0.1**	**5**	**--**	**--**	**--**	**--**

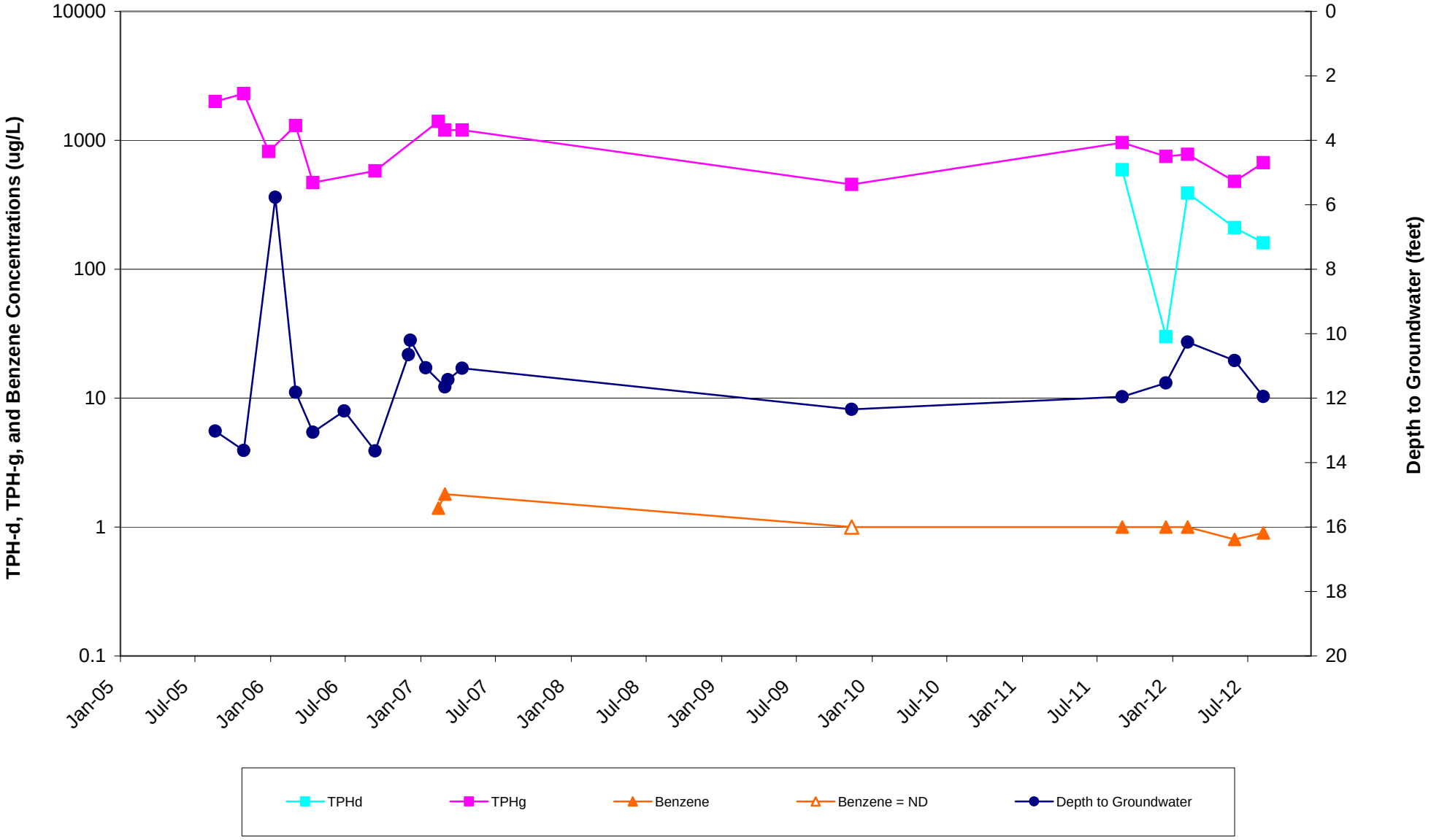
Explanation:
amsl = above mean sea level
bgs = below ground surface
EPA = Environmental Protection Agency
ND = Not detected at or above laboratory method reporting limits ug/L= micrograms per liter
SPH = separate phase hydrocarbons
TB = Trip blank
TOC = top of casing
MTCA= Model Toxics Control Act
TPH-DRO = Total Petroleum Hydrocarbons as Diesel Range Organics
TPH-GRO = Total Petroleum Hydrocarbons as Gasoline Range Organics
TPH-MRO = Total Petroleum Hydrocarbons as Motor Oil Range Organics
< = Not detected at or above laboratory method reporting limits.
-- = Not applicable or not analyzed
Bold = Exceeds MTCA Method A Cleanup Levels
MTBE= Methyl Tertiary Butyl Ether
*=Concentration of TPH-GRO containing benzene have a MTCA Method A cleanup level of 800 ug/L; no detectable benzene have a cleanup level of 1,000 ug/L.

[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.

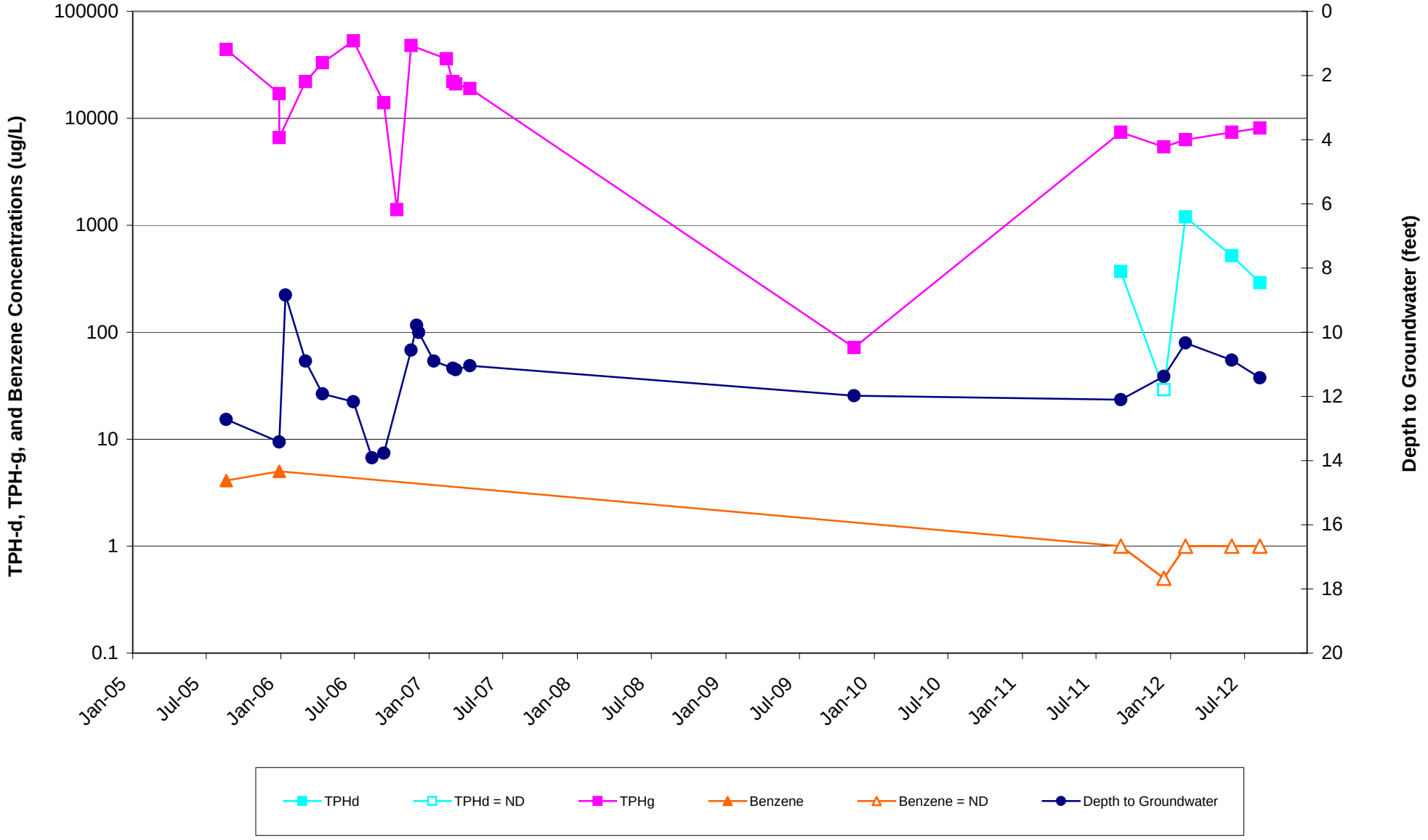
ATTACHMENT D

CONCENTRATION TREND GRAPHS

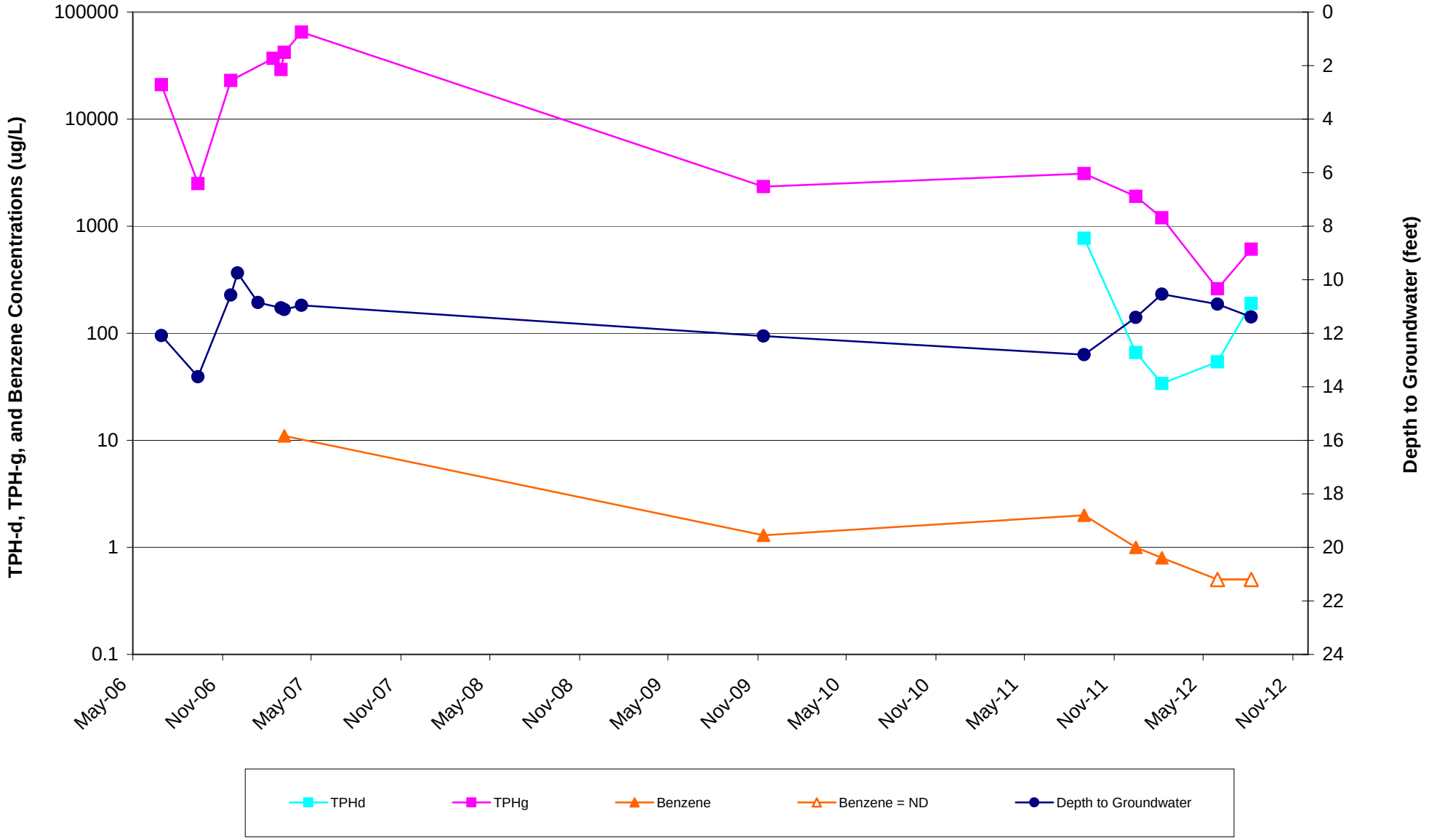
GRAPH 1
CHEMICAL CONCENTRATION VERSUS TIME
MW-2
FORMER TIDEWATER SITE
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON



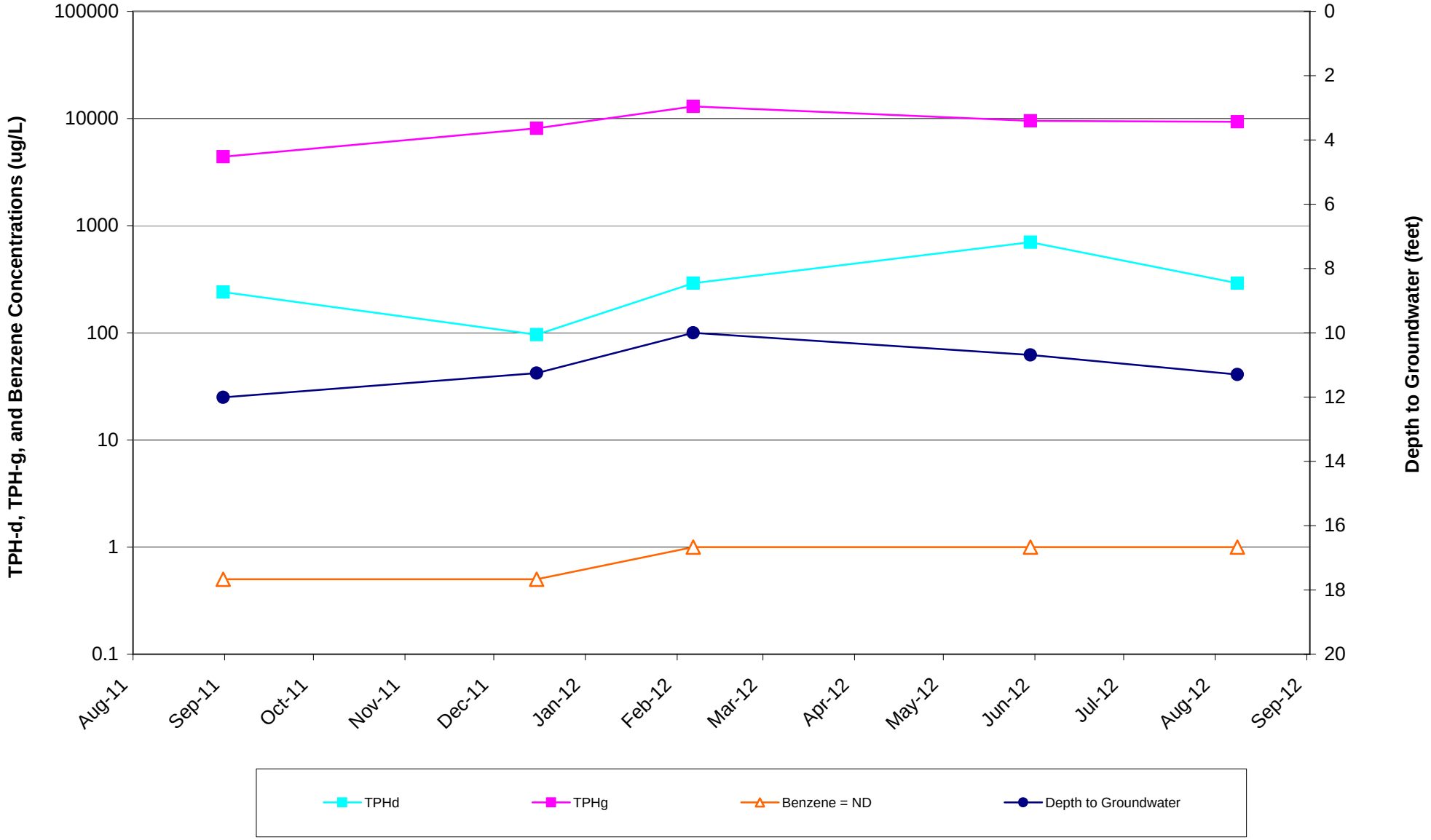
GRAPH 2
CHEMICAL CONCENTRATION VERSUS TIME
MW-3
FORMER TIDEWATER SITE
2800 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON



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 E

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 (µg/L). The sample area was located between the former western and eastern pump islands. G-Logics also conducted an investigation beneath the former heating oil UST. Impacted soil was found in this location but it did not exceed MTCA Method A cleanup levels. (Stantec, 2012).

June 2005

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

August 2005

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

June 2006

Elevated concentrations of TPHg were regularly detected at MW-3, located west of the western pump island. As a result, G-Logics continued soil investigations in the vicinity

of MW-3 in June 2006 due to elevated concentrations of TPHg detected in the groundwater well during quarterly sampling activities. Petroleum related compounds were either non-detect or were below the MTCA Method A cleanup levels in the borings, supporting that the source area was concentrated in the area of the west pump island. (Stantec, 2012).

August 2006

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

December 2006 through June 2007

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

April through July 2011

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

References

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