

ANNUAL GROUNDWATER MONITORING REPORT FOR 2012

SeaTac 76 Retail Station #2611255

19924 International Boulevard, SeaTac, Washington 98188

Ecology Facility ID No. 71711362

VCP No. NW2690

Antea[®] Group Project No. I42611255

May 29, 2013

Prepared for:

Platinum Energy

30343 Canwood Street, Suite 200

Agoura Hills, CA 91301

Prepared by:

Antea Group

4006 148th Avenue NE

Redmond, WA 98052

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ANNUAL GROUNDWATER MONITORING REPORT FOR 2012

Platinum Energy

May 29, 2013

Facility No.: 2611255
Address: 19924 International Blvd, Seatac, WA
Consulting Co./Contact Person: Antea Group / Bryan Taylor
Volunteer Cleanup Program Number: NW2690
Primary Agency/Regulatory ID No.: Washington State Department of Ecology / 71711362

WORK PERFORMED IN 2012:

- Antea Group (Antea) conducted semi-annual groundwater monitoring and sampling on February 9 & 10 and August 1, 2012.
- Antea conducted soil vapor extraction pilot testing on June 28, 2012. Results will be reported in a separate report.
- Antea prepared this annual groundwater monitoring report.

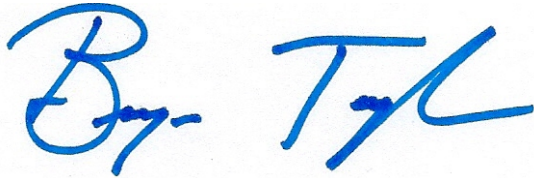
WORK SCHEDULED FOR 2013:

- Antea will conduct quarterly groundwater monitoring and sampling.
- Antea will prepare an annual groundwater monitoring report.

Current Phase of Project:	Remedial Investigation
Frequency of Groundwater Sampling and Monitoring:	Semi-annual
Are LPH Present On-Site:	No
LPH Recovered this Reporting Period:	None
Cumulative LPH Recovered to Date:	1450 gallons total fluids via Enhanced Liquid Recovery (ELR)
Amount of Soil Removed to Date:	Unknown
Current Remediation Techniques:	Pending Remedial Investigation
Approximate Depth to Groundwater:	18.14 ft to 47.30 ft (2/9/12 & 2/10/12); 19.00 ft to 46.50 ft (8/1/12)
Groundwater Gradient:	Southwest
	February 9, 2012: 0.075 ft / linear ft; August 1, 2012: 0.063 ft / linear ft.

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Sincerely,



Bryan Taylor
Senior Project Manager
ANTEA GROUP

Enclosures: Table 1 – Current Groundwater Gauging and Analytical Data
 Table 2 – Historical Groundwater Gauging and Analytical Data
 Table 3 – Groundwater Geochemical Data
 Figure 1 – Property Location Map
 Figure 2 – Property Map
 Figure 3 – Groundwater Elevation Contour Map – 02/09/2012 and 02/10/2012
 Figure 4 – Groundwater Elevation Contour Map – 08/01/2012
 Figure 5 – Groundwater Analytical Results Map – 02/09/2012, 02/10/2012 and 08/01/2012
 PACE Analytical Lab Reports
 Field Data Sheets

cc: Dale Myers, Washington State Department of Ecology, Northwest Regional Office
 File, Antea Group (iEHS)

TABLE 1
CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
Facility No. 2611255
19924 International Boulevard
SeaTac, Washington

Sample I.D.	Sample Date	TOC (feet)	DTW (feet)	LNAPL (feet)	WTE (feet)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	TPH-Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total Lead (µg/L)
MW-1	02/10/12	99.73	28.61	--	71.12	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0	--
	08/01/12	99.73	27.00	--	72.73	<154	<481	<50.0	2.7	<1.0	1.3	4.8	--
MW-3	02/09/12	98.89	27.44	--	71.45	<81	<400	<50.0	<1.0	<1.0	<1.0	<3.0	--
	08/01/12	98.89	26.57	--	72.32	<167	<521	<50.0	<1.0	<1.0	<1.0	<3.0	--
MW-4	02/10/12	98.28	37.04	--	61.24	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0	--
	08/01/12	98.28	28.30	--	69.98	<154	<481	<50.0	<1.0	1.8	2.3	8.0	--
MW-5	02/10/12	97.75	18.14	--	79.61	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0	--
	08/01/12	97.75	19.00	--	78.75	<154	<481	<50.0	<1.0	1.3	1.6	6.0	<10.0
MW-6	02/09/12	98.77	29.97	--	68.80	1,500	<410	36,600	165	6.9	716	2,460	--
	08/01/12	98.77	28.84	--	69.93	2,070	<481	28,300	294	7.8	712	2,200	--
MW-7	02/09/12	98.42	28.72	--	69.70	120	<380	2,490	1.1	2.0	86.0	165	--
	08/01/12	98.42	27.69	--	70.73	343	<521	4,930	<1.0	2.7	110	364	<10.0
MW-8	02/09/12	98.80	47.30	--	51.50	1,200	1,400	13,300	1,203	15.4	768	1,120	--
	08/01/12	98.80	46.50	--	52.30	685	<481	6,110	108	6.6	120	264	--
MW-9	02/09/12	98.99	29.97	--	69.02	590	<380	4,940	169	2.2	237	70.9	--
	08/01/12	98.99	28.91	--	70.08	1,640	<481	18,100	169	5.0	818	1,430	--
MW-10	02/09/12	98.51	29.28	--	69.23	910	<380	46,100	14.8	21.9	997	6,120	--
	08/01/12	98.51	28.28	--	70.23	672	<521	6,830	2.5	1.4	151	664	<10.0
MW-11	02/10/12	98.11	28.28	--	69.83	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0	--
	08/01/12	98.11	27.26	--	70.85	<154	<481	<50.0	1.3	<1.0	1.7	6.8	--
MW-12	02/10/12	97.76	27.83	--	69.93	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0	--
	08/01/12	97.76	26.83	--	70.93	<174	<543	<50.0	<1.0	<1.0	<1.0	3.7	--
MW-13	02/09/12	97.33	27.76	--	69.57	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0	--
	08/01/12	97.33	26.74	--	70.59	<174	<543	<50.0	<1.0	<1.0	<1.0	<3.0	--
MW-14	02/10/12	99.20	NM	--	NM	NS	NS	NS	NS	NS	NS	NS	--
	08/01/12	99.20	NM	--	NM	NS	NS	NS	NS	NS	NS	NS	--

TABLE 1
CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
 Facility No. 2611255
 19924 International Boulevard
 SeaTac, Washington

Sample I.D.	Sample Date	TOC (feet)	DTW (feet)	LNAPL (feet)	WTE (feet)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	TPH-Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total Lead (µg/L)
MW-15	02/10/12	98.49	NM	--	NM	NS	NS	NS	NS	NS	NS	NS	--
	08/01/12	98.49	NM	--	NM	NS	NS	NS	NS	NS	NS	NS	--
MW-16	02/09/12	98.35	29.37	--	68.98	550	<390	71,300	917	5,760	1,250	6,010	--
	08/01/12	98.35	28.30	--	70.05	1,880	<481	59,900	811	1,950	1,420	6,900	--
MW-17	02/09/12	99.39	30.03	--	69.36	440	<380	2,460	12.2	<1.0	110	4.7	--
	08/01/12	99.39	29.00	--	70.39	649	<521	4,990	100	12.5	395	92.5	<10.0
MTCA Method A Cleanup Levels:						500	500	800*	5	1,000	700	1,000	15
Laboratory Reporting Limits						<i>Varies - see laboratory analytical report for values.</i>							

Notes:

µg/L = micrograms per liter

TOC = Top of casing elevation

DTW = Depth to water

LNAPL = Light non-aqueous phase liquid thickness

WTE = Water table elevation

<N = Not detected at the laboratory reporting limits

-- = Not sampled, not measured, or not analyzed

Water table elevation corrected for separate-phase hydrocarbons

TPH as Gasoline = Total petroleum hydrocarbons as gasoline by Method NWTPH-Gx

TPH as Diesel = Total petroleum hydrocarbons as gasoline by Method NWTPH-Dx

TPH as Oil = Total petroleum hydrocarbons as gasoline by Method NWTPH-Dx

BTEX Compounds analyzed by EPA Method 8260

Total lead by EPA Method 6010

* MTCA Method A Cleanup Level for TPH-Gasoline is 1,000 (µg/l) if benzene is not detectable in groundwater.

TABLE 2
HISTORIC GROUNDWATER GAUGING AND ANALYTICAL DATA
FACILITY NO. 2611255
19924 INTERNATIONAL BLVD
SEATAC, WASHINGTON

Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA						
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000
MW-1		4/16/1991	--	-	99.73	NP	26.58	NP	73.15	--	--	--	--	--	--	--
		6/27/1991	--	-	99.73	NP	26.80	NP	72.93	--	--	--	--	--	--	--
		1/16/1992	--	-	99.73	NP	28.60	NP	71.13	--	--	<100	<1	<1	<1	<0.5
		1/23/1992	--	-	99.73	NP	28.75	NP	70.98	--	--	--	--	--	--	--
		1/31/1992	--	-	99.73	NP	28.56	NP	71.17	--	--	--	--	--	--	--
		8/24/1993	--	-	99.73	NP	29.32	NP	70.41	--	--	<50	<0.5	<0.5	1	89
		11/30/1993	--	-	99.73	NP	29.98	NP	69.75	--	--	<100	<0.5	<0.5	<0.5	6
		3/7/1994	--	-	99.73	NP	30.63	NP	69.10	--	--	<100	<0.5	<0.5	<0.5	<0.5
		7/14/1994	--	-	99.73	NP	30.00	NP	69.73	--	--	<100	<0.5	<0.5	<0.5	<0.5
		10/21/1994	--	-	99.73	NP	30.44	NP	69.29	--	--	<100	<0.5	1	5	3
		12/30/1994	--	-	99.73	NP	30.86	NP	68.87	--	--	<100	<0.5	<0.5	1	<0.5
		3/16/1995	--	-	99.73	NP	29.64	NP	70.09	--	--	<100	<0.5	<0.5	<0.5	<0.5
		6/22/1995	--	-	99.73	NP	28.92	NP	70.81	--	--	<100	<0.5	<0.5	<0.5	<0.5
		9/19/1995	--	-	99.73	NP	29.14	NP	70.59	--	--	<100	<0.5	<0.5	<0.5	<0.5
		12/18/1995	--	-	99.73	NP	28.78	NP	70.95	--	--	<100	<0.5	<0.5	<0.5	<0.5
		3/14/1996	--	-	99.73	NP	27.38	NP	72.35	--	--	<100	<0.5	<0.5	<0.5	<0.5
		6/22/1996	--	-	99.73	NP	27.16	NP	72.57	--	--	<100	<0.5	<0.5	<0.5	<0.5
		9/12/1996	--	-	99.73	NP	27.33	NP	72.40	--	--	<100	<0.5	<0.5	<0.5	<0.5
		12/17/1996	--	-	99.73	NP	27.64	NP	72.09	--	--	<100	<0.5	<0.5	<0.5	<1.5
		3/18/1997	--	-	99.73	NP	26.11	NP	73.62	--	--	<100	<0.5	<0.5	<0.5	<1.5
		6/12/1997	--	-	99.73	NP	25.82	NP	73.91	--	--	<100	<0.5	<0.5	<0.5	<1.5
		9/10/1997	--	-	99.73	NP	26.17	NP	73.56	--	--	<100	<0.5	<0.5	<0.5	<1.5
		3/17/1998	--	-	99.73	NP	26.63	NP	73.10	--	--	<100	<0.5	<0.5	<0.5	<1.5
		6/16/1998	--	-	99.73	NP	27.20	NP	72.53	--	--	<100	<0.5	<0.5	<0.5	<1.5
		9/29/1998	--	-	99.73	NP	28.75	NP	70.98	--	--	--	--	--	--	--
		12/10/1998	--	-	99.73	NP	29.53	NP	70.20	--	--	--	--	--	--	--
		3/10/1999	--	-	99.73	NP	27.23	NP	72.50	--	--	--	--	--	--	--
		6/22/1999	--	-	99.73	NP	26.54	NP	73.19	--	--	<100	<1.0	<1.0	1	<1.0
		9/28/1999	--	-	99.73	NP	27.66	NP	72.07	--	--	--	--	--	--	--
		1/4/2000	--	-	99.73	NP	28.56	NP	71.17	--	--	--	--	--	--	--
		3/30/2000	--	-	99.73	NP	27.21	NP	72.52	--	--	--	--	--	--	--
		6/27/2000	--	-	99.73	NP	26.85	NP	72.88	--	--	730	2	14	1	34
		9/25/2000	--	-	99.73	NP	28.19	NP	71.54	--	--	--	--	--	--	--
		9/16/2001	--	-	99.73	NP	32.71	NP	67.02	--	--	<100	<1.0	<1.0	<1.0	<3.0
		12/4/2001	--	-	99.73	NP	33.11	NP	66.62	--	--	140	<1.0	1.2	<1.0	7.3
		3/14/2002	--	-	99.73	NP	30.25	NP	69.48	--	--	310	<1.0	3.5	<1.0	19

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FACILITY NO. 2611255
19924 INTERNATIONAL BLVD
SEATAC, WASHINGTON

Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA						
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000
MW-1		6/9/2002	--	-	99.73	NP	31.52	NP	68.21	--	--	120	<1.0	1.3	<1.0	6.9
		12/18/2002	--	-	99.73	NP	33.51	NP	66.22	NS	NS	NS	NS	NS	NS	NS
		6/3/2003	--	-	99.73	NP	31.15	NP	68.58	--	--	<50.0	<0.500	<0.500	<0.500	<1.00
		10/10/2003	--	-	99.73	NP	33.02	NP	66.71	NS	NS	NS	NS	NS	NS	NS
		4/26/2004	--	-	99.73	NP	29.98	NP	69.75	--	--	<50.0	<0.500	<0.500	<0.500	<1.00
		10/28/2004	--	-	99.73	NP	27.62	NP	72.11	NS	NS	NS	NS	NS	NS	NS
		4/27/2005	--	-	99.73	NP	31.71	NP	68.02	--	--	<80.0	<0.200	<0.500	<0.500	<1.00
		11/22/2005	--	-	99.73	NP	32.98	NP	66.75	--	--	<50.0	<0.500	<0.500	<0.500	<1.00
		4/25/2006	--	-	99.73	NP	30.08	NP	69.65	NS	NS	NS	NS	NS	NS	NS
		10/27/2006	--	-	99.73	NP	30.68	NP	69.05	NS	NS	NS	NS	NS	NS	NS
		4/4/2007	--	-	99.73	NP	28.62	NP	71.11	NS	NS	NS	NS	NS	NS	NS
		11/19/2007	--	-	99.73	NP	29.57	NP	70.16	NS	NS	NS	NS	NS	NS	NS
		6/12/2008	--	-	99.73	NP	28.94	NP	70.79	NS	NS	NS	NS	NS	NS	NS
		10/29/2008	--	-	99.73	NP	29.82	NP	69.91	NS	NS	NS	NS	NS	NS	NS
		5/15/2009	--	-	99.73	NP	28.81	NP	70.92	--	--	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-1_20100211	2/11/2010	--	-	99.73	NP	28.61	NP	71.12	--	--	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-1_20100831	9/2/2010	--	-	99.73	NP	26.70	NP	73.03	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-1_20110813	9/19/2011	--	-	99.73	NP	26.31	NP	73.42	<77	<380	<50.0	<1.0	<1.0	<1.0	<3.0

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SEATAC, WASHINGTON

Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA						
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000
MW-3		4/16/1991	--	-	98.89	NP	27.01	NP	71.88	--	--	--	--	--	--	--
		6/27/1991	--	-	98.89	NP	26.68	NP	72.21	--	--	--	--	--	--	--
		1/16/1992	--	-	98.89	NP	28.38	NP	70.51	--	--	<100	5	<1	5	5
		1/23/1992	--	-	98.89	NP	28.46	NP	70.43	--	--	--	--	--	--	--
		1/31/1992	--	-	98.89	NP	28.26	NP	70.63	--	--	--	--	--	--	--
		8/24/1993	--	-	98.89	NP	28.59	NP	70.30	--	--	--	--	--	--	--
		11/30/1993	--	-	98.89	NP	29.25	NP	69.64	--	--	<100	<0.5	<0.5	<0.5	<0.5
		3/7/1994	--	-	98.89	NP	29.60	NP	69.29	--	--	<100	1	<0.5	<0.5	<0.5
		7/14/1994	--	-	98.89	NP	29.08	NP	69.81	--	--	<100	1	<0.5	<0.5	<0.5
		10/21/1994	--	-	98.89	NP	29.32	NP	69.57	--	--	<100	1	<0.5	<0.5	1
		12/30/1994	--	-	98.89	NP	29.58	NP	69.31	--	--	<100	1	<0.5	1	1
		3/16/1995	--	-	98.89	NP	28.67	NP	70.22	--	--	<100	<0.5	<0.5	<0.5	<0.5
		6/22/1995	--	-	98.89	NP	28.14	NP	70.75	--	--	<100	<0.5	<0.5	<0.5	<0.5
		9/19/1995	--	-	98.89	NP	28.24	NP	70.65	--	--	<100	1	<0.5	<0.5	<0.5
		12/18/1995	--	-	98.89	NP	28.10	NP	70.79	--	--	<100	<0.5	<0.5	<0.5	<0.5
		3/14/1996	--	-	98.89	NP	26.95	NP	71.94	--	--	<100	<0.5	<0.5	<0.5	<0.5
		6/22/1996	--	-	98.89	NP	26.52	NP	72.37	--	--	<100	7	7	<0.5	4
		9/12/1996	--	-	98.89	NP	26.60	NP	72.29	--	--	<100	2	<0.5	<0.5	<0.5
		12/17/1996	--	-	98.89	NP	26.75	NP	72.14	--	--	130	6	3	<0.5	5
		3/18/1997	--	-	98.89	NP	25.33	NP	73.56	--	--	<100	<0.5	<0.5	<0.5	<1.5
		6/12/1997	--	-	98.89	NP	25.25	NP	73.64	--	--	<100	<0.5	<0.5	<0.5	<1.5
		9/10/1997	--	-	98.89	NP	25.91	NP	72.98	--	--	<100	<0.5	<0.5	<0.5	<1.5
		3/17/1998	--	-	98.89	NP	25.92	NP	72.97	--	--	<100	<0.5	<0.5	<0.5	<1.5
		6/16/1998	--	-	98.89	NP	26.33	NP	72.56	--	--	<100	<0.5	<0.5	<0.5	<1.5
		9/29/1998	--	-	98.89	NP	27.28	NP	71.61	--	--	--	--	--	--	--
		12/10/1998	--	-	98.89	NP	28.04	NP	70.85	--	--	--	--	--	--	--
		3/10/1999	--	-	98.89	NP	26.60	NP	72.29	--	--	--	--	--	--	--
		6/22/1999	--	-	98.89	NP	25.99	NP	72.90	--	--	<100	<1.0	<1.0	<1.0	<1.0
		9/28/1999	--	-	98.89	NP	26.88	NP	72.01	--	--	--	--	--	--	--
		3/30/2000	--	-	98.89	NP	26.74	NP	72.15	--	--	--	--	--	--	--
		6/27/2000	--	-	98.89	NP	26.40	NP	72.49	--	--	<50	<0.5	<0.5	<0.5	<0.5
		9/25/2000	--	-	98.89	NP	27.00	NP	71.89	--	--	--	--	--	--	--
		12/27/2000	--	-	98.89	NP	28.05	NP	70.84	--	--	--	--	--	--	--
		9/16/2001	--	-	98.89	NP	29.40	NP	69.49	--	--	--	--	--	--	--
		12/4/2001	--	-	98.89	NP	29.60	NP	69.29	--	--	940	25	5	<1.0	39
		3/14/2002	--	-	98.89	NP	28.54	NP	70.35	--	--	--	--	--	--	--
		6/9/2002	--	-	98.89	NP	28.00	NP	70.89	--	--	--	--	--	--	--

TABLE 2
HISTORIC GROUNDWATER GAUGING AND ANALYTICAL DATA
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Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA						
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000
MW-3		12/18/2002	--	-	98.89	NP	29.53	NP	69.36	NS	NS	NS	NS	NS	NS	NS
		6/3/2003	--	-	98.89	NP	28.64	NP	70.25	NS	NS	NS	NS	NS	NS	NS
		10/10/2003	--	-	98.89	NP	29.35	NP	69.54	NS	NS	NS	NS	NS	NS	NS
		4/26/2004	--	-	98.89	NP	28.21	NP	70.68	NS	NS	NS	NS	NS	NS	NS
		10/28/2004	--	-	98.89	NP	27.30	NP	71.59	NS	NS	NS	NS	NS	NS	NS
		4/27/2005	--	-	98.89	NP	28.98	NP	69.91	NS	NS	NS	NS	NS	NS	NS
		11/22/2005	--	-	98.89	NP	29.40	NP	69.49	NS	NS	NS	NS	NS	NS	NS
		4/25/2006	--	-	98.89	NP	28.40	NP	70.49	--	--	<50.0	<0.500	<0.500	<0.500	<1.00
		10/27/2006	--	-	98.89	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS
		4/4/2007	--	-	98.89	NP	27.39	NP	71.50	NS	NS	NS	NS	NS	NS	NS
		11/19/2007	--	-	98.89	NP	28.27	NP	70.62	NS	NS	NS	NS	NS	NS	NS
		6/12/2008	--	-	98.89	NP	27.54	NP	71.35	NS	NS	NS	NS	NS	NS	NS
		10/29/2008	--	-	98.89	NP	28.39	NP	70.50	NS	NS	NS	NS	NS	NS	NS
		5/15/2009	--	-	98.89	NP	27.30	NP	71.59	--	--	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-3_20100211	2/11/2010	--	-	98.89	NP	27.28	NP	71.61	--	--	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-3_20100831	9/2/2010	--	-	98.89	NP	26.22	NP	72.67	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-3_20110813	9/19/2011	--	-	98.89	NP	25.97	NP	72.92	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0

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Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA						
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000
MW-4		4/16/1991	--	-	98.28	NP	27.78	NP	70.50	--	--	--	--	--	--	--
		6/27/1991	--	-	98.28	NP	27.60	0.01	70.69	--	--	--	--	--	--	--
		12/30/1994	--	-	98.28	NP	44.66	NP	53.62	--	--	71000	8600	1200	10000	8400
		3/16/1995	--	-	98.28	NP	43.21	NP	55.07	--	--	40000	5600	560	7000	4100
		6/22/1995	--	-	98.28	NP	42.74	NP	55.54	--	--	--	--	--	--	--
		9/19/1995	--	-	98.28	NP	42.27	NP	56.01	--	--	2100	360	5	200	420
		12/18/1995	--	-	98.28	NP	42.48	NP	55.80	--	--	38000	3300	980	4900	6500
		3/14/1996	--	-	98.28	NP	40.75	NP	57.53	--	--	--	--	--	--	--
		6/22/1996	--	-	98.28	NP	39.91	0.01	58.37	--	--	--	--	--	--	--
		9/12/1996	--	-	98.28	NP	39.16	NP	59.12	--	--	--	--	--	--	--
		9/29/1998	--	-	98.28	NG	NG	NG	NG	--	--	14000	18	17	45	180
		12/10/1998	--	-	98.28	NG	NG	NG	NG	--	--	420	<1.0	<1.0	<1.0	22
		3/10/1999	--	-	98.28	NG	NG	NG	NG	--	--	2400	39	53	100	370
		6/22/1999	--	-	98.28	NG	NG	NG	NG	--	--	1500	31	21	57	200
		9/28/1999	--	-	98.28	NG	NG	NG	NG	--	--	610	12	9	19	82
		1/4/2000	--	-	98.28	NG	NG	NG	NG	--	--	270	23	7	18	62
		3/30/2000	--	-	98.28	NG	NG	NG	NG	--	--	280	8	6	11	52
		6/27/2000	--	-	98.28	NG	NG	NG	NG	--	--	1700	29	30	84	270
		9/25/2000	--	-	98.28	NG	NG	NG	NG	--	--	140	4	5.5	2.1	30
		12/27/2000	--	-	98.28	NP	23.29	NP	74.99	--	--	130	<1	<1	<1	<3
		9/16/2001	--	-	98.28	NP	43.52	NP	54.76	--	--	980	16	6.6	7.7	50
		12/4/2001	--	-	98.28	NP	43.60	NP	54.68	--	--	--	--	--	--	--
		3/14/2002	--	-	98.28	NP	42.23	NP	56.05	--	--	120	<1.0	<1.0	<1.0	6.3
		6/9/2002	--	-	98.28	NP	42.30	NP	55.98	--	--	<100	<1.0	<1.0	<1.0	<3.0
		12/18/2002	--	-	98.28	NP	42.60	NP	55.68	NS	NS	NS	NS	NS	NS	NS
		6/3/2003	--	-	98.28	NP	42.32	NP	55.96	--	--	<50.0	1.14	<0.500	<0.500	<1.00
		10/10/2003	--	-	98.28	NP	43.42	NP	54.86	NS	NS	NS	NS	NS	NS	NS
		4/26/2004	--	-	98.28	NP	41.91	NP	56.37	--	--	99	2.64	<0.500	4.16	18.3
		10/28/2004	--	-	98.28	NP	30.02	NP	68.26	NS	NS	NS	NS	NS	NS	NS
		4/27/2005	--	-	98.28	NP	42.43	NP	55.85	--	--	<80.0	5.99	<0.500	<0.500	1.49
		11/22/2005	--	-	98.28	NP	42.57	NP	55.71	--	--	176	10.4	2.71	2.82	17.3
		4/25/2006	--	-	98.28	NP	41.88	NP	56.40	--	--	539	13.2	5.08	19.6	119
		10/27/2006	--	-	98.28	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS
		4/4/2007	--	-	98.28	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS
		11/19/2007	--	-	98.28	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS
		6/12/2008	--	-	98.28	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS

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Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA						
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000	
MW-4		5/15/2009	--	-	98.28	NP	33.00	NP	65.28	--	--	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-4_20100211	2/11/2010	--	-	98.28	NP	40.52	NP	57.76	--	--	60.0	<1.0	<1.0	<1.0	<3.0
	MW-4_20100831	9/2/2010	--	-	98.28	NP	29.90	NP	68.38	110	<380	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-4_20110813	9/19/2011	--	-	98.28	NP	30.00	NP	68.28	<110	<570	<50.0	<1.0	<1.0	<1.0	<3.0

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Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA						
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000
MW-5		4/16/1991	--	-	97.75	NP	17.14	NP	80.61	--	--	--	--	--	--	--
		6/27/1991	--	-	97.75	NP	19.01	NP	78.74	--	--	--	--	--	--	--
		1/16/1992	--	-	97.75	NP	19.39	NP	78.36	--	--	<100	<1	<1	<1	<1
		1/23/1992	--	-	97.75	NP	19.29	NP	78.46	--	--	--	--	--	--	--
		1/31/1992	--	-	97.75	NP	19.62	NP	78.13	--	--	--	--	--	--	--
		8/24/1993	--	-	97.75	NP	20.72	NP	77.03	--	--	<5	<0.5	<0.5	<0.5	<0.5
		11/30/1993	--	-	97.75	NP	22.47	NP	75.28	--	--	<100	<0.5	<0.5	<0.5	<0.5
		3/7/1994	--	-	97.75	NP	20.45	NP	77.30	--	--	<100	<0.5	<0.5	<0.5	<0.5
		7/14/1994	--	-	97.75	NP	20.67	NP	77.08	400	--	<100	<0.5	<0.5	<0.5	<0.5
		10/21/1994	--	-	97.75	NP	21.48	NP	76.27	<260	--	<100	1	<0.5	<0.5	<0.5
		12/30/1994	--	-	97.75	NP	20.53	NP	77.22	<240	--	<100	<0.5	<0.5	<0.5	<0.5
		3/16/1995	--	-	97.75	NP	18.11	NP	79.64	<240	--	<100	<0.5	<0.5	<0.5	<0.5
		6/22/1995	--	-	97.75	NP	19.86	NP	77.89	<240	--	<100	<0.5	<0.5	<0.5	<0.5
		9/19/1995	--	-	97.75	NP	20.25	NP	77.50	--	--	<100	<0.5	<0.5	<0.5	<0.5
		12/18/1995	--	-	97.75	NP	17.99	NP	79.76	--	--	<100	<0.5	<0.5	<0.5	<0.5
		3/14/1996	--	-	97.75	NP	17.58	NP	80.17	--	--	<100	<0.5	<0.5	<0.5	<0.5
		6/22/1996	--	-	97.75	NP	18.41	NP	79.34	--	--	<100	<0.5	<0.5	<0.5	<0.5
		9/12/1996	--	-	97.75	NP	18.90	NP	78.85	--	--	<100	<0.5	<0.5	<0.5	<0.5
		12/17/1996	--	-	97.75	NP	17.29	NP	80.46	--	--	<100	<0.5	<0.5	<0.5	<1.5
		3/18/1997	--	-	97.75	NP	16.29	NP	81.46	--	--	<100	<0.5	<0.5	<0.5	<1.5
		6/12/1997	--	-	97.75	NP	17.42	NP	80.33	--	--	<100	<0.5	<0.5	<0.5	<1.5
		9/10/1997	--	-	97.75	NP	19.30	NP	78.45	--	--	<100	<0.5	<0.5	<0.5	<1.5
		3/17/1998	--	-	97.75	NP	17.03	NP	80.72	--	--	<100	<0.5	<0.5	<0.5	<1.5
		6/16/1998	--	-	97.75	NP	18.86	NP	78.89	--	--	<100	<0.5	<0.5	<0.5	<1.5
		9/29/1998	--	-	97.75	NP	20.30	NP	77.45	--	--	--	--	--	--	--
		12/10/1998	--	-	97.75	NP	20.13	NP	77.62	--	--	--	--	--	--	--
		3/10/1999	--	-	97.75	NP	16.96	NP	80.79	--	--	--	--	--	--	--
		6/22/1999	--	-	97.75	NP	18.96	NP	78.79	--	--	--	--	--	--	--
		9/28/1999	--	-	97.75	NP	20.79	NP	76.96	--	--	--	--	--	--	--
		1/4/2000	--	-	97.75	NP	18.55	NP	79.20	--	--	--	--	--	--	--
		3/30/2000	--	-	97.75	NP	17.94	NP	79.81	--	--	--	--	--	--	--
		6/27/2000	--	-	97.75	NP	18.98	NP	78.77	--	--	--	--	--	--	--
		9/25/2000	--	-	97.75	NP	20.47	NP	77.28	--	--	--	--	--	--	--
		12/27/2000	--	-	97.75	NP	26.46	NP	71.29	--	--	--	--	--	--	--
		9/16/2001	--	-	97.75	NP	21.63	NP	76.12	--	--	--	--	--	--	--
		12/4/2001	--	-	97.75	NG	NG	NG	NG	--	--	--	--	--	--	--

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			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000
MW-5		3/14/2002	--	-	97.75	NG	NG	NG	NG	--	--	--	--	--	--	--
		6/9/2002	--	-	97.75	NP	20.22	NP	77.53	--	--	--	--	--	--	--
		12/18/2002	--	-	97.75	NP	22.50	NP	75.25	NS	NS	NS	NS	NS	NS	NS
		6/3/2003	--	-	97.75	NP	19.29	NP	78.46	NS	NS	NS	NS	NS	NS	NS
		10/10/2003	--	-	97.75	NP	22.22	NP	75.53	NS	NS	NS	NS	NS	NS	NS
		4/26/2004	--	-	97.75	NP	31.13	NP	66.62	NS	NS	NS	NS	NS	NS	NS
		10/28/2004	--	-	97.75	NP	27.98	NP	69.77	NS	NS	NS	NS	NS	NS	NS
		4/27/2005	--	-	97.75	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS
		11/22/2005	--	-	97.75	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS
		4/25/2006	--	-	97.75	NP	29.70	NP	68.05	NS	NS	NS	NS	NS	NS	NS
		10/27/2006	--	-	97.75	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS
		4/4/2007	--	-	97.75	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS
		11/19/2007	--	-	97.75	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS
		6/12/2008	--	-	97.75	NP	19.70	NP	78.05	NS	NS	NS	NS	NS	NS	NS
		10/29/2008	--	-	97.75	NP	21.15	NP	76.60	NS	NS	NS	NS	NS	NS	NS
		5/15/2009	--	-	97.75	NP	18.21	NP	79.54	--	--	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-5_20100211	2/11/2010	--	-	97.75	NP	17.76	NP	79.99	--	--	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-5_20100831	9/2/2010	--	-	97.75	NP	19.50	NP	78.25	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-5_20110813	9/19/2011	--	-	97.75	NP	19.85	NP	77.90	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0

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Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA						
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000
MW-6		1/16/1992	--	-	98.77	NP	31.12	NP	67.65	--	--	9100	240	260	210	14000
		1/23/1992	--	-	98.77	NP	31.25	NP	67.52	--	--	--	--	--	--	--
		1/31/1992	--	-	98.77	NP	31.32	NP	67.45	--	--	--	--	--	--	--
		8/24/1993	--	-	98.77	NP	30.96	NP	67.81	--	--	81000	11000	2800	11000	16000
		11/30/1993	--	-	98.77	NP	31.23	NP	67.54	--	--	39000	5800	1100	4700	6100
		3/7/1994	--	-	98.77	31.78	31.84	0.06	66.98	--	--	--	--	--	--	--
		7/14/1994	--	-	98.77	31.54	31.77	0.23	67.17	--	--	--	--	--	--	--
		10/21/1994	--	-	98.77	31.83	31.95	0.12	66.91	--	--	--	--	--	--	--
		12/30/1994	--	-	98.77	29.53	32.46	2.93	68.51	--	--	--	--	--	--	--
		3/16/1995	--	-	98.77	30.51	30.57	0.06	68.25	--	--	--	--	--	--	--
		6/22/1995	--	-	98.77	30.7	30.75	0.05	68.06	--	--	--	--	--	--	--
		9/19/1995	--	-	98.77	30.66	30.68	0.02	68.11	--	--	--	--	--	--	--
		12/18/1995	--	-	98.77	29.76	29.78	0.02	69.01	--	--	--	--	--	--	--
		3/14/1996	--	-	98.77	NP	28.51	NP	70.26	--	--	--	--	--	--	--
		6/22/1996	--	-	98.77	28.54	28.56	0.02	70.23	--	--	--	--	--	--	--
		9/12/1996	--	-	98.77	27.83	27.85	0.02	70.94	--	--	--	--	--	--	--
		12/17/1996	--	-	98.77	28.98	28.99	0.01	69.79	--	--	--	--	--	--	--
		3/17/1998	--	-	98.77	NG	NG	NG	NG	--	--	66500	3800	2600	4100	15300
		9/29/1998	--	-	98.77	NG	NG	NG	NG	--	--	79000	1900	2500	1200	14000
		12/10/1998	--	-	98.77	NG	NG	NG	NG	--	--	68000	1000	2100	630	12000
		3/10/1999	--	-	98.77	NG	NG	NG	NG	--	--	60000	1200	2000	650	10000
		6/22/1999	--	-	98.77	NG	NG	NG	NG	--	--	56000	590	1700	370	10000
		9/28/1999	--	-	98.77	NG	NG	NG	NG	--	--	34000	420	190	280	10000
		1/4/2000	--	-	98.77	NG	NG	NG	NG	--	--	24000	590	1600	340	9600
		3/30/2000	--	-	98.77	NG	NG	NG	NG	--	--	31000	170	1300	190	7900
		6/27/2000	--	-	98.77	NG	NG	NG	NG	--	--	22000	92	1000	120	6100
		9/25/2000	--	-	98.77	NG	NG	NG	NG	--	--	26000	130	1100	170	6300
		12/27/2000	--	-	98.77	NP	29.87	NP	68.90	--	--	26000	73	910	88	5100
		9/16/2001	--	-	98.77	NP	31.51	NP	67.26	--	--	36000	54	1100	35	4800
		12/4/2001	--	-	98.77	31.92	31.95	0.03	66.84	--	--	43000	66	1300	220	6700
		3/14/2002	--	-	98.77	NP	31.52	NP	67.25	--	--	55000	80	1600	190	8700
		6/9/2002	--	-	98.77	NP	30.47	NP	68.30	--	--	1500	<1.0	25	1.8	140
		12/18/2002	--	-	98.77	NP	31.55	NP	67.22	--	--	22300	16.4	306	10	1740
		6/3/2003	--	-	98.77	NP	31.51	NP	67.26	--	--	28200	216	914	70	4620
		10/10/2003	--	-	98.77	NP	31.73	NP	67.04	--	--	19700	117	407	19.4	2330
		4/26/2004	--	-	98.77	NP	31.22	NP	67.55	--	--	25000	454	595	22.6	3600

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Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA							
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)	
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000		
MW-6		10/28/2004	--	-	98.77	NP	31.38	NP	67.39	--	--	20500	580	719	15.4	3050	
		4/27/2005	--	-	98.77	NP	31.67	NP	67.10	--	--	16800	541	594	7	2270	
		11/22/2005	--	-	98.77	NP	31.70	NP	67.07	--	--	29100	792	595	7.95	2290	
		4/25/2006	--	-	98.77	NP	30.98	NP	67.79	--	--	27500	819	554	<20.0	2130	
		10/27/2006	--	-	98.77	NP	31.11	NP	67.66	--	--	31200	879	677	13.8	2340	
		4/4/2007	--	-	98.77	NP	30.09	NP	68.68	--	--	44300	772	867	16.7	5740	
		11/19/2007	--	-	98.77	NP	31.05	NP	67.72	--	--	30200	748	966	25.6	3510	
		6/12/2008	--	-	98.77	NP	29.92	NP	68.85	--	--	43400	251	733	9.81	3310	
		10/29/2008	--	-	98.77	NP	31.07	NP	67.70	--	--	36100	336	842	15.4	2370	
		5/15/2009	--	-	98.77	NP	29.86	NP	68.91	--	--	48400	373	12	853	3400	
		MW-6_20100211	2/11/2010	--	-	98.77	NP	29.88	NP	68.89	--	--	33000	279	705	18.5	2560
		MW-6_20100831	9/2/2010	--	-	98.77	NP	28.74	NP	70.03	1500	<380	35500	785	1740	980	7220
		MW-6_20110813	9/19/2011	--	-	98.77	NP	28.42	NP	70.35	950	<380	45700	191	1390	26.8	5280

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HISTORIC GROUNDWATER GAUGING AND ANALYTICAL DATA
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Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA						
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000
MW-7		1/16/1992	--	-	98.42	NP	29.30	NP	69.12	--	--	3500	610	1000	6900	6600
		1/23/1992	--	-	98.42	NP	29.33	NP	69.09	--	--	--	--	--	--	--
		1/31/1992	--	-	98.42	NP	29.22	NP	69.20	--	--	--	--	--	--	--
		8/24/1993	--	-	98.42	29.66	29.76	0.10	68.74	--	--	--	--	--	--	--
		11/30/1993	--	-	98.42	30.3	30.34	0.04	68.11	--	--	--	--	--	--	--
		3/7/1994	--	-	98.42	30.96	31.23	0.27	67.39	--	--	--	--	--	--	--
		7/14/1994	--	-	98.42	30.71	30.85	0.14	67.68	--	--	--	--	--	--	--
		10/21/1994	--	-	98.42	30.98	31.18	0.20	67.39	--	--	--	--	--	--	--
		12/30/1994	--	-	98.42	26.08	31.25	5.17	71.05	--	--	--	--	--	--	--
		3/16/1995	--	-	98.42	31.5	31.98	0.48	66.80	--	--	--	--	--	--	--
		6/22/1995	--	-	98.42	29.24	30.86	1.62	68.78	--	--	--	--	--	--	--
		9/19/1995	--	-	98.42	29.34	29.82	0.48	68.96	--	--	--	--	--	--	--
		12/18/1995	--	-	98.42	29.35	29.50	0.15	69.03	--	--	--	--	--	--	--
		3/14/1996	--	-	98.42	NP	27.80	NP	70.62	--	--	--	--	--	--	--
		6/22/1996	--	-	98.42	27.76	27.81	0.05	70.65	--	--	--	--	--	--	--
		9/12/1996	--	-	98.42	28.58	28.59	0.01	69.84	--	--	--	--	--	--	--
		12/17/1996	--	-	98.42	28.19	28.22	0.03	70.22	--	--	--	--	--	--	--
		3/17/1998	--	-	98.42	NG	NG	NG	NG	--	--	55300	290	1100	1200	7400
		9/29/1998	--	-	98.42	NG	NG	NG	NG	--	--	25000	61	530	220	3300
		12/10/1998	--	-	98.42	NG	NG	NG	NG	--	--	31000	81	740	260	4700
		3/10/1999	--	-	98.42	NG	NG	NG	NG	--	--	43000	<50	760	270	4600
		6/22/1999	--	-	98.42	NG	NG	NG	NG	--	--	32000	<50	590	200	3700
		9/28/1999	--	-	98.42	NG	NG	NG	NG	--	--	33000	110	72	230	4300
		1/4/2000	--	-	98.42	NG	NG	NG	NG	--	--	17000	240	750	400	4100
		3/30/2000	--	-	98.42	NG	NG	NG	NG	--	--	20000	10	520	170	3100
		6/27/2000	--	-	98.42	NG	NG	NG	NG	--	--	17000	9	470	130	2700
		9/25/2000	--	-	98.42	NG	NG	NG	NG	--	--	13000	5.4	330	110	1900
		12/27/2000	--	-	98.42	NP	29.07	NP	69.35	--	--	16000	12	360	120	2100
		9/16/2001	--	-	98.42	31.54	31.67	0.13	66.85	--	--	--	--	--	--	--
		12/4/2001	--	-	98.42	31.85	31.95	0.10	66.55	--	--	32000	260	810	120	4600
		3/14/2002	--	-	98.42	NP	31.01	NP	67.41	--	--	31000	160	810	140	3800
		6/9/2002	--	-	98.42	NP	30.42	NP	68.00	--	--	28000	190	920	170	4800
		12/18/2002	--	-	98.42	31.34	31.35	0.01	67.08	--	--	31100	236	924	102	4770
		6/3/2003	--	-	98.42	30.9	30.91	0.01	67.52	--	--	26600	97.4	887	44.2	4890
		10/10/2003	--	-	98.42	31.24	31.29	0.05	67.17	--	--	40000	164	1350	57.5	7740
		4/26/2004	--	-	98.42	NP	29.85	NP	68.57	--	--	37900	207	1080	76.9	5850

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Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA						
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000
MW-7		10/28/2004	--	-	98.42	31.52	31.56	0.04	66.89	--	--	17700	178	644	38.2	2710
		4/27/2005	--	-	98.42	30.06	31.35	1.29	68.04	--	--	88600	160	1460	37.8	7340
		11/22/2005	--	-	98.42	30.76	30.77	0.01	67.66	--	--	33400	194	1130	25.8	5360
		4/25/2006	--	-	98.42	NP	29.60	NP	68.82	--	--	35400	242	998	36.4	4930
		10/27/2006	--	-	98.42	NP	29.95	NP	68.47	--	--	27900	140	704	40.8	3830
		4/4/2007	--	-	98.42	NP	28.88	NP	69.54	--	--	3000	8	116	<5.00	133
		11/19/2007	--	-	98.42	NP	29.42	NP	69.00	--	--	23900	41.1	808	31.4	3340
		6/12/2008	--	-	98.42	NP	28.70	NP	69.72	--	--	1200	0.52	17.9	0.54	4.2
		10/29/2008	--	-	98.42	NP	29.36	NP	69.06	--	--	13300	7.52	363	11.6	1320
		5/15/2009	--	-	98.42	NP	28.62	NP	69.80	--	--	10200	3.7	7.9	359	1150
	MW-7_20100211	2/11/2010	--	-	98.42	NP	28.66	NP	69.76	--	--	2860	1.3	121	2.6	284
	MW-7_20100831	9/2/2010	--	-	98.42	NP	27.62	NP	70.80	120	<380	1130	<1.0	38.8	<1.0	59.7
	MW-7_20110813	9/19/2011	--	-	98.42	NP	27.29	NP	71.13	150	<380	2780	3.0	77.3	11.4	142

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HISTORIC GROUNDWATER GAUGING AND ANALYTICAL DATA
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SEATAC, WASHINGTON

Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA							
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)	
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000	
MW-8		1/16/1992	--	-	98.8	NP	49.00	NP	49.80	--	--	--	--	--	--	--	
		1/23/1992	--	-	98.8	NP	49.17	NP	49.63	--	--	--	--	--	--	--	
		1/31/1992	--	-	98.8	NP	50.00	NP	48.80	--	--	--	--	--	--	--	
		3/17/1998	--	-	98.8	NG	NG	NG	NG	--	--	6000	120	34	46	280	
		9/29/1998	--	-	98.8	NG	NG	NG	NG	--	--	1600	180	41	89	170	
		12/10/1998	--	-	98.8	NG	NG	NG	NG	--	--	25000	2300	500	4500	2600	
		3/10/1999	--	-	98.8	NG	NG	NG	NG	--	--	14000	1000	420	1500	1500	
		6/22/1999	--	-	98.8	NG	NG	NG	NG	--	--	3700	66	190	9	340	
		9/28/1999	--	-	98.8	NG	NG	NG	NG	--	--	760	55	65	20	130	
		1/4/2000	--	-	98.8	NG	NG	NG	NG	--	--	690	49	6	25	18	
		6/27/2000	--	-	98.8	NG	NG	NG	NG	--	--	1800	260	84	87	300	
		12/27/2000	--	-	98.8	NP	46.57	NP	52.23	--	--	360	87	<1	25	20	
		9/16/2001	--	-	98.8	NP	48.87	NP	49.93	--	--	--	--	--	--	--	
		12/4/2001	--	-	98.8	NP	49.09	NP	49.71	--	--	--	--	--	--	--	
		3/14/2002	--	-	98.8	NP	47.87	NP	50.93	--	--	4100	470	89	140	360	
		6/9/2002	--	-	98.8	NP	47.39	NP	51.41	--	--	25000	3200	830	1700	2900	
		12/18/2002	--	-	98.8	NP	48.03	NP	50.77	--	--	2530	389	65.4	77.1	256	
		6/3/2003	--	-	98.8	NP	48.03	NP	50.77	--	--	3820	974	120	72.2	286	
		10/10/2003	--	-	98.8	NP	48.50	NP	50.30	--	--	9190	1980	314	622	1490	
		4/26/2004	--	-	98.8	NP	41.01	NP	57.79	--	--	15800	2340	563	450	2110	
		10/28/2004	--	-	98.8	NP	48.50	NP	50.30	--	--	24500	5360	1350	246	3910	
		4/27/2005	--	-	98.8	NP	48.43	NP	50.37	--	--	2250	310	65.3	24.7	166	
		11/22/2005	--	-	98.8	dry	dry	dry	dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
		4/25/2006	--	-	98.8	NP	48.40	NP	50.40	--	--	21700	3100	907	44.4	2130	
		10/27/2006	--	-	98.8	dry	dry	dry	dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
		4/4/2007	--	-	98.8	NP	48.17	NP	50.63	--	--	14300	1820	749	29.7	261	
		11/19/2007	--	-	98.8	NP	47.59	NP	51.21	--	--	227	35.1	3.42	1.32	5.34	
		6/12/2008	--	-	98.8	NP	47.32	NP	51.48	--	--	15100	1650	648	191	1140	
		10/29/2008	--	-	98.8	NP	47.16	NP	51.64	--	--	<50.0	<0.500	<0.500	<0.500	<3.00	
		5/15/2009	--	-	98.8	NP	46.45	NP	52.35	--	--	139	15.3	<1.0	<1.0	5.8	
		MW-8_20100211	2/11/2010	--	-	98.8	NP	46.41	NP	52.39	--	--	6690	1240	621	141	607
		MW-8_20100831	9/2/2010	--	-	98.8	NP	46.64	NP	52.16	850	<380	14000	1490	1060	325	2520
		MW-8_20110813	9/19/2011	--	-	98.8	NP	47.00	NP	51.80	1100	1200	23900	826	812	44.2	1880

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Well I.D.	Lab I.D.	Date	GROUND WATER GAUGING DATA							GROUND WATER ANALYTICAL DATA						
			DTB from TOC (ft)	TOS Elevation (ft)	TOC Elevation (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	NW-DRO (C12-C24) (UG/L)	NW-ORO (C24-C40) (UG/L)	NW-GRO (C6-C12) (UG/L)	Benzene (UG/L)	Ethylbenzene (UG/L)	Toluene (UG/L)	Xylene (Total) (UG/L)
Applied Action Level: 2007 MTCA Method A			NGV	NGV	NGV	NGV	NGV	NGV	NGV	500	500	800	5	700	1000	1000
MW-9	MW-9_20100831	9/2/2010	--	-	NSVD	NP	28.90	NP	NSVD	270	<380	1760	190	159	3.6	38.6
	MW-9_20110813	9/19/2011	--	-	98.99	NP	28.60	NP	70.39	780	<380	11100	134	569	<10.0	553
MW-10	MW-10_20100831	9/2/2010	--	-	NSVD	NP	28.23	NP	NSVD	1700	<380	43300	5.3	2100	57.7	9650
	MW-10_20110813	9/19/2011	--	-	98.51	NP	27.90	NP	70.61	520	<390	7270	1.5	131	2.6	477
MW-11	MW-11_20100831	9/2/2010	--	-	NSVD	NP	27.12	NP	NSVD	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-11_20110813	9/19/2011	--	-	98.11	NP	26.87	NP	71.24	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0
MW-12	MW-12_20100831	9/2/2010	--	-	NSVD	NP	26.40	NP	NSVD	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-12_20110813	9/19/2011	--	-	97.76	NP	26.42	NP	71.34	<77	<380	<50.0	<1.0	<1.0	<1.0	<3.0
MW-13	MW-13_20100831	9/2/2010	--	-	NSVD	NP	26.68	NP	NSVD	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0
	MW-13_20110813	9/19/2011	--	-	97.33	NP	26.37	NP	70.96	<76	<380	<50.0	<1.0	<1.0	<1.0	<3.0
MW-14	MW-14_20110813	8/16/2011	--	-	99.2	NP	28.31	NP	70.89	540	<380	17900	172	731	50.4	2740
MW-15	MW-15_20110813	8/16/2011	--	-	98.49	NP	26.70	NP	71.79	<80	<400	62.7	<1.0	<1.0	<1.0	<3.0
MW-16	MW-16_20110813	9/19/2011	--	-	98.35	NP	27.82	NP	70.53	1000	<380	67900	1630	1780	4250	9320
MW-17	MW-17_20110813	9/19/2011	--	-	99.39	NP	28.47	NP	70.92	1200	<390	41300	176	1270	67.1	4830

Gauging Notes:

TOC - Top of Casing
DTB from TOC - Depth to Bottom of well from Top of Casing
TOS - Top of Screen
ft - Feet
NP - LNAPL not present
LNAPL - Light non-aqueous phase liquid
* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
NG - Not Gauged
NSVD - Not surveyed
-- - No information available
NGV - No guidance value

Analytical Notes:

Results in Bold exceed applicable action limits
< - Not detected at or above indicated laboratory reporting limit
UG/L - micrograms/liter
NW-GRO - Northwest Gasoline Range Organics using Ecology NWTPH-Gx
NW-DRO - Northwest Diesel Range Organics
NW-ORO - Northwest Oil Range Organics
NW-DRO and NW-ORO Analyzed using Ecology Method NWTPH-Dx with silica gel cleanup
B = benzene, T = toluene, E = ethylbenzene, X = xylenes; analyzed using EPA Method 8260
MTBE = methyl tert-butyl ether analyzed using EPA Method 8260
EPA - Environmental Protection Agency
MTCA = Model Toxics Control Act

TABLE 3
GROUNDWATER GEOCHEMICAL DATA
Facility No. 2611255
19924 International Boulevard
SeaTac, Washington

		FIELD PARAMETERS						MNA PARAMETERS							
Sample I.D.	Sample Date	Temperature (°C)	Conductivity (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP (mV)	Ferrous Iron*	Iron (µg/L)	Manganese (µg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)	Nitrogen as Nitrate (mg/L)	Nitrogen, NO2 + NO3 (mg/L)	Nitrite as N (mg/L)
MW-1	02/10/12	13.15	0.154	0.129	2.73	7.46	46.3	NM	NA	NA	NA	NA	NA	NA	NA
	08/01/12	16.80	0.254	0.16	3.18	6.29	61	NM	NA	NA	NA	NA	NA	NA	NA
MW-3	02/09/12	13.26	0.284	0.238	1.01	NM	42.1	0.4	<100	<15.0	133	14.9	1.0	1.0	<0.010
	08/01/12	15.50	0.897	0.59	0.5	6.47	175	NM	NA	NA	NA	NA	NA	NA	NA
MW-4	02/10/12	11.78	0.161	0.140	2.15	7.71	34.1	NM	NA	NA	NA	NA	NA	NA	NA
	08/01/12	15.80	0.288	0.19	6.43	6.57	11	NM	NA	NA	NA	NA	NA	NA	NA
MW-5	02/10/12	12.77	0.162	0.137	4.89	7.45	49.9	NM	NA	NA	NA	NA	NA	NA	NA
	08/01/12	13.3	0.336	0.210	7.15	6.19	207	1.5	<100	<15.0	37.6	18	NA	NA	NA
MW-6	02/09/12	12.78	0.238	0.202	1.17	NM	45.1	0.8	2,700	2,910	132	<1.0	<0.050	<0.050	<0.010
	08/01/12	16.20	0.514	0.33	0.74	6.72	-66	NM	NA	NA	NA	NA	NA	NA	NA
MW-7	02/09/12	13.56	0.327	0.272	0.87	NM	39.4	1.6	1,300	3,420	166	12.7	<0.050	<0.050	<0.010
	08/01/12	15.90	0.999	1.64	0.00	6.73	-62	2.0	1,720	3,350	189	11.8	NA	NA	NA
MW-8	02/09/12	NM	NM	NM	NM	NM	NM	NA	6,560	2,660	142	<1.0	<0.050	<0.050	<0.010
	08/01/12	15.30	0.421	0.27	1.02	6.60	-55	NM	NA	NA	NA	NA	NA	NA	NA
MW-9	02/09/12	13.89	0.326	0.269	0.98	NM	44.2	3.9	146,000	5,540	181	<1.0	<0.050	<0.050	<0.010
	08/01/12	16.70	0.735	0.48	1.1	6.57	-77	NM	NA	NA	NA	NA	NA	NA	NA
MW-10	02/09/12	13.43	0.354	0.295	1.01	NM	39.1	2.4	8,740	3,260	193	<1.0	<0.050	<0.050	<0.010
	08/01/12	15.70	0.999	2.44	0.00	6.67	-92	2.2	4,350	4,410	210	25.2	NA	NA	NA
MW-11	02/10/12	13.10	0.248	0.208	0.84	7.56	42.4	NM	NA	NA	NA	NA	NA	NA	NA
	08/01/12	15.50	0.490	0.32	0.02	6.71	-39	NM	NA	NA	NA	NA	NA	NA	NA
MW-12	02/10/12	13.69	0.258	0.214	1.98	7.44	44.7	NM	NA	NA	NA	NA	NA	NA	NA
	08/01/12	14.70	0.999	0.30	0.90	6.42	175	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	02/09/12	13.74	0.309	0.256	1.28	7.93	42.9	0	170	<15.0	121	26.3	2.9	2.9	<0.010
	08/01/12	14.70	0.999	1.36	0.00	6.32	170	NM	NA	NA	NA	NA	NA	NA	NA

TABLE 3
GROUNDWATER GEOCHEMICAL DATA
 Facility No. 2611255
 19924 International Boulevard
 SeaTac, Washington

Sample I.D.	Sample Date	Temperature (°C)	Conductivity (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP (mV)	Ferrous Iron*	Iron (µg/L)	Manganese (µg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)	Nitrogen as Nitrate (mg/L)	Nitrogen, NO2 + NO3 (mg/L)	Nitrite as N (mg/L)
MW-14	02/09/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/01/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15	02/09/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/01/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16	02/09/12	12.23	0.245	0.211	0.99	NM	38.7	4.1	3,580	2,410	114	<1.0	<0.050	<0.050	<0.010
	08/01/12	14.70	0.526	0.34	1.95	6.77	-71	NM	NA	NA	NA	NA	NA	NA	NA
MW-17	02/09/12	13.37	0.270	0.226	1.79	NM	42.7	NM	110,000	5,150	145	<1.0	<0.050	<0.050	<0.010
	08/01/12	16.40	0.618	0.39	0.79	6.66	-43	1.8	1,150	3,590	220	1.15	NA	NA	NA

Notes:

µg/L = micrograms per liter

mg/L = milligram per liter

* = Ferrous Iron measured in field.

<n = Below the detection limit

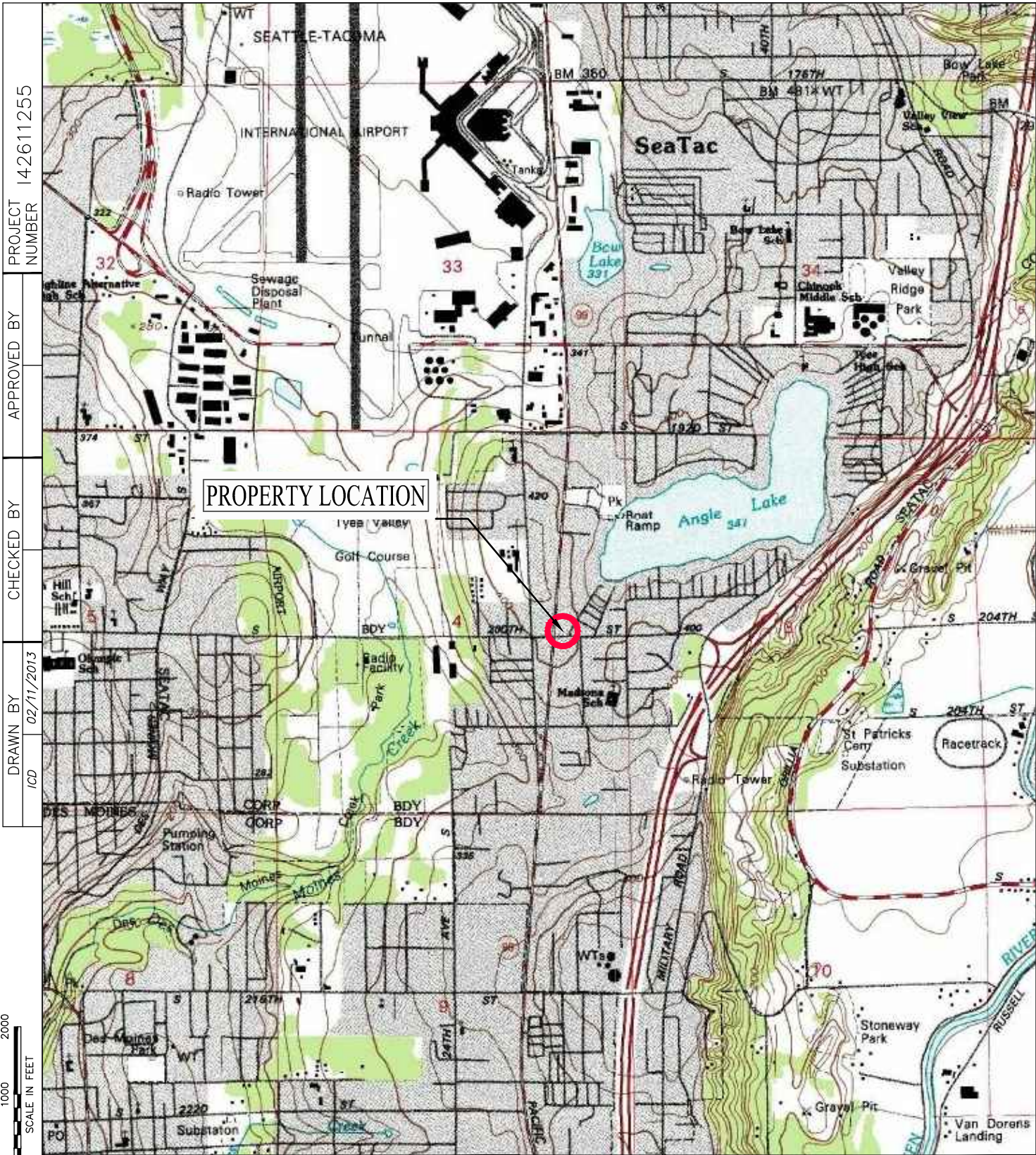
NA = Not Analyzed

Iron , Lead, dissolved lead, and dissolved lead analyzed by method EPA 6010.

Alkalinity analyzed by method SM2320B.

Sulfate analyzed by method EPA 300.0.

Nitrogen analyzed by method EPA 353.2.



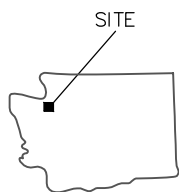
PROJECT NUMBER 142611255

APPROVED BY

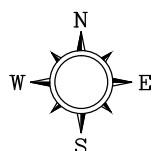
CHECKED BY

DRAWN BY
ICD 02/11/2013

0 1000 2000
SCALE IN FEET



LATITUDE 47D 25M 22S NORTH
LONGITUDE 122D 17M 45S WEST

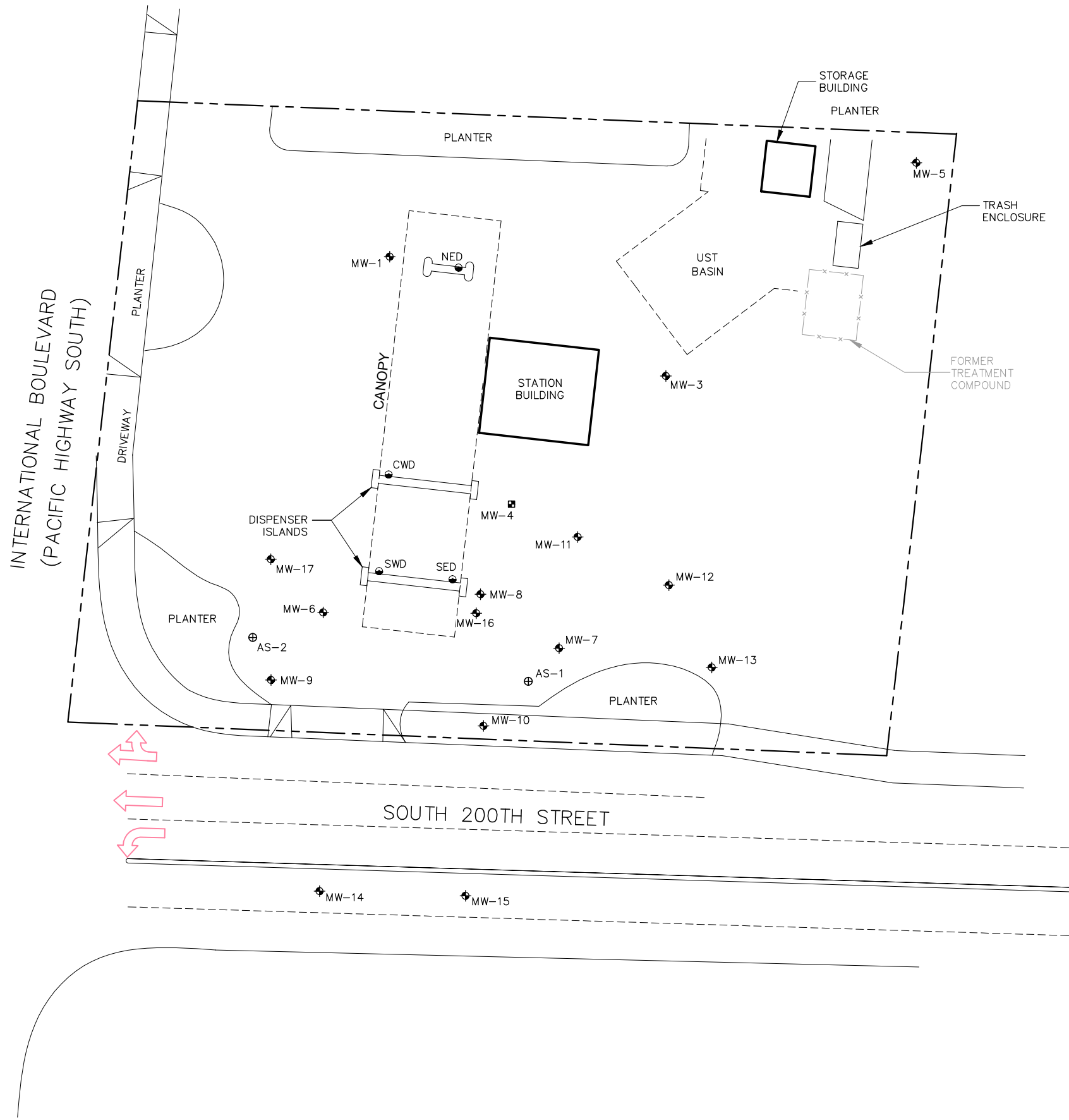


FACILITY No. 2611255

FIGURE 1

PROPERTY LOCATION MAP

19924 INTERNATIONAL BOULEVARD
SEATAC, WASHINGTON



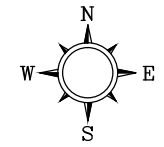
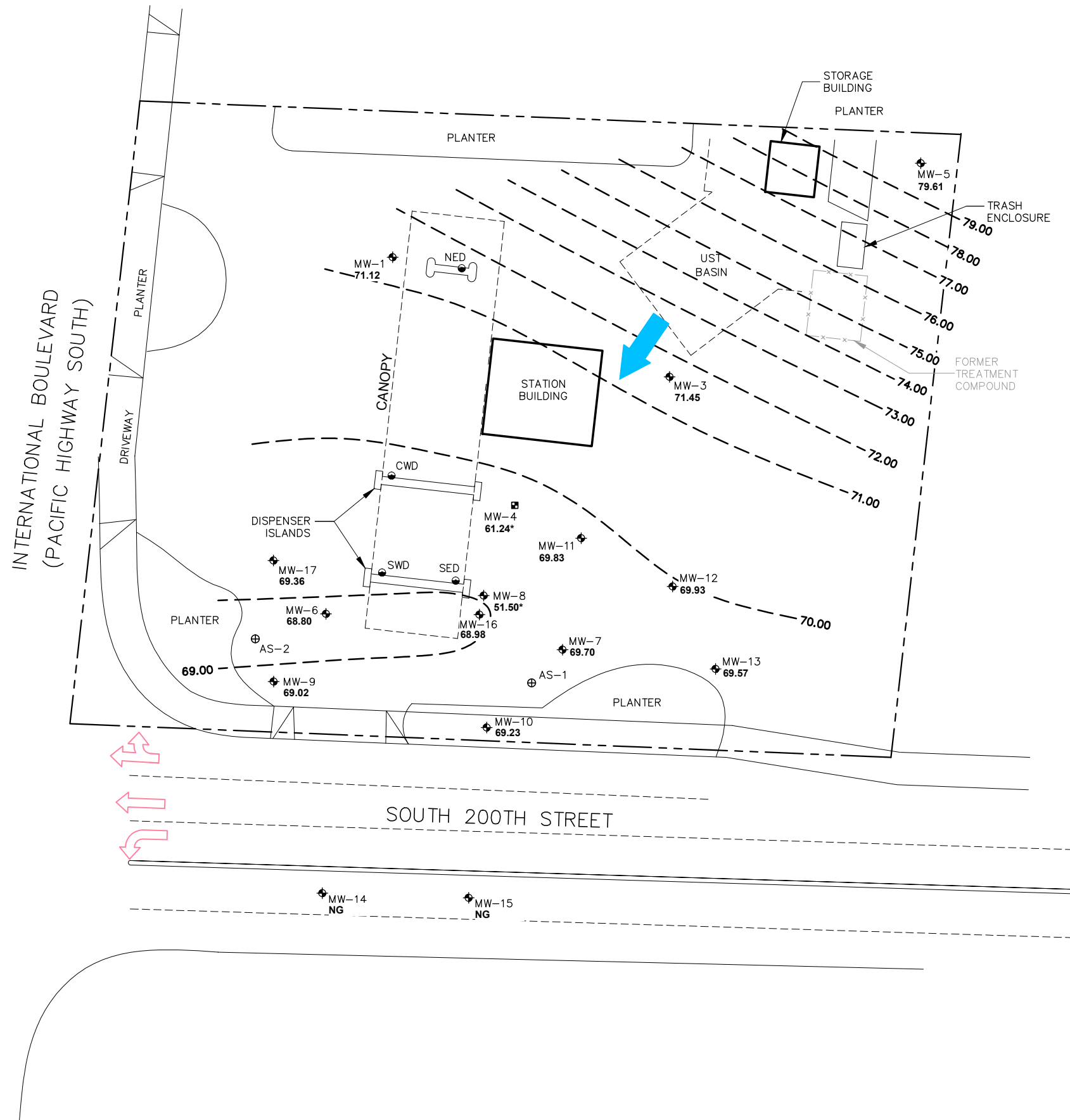
- LEGEND**
- PROPERTY LINE
 - MW-1 ◆ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - MW-4 ■ RECOVERY WELL LOCATION AND DESIGNATION
 - NED ● SOIL SAMPLE LOCATION (EMCON)
 - AS-1 ⊕ AIR SPARGE WELL LOCATION AND DESIGNATION

0 15 30
SCALE IN FEET



FIGURE 2
PROPERTY MAP

FACILITY No. 2611255
19924 INTERNATIONAL BOULEVARD
SEATAC, WASHINGTON



LEGEND	
---	PROPERTY LINE
MW-1	GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
MW-4	RECOVERY WELL LOCATION AND DESIGNATION
NED	SOIL SAMPLE LOCATION (EMCON)
AS-1	AIR SPARGE WELL LOCATION AND DESIGNATION
79.61	GROUNDWATER ELEVATION (FEET)
76.00	GROUNDWATER ELEVATION CONTOUR LINE (FEET)
	CONTOUR INTERVAL=1.00 FEET
←	APPROXIMATE GROUNDWATER FLOW DIRECTION
*	NOT USED IN CONTOURING
NG	NOT GAUGED

NOTES

MW-1, MW-4, MW-5, MW-11 AND MW-12 GAUGED ON 02/10/2012

0 15 30
SCALE IN FEET



FIGURE 3

GROUNDWATER ELEVATION CONTOUR MAP
02/09/2012 AND 02/10/2012

FACILITY No. 2611255
19924 INTERNATIONAL BOULEVARD
SEATAC, WASHINGTON

142611255 1203 2.DWG

FACILITY No. 2611255
19924 INTERNATIONAL BOULEVARD
SEATAC, WASHINGTON

February 23, 2012

Bryan Taylor
Antea USA
4006 148th Ave. NE
Redmond, WA 98052

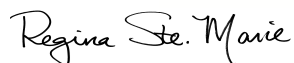
RE: Project: 2611255
Pace Project No.: 2510814

Dear Bryan Taylor:

Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Regina SteMarie

regina.stemarie@pacelabs.com
Project Manager

Enclosures

cc: Thuan Bui, Antea USA
Eric Larsen, Antea USA
Megan MacDonald, Antea USA
Justin Miller, ELT_Antea Group, Washington
Matthew Miller, ELT_Antea Group, Washington
Joe Rounds, Antea USA
Dan Rowlands, Antea USA
Hitomi Somics, Antea USA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2611255

Pace Project No.: 2510814

Washington Certification IDs

940 South Harney Street, Seattle, WA 98108

Alaska CS Certification #: UST-025

Arizona Certification #: AZ0770

California Certification #: 01153CA

Florida/NELAP Certification #: E87617

Oregon Certification #: WA200007

Washington Certification #: C555

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2611255
Pace Project No.: 2510814

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2510814001	MW-10_20120207	NWTPH-Dx	AY1	4	PASI-S
		EPA 6010	BGA	2	PASI-S
		EPA 5030B/8260	ERB	8	PASI-S
		NWTPH-Gx	ERB	2	PASI-S
		SM 2320B	KMT	1	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	CMS	1	PASI-S
2510814002	MW-13_20120207	NWTPH-Dx	AY1	4	PASI-S
		EPA 6010	BGA	2	PASI-S
		EPA 5030B/8260	ERB	8	PASI-S
		NWTPH-Gx	ERB	2	PASI-S
		SM 2320B	KMT	1	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	CMS	1	PASI-S
2510814003	MW-16_20120207	NWTPH-Dx	AY1	4	PASI-S
		EPA 6010	BGA	2	PASI-S
		EPA 5030B/8260	ERB	8	PASI-S
		NWTPH-Gx	ERB	2	PASI-S
		SM 2320B	KMT	1	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	CMS	1	PASI-S
2510814004	MW-17_20120207	NWTPH-Dx	AY1	4	PASI-S
		EPA 6010	BGA	2	PASI-S
		EPA 5030B/8260	ERB, LPM	8	PASI-S
		NWTPH-Gx	ERB	2	PASI-S
		SM 2320B	KMT	1	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	CMS	1	PASI-S
2510814005	MW-3_20120207	NWTPH-Dx	AY1	4	PASI-S
		EPA 6010	BGA	2	PASI-S
		EPA 5030B/8260	ERB	8	PASI-S
		NWTPH-Gx	ERB	2	PASI-S
		SM 2320B	KMT	1	PASI-S

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2611255
Pace Project No.: 2510814

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2510814006	TB1_20120207	EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	CMS	1	PASI-S
		EPA 5030B/8260	ERB	8	PASI-S
		NWTPH-Gx	ERB	2	PASI-S
2510814007	MW-6_20120207	NWTPH-Dx	AY1	4	PASI-S
		EPA 6010	BGA	2	PASI-S
		EPA 5030B/8260	ERB	8	PASI-S
		NWTPH-Gx	ERB	2	PASI-S
		SM 2320B	KMT	1	PASI-S
2510814008	MW-7_20120207	EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	CMS	1	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6010	BGA	2	PASI-S
		EPA 5030B/8260	LNH	8	PASI-S
		NWTPH-Gx	LNH	2	PASI-S
		SM 2320B	KMT	1	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
2510814009	MW-8_20120207	SM 4500-NO2 B	CMS	1	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6010	BGA	2	PASI-S
		EPA 5030B/8260	LNH, LPM	8	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
		SM 2320B	KMT	1	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	CMS	1	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
2510814010	MW-9_20120207	EPA 6010	BGA	2	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
		SM 2320B	KMT	1	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	CMS	1	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	CMS	1	PASI-S

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2611255

Pace Project No.: 2510814

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2510814011	TB2_20120207	EPA 5030B/8260	LNH	8	PASI-S
		NWTPH-Gx	LNH	2	PASI-S

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510814

Method: NWTPH-Dx

Description: NWTPH-Dx GCS Silica Gel

Client: ELT_Antea Group, Washington

Date: February 23, 2012

General Information:

9 samples were analyzed for NWTPH-Dx. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510814

Method: EPA 6010

Description: 6010 MET ICP

Client: ELT_Antea Group, Washington

Date: February 23, 2012

General Information:

9 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510814

Method: EPA 5030B/8260

Description: 8260 MSV

Client: ELT_Antea Group, Washington

Date: February 23, 2012

General Information:

11 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: MSV/6403

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2510814008

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

- MS (Lab ID: 103739)
 - Ethylbenzene
 - Xylene (Total)
- MSD (Lab ID: 103740)
 - Ethylbenzene
 - Xylene (Total)

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510814

Method: NWTPH-Gx

Description: NWTPH-Gx MSV

Client: ELT_Antea Group, Washington

Date: February 23, 2012

General Information:

11 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: MSV/6405

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2510957001

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

- MS (Lab ID: 103889)
 - Gasoline Range Organics
- MSD (Lab ID: 103890)
 - Gasoline Range Organics

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510814

Method: NWTPH-Gx

Description: NWTPH-Gx MSV

Client: ELT_Antea Group, Washington

Date: February 23, 2012

Analyte Comments:

QC Batch: MSV/6405

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 103889)
 - Gasoline Range Organics
- MSD (Lab ID: 103890)
 - Gasoline Range Organics

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510814

Method: SM 2320B

Description: 2320B Alkalinity

Client: ELT_Antea Group, Washington

Date: February 23, 2012

General Information:

9 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510814

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: ELT_Antea Group, Washington

Date: February 23, 2012

General Information:

9 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510814

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ pres.

Client: ELT_Antea Group, Washington

Date: February 23, 2012

General Information:

9 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510814

Method: SM 4500-NO2 B

Description: SM4500NO2-B, Nitrite, unpres

Client: ELT_Antea Group, Washington

Date: February 23, 2012

General Information:

9 samples were analyzed for SM 4500-NO2 B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: WETA/2402

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2510814001

R1: RPD value was outside control limits.

- MSD (Lab ID: 102456)
- Nitrite as N

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2510814

Sample: MW-10_20120207		Lab ID: 2510814001	Collected: 02/09/12 11:15	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	0.91	mg/L	0.076	1	02/13/12 09:30	02/14/12 00:28		
Motor Oil Range SG	ND	mg/L	0.38	1	02/13/12 09:30	02/14/12 00:28	64742-65-0	
Surrogates								
n-Octacosane (S) SG	85	%	50-150	1	02/13/12 09:30	02/14/12 00:28	630-02-4	
o-Terphenyl (S) SG	90	%	50-150	1	02/13/12 09:30	02/14/12 00:28	84-15-1	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Iron	8740	ug/L	100	1	02/14/12 08:24	02/15/12 11:04	7439-89-6	
Manganese	3260	ug/L	15.0	1	02/14/12 08:24	02/15/12 11:04	7439-96-5	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	14.8	ug/L	1.0	1		02/19/12 06:58	71-43-2	
Ethylbenzene	997	ug/L	10.0	10		02/19/12 05:21	100-41-4	
Toluene	21.9	ug/L	1.0	1		02/19/12 06:58	108-88-3	
Xylene (Total)	6120	ug/L	30.0	10		02/19/12 05:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	83	%	79-121	1		02/19/12 06:58	460-00-4	
Dibromofluoromethane (S)	109	%	81-119	1		02/19/12 06:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	83	%	72-127	1		02/19/12 06:58	17060-07-0	
Toluene-d8 (S)	99	%	77-120	1		02/19/12 06:58	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	46100	ug/L	500	10		02/19/12 05:21		
Surrogates								
4-Bromofluorobenzene (S)	89	%	50-150	10		02/19/12 05:21	460-00-4	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	193	mg/L	1.0	1		02/22/12 14:00		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Sulfate	ND	mg/L	1.0	1		02/15/12 18:32	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND	mg/L	0.050	1		02/22/12 13:58		
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		02/22/12 13:58		
SM4500NO2-B, Nitrite, unpres		Analytical Method: SM 4500-NO2 B						
Nitrite as N	ND	mg/L	0.010	1		02/10/12 15:03	14797-65-0	

Sample: MW-13_20120207		Lab ID: 2510814002	Collected: 02/09/12 09:45	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	ND	mg/L	0.076	1	02/13/12 09:30	02/14/12 01:52		

Date: 02/23/2012 05:45 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2510814

Sample: MW-13_20120207		Lab ID: 2510814002	Collected: 02/09/12 09:45	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Motor Oil Range SG	ND	mg/L	0.38	1	02/13/12 09:30	02/14/12 01:52	64742-65-0	
Surrogates								
n-Octacosane (S) SG	95 %		50-150	1	02/13/12 09:30	02/14/12 01:52	630-02-4	
o-Terphenyl (S) SG	94 %		50-150	1	02/13/12 09:30	02/14/12 01:52	84-15-1	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Iron	170	ug/L	100	1	02/14/12 08:24	02/15/12 11:07	7439-89-6	
Manganese	ND	ug/L	15.0	1	02/14/12 08:24	02/15/12 11:07	7439-96-5	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		02/19/12 02:51	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		02/19/12 02:51	100-41-4	
Toluene	ND	ug/L	1.0	1		02/19/12 02:51	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		02/19/12 02:51	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	108 %		79-121	1		02/19/12 02:51	460-00-4	
Dibromofluoromethane (S)	103 %		81-119	1		02/19/12 02:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	89 %		72-127	1		02/19/12 02:51	17060-07-0	
Toluene-d8 (S)	97 %		77-120	1		02/19/12 02:51	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND	ug/L	50.0	1		02/19/12 02:51		
Surrogates								
4-Bromofluorobenzene (S)	108 %		50-150	1		02/19/12 02:51	460-00-4	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO ₃	121	mg/L	1.0	1		02/22/12 14:00		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Sulfate	26.3	mg/L	2.0	2		02/15/12 19:08	14808-79-8	
353.2 Nitrogen, NO₂/NO₃ pres.		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	2.9	mg/L	0.10	2		02/22/12 14:38		
Nitrogen, NO ₂ plus NO ₃	2.9	mg/L	0.10	2		02/22/12 14:38		
SM4500NO₂-B, Nitrite, unpres		Analytical Method: SM 4500-NO ₂ B						
Nitrite as N	ND	mg/L	0.010	1		02/10/12 15:03	14797-65-0	

Sample: MW-16_20120207		Lab ID: 2510814003	Collected: 02/09/12 11:45	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	0.55	mg/L	0.078	1	02/13/12 09:30	02/14/12 02:12		
Motor Oil Range SG	ND	mg/L	0.39	1	02/13/12 09:30	02/14/12 02:12	64742-65-0	

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ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2510814

Sample: MW-16_20120207		Lab ID: 2510814003	Collected: 02/09/12 11:45	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Surrogates								
n-Octacosane (S) SG	88 %		50-150	1	02/13/12 09:30	02/14/12 02:12	630-02-4	
o-Terphenyl (S) SG	86 %		50-150	1	02/13/12 09:30	02/14/12 02:12	84-15-1	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Iron	3580 ug/L		100	1	02/14/12 08:24	02/15/12 11:11	7439-89-6	
Manganese	2410 ug/L		15.0	1	02/14/12 08:24	02/15/12 11:11	7439-96-5	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	917 ug/L		50.0	50		02/19/12 06:22	71-43-2	
Ethylbenzene	1250 ug/L		50.0	50		02/19/12 06:22	100-41-4	
Toluene	5760 ug/L		50.0	50		02/19/12 06:22	108-88-3	
Xylene (Total)	6010 ug/L		150	50		02/19/12 06:22	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96 %		79-121	50		02/19/12 06:22	460-00-4	
Dibromofluoromethane (S)	104 %		81-119	50		02/19/12 06:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	98 %		72-127	50		02/19/12 06:22	17060-07-0	
Toluene-d8 (S)	99 %		77-120	50		02/19/12 06:22	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	71300 ug/L		2500	50		02/19/12 06:22		
Surrogates								
4-Bromofluorobenzene (S)	96 %		50-150	50		02/19/12 06:22	460-00-4	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	114 mg/L		1.0	1		02/22/12 14:00		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Sulfate	ND mg/L		1.0	1		02/14/12 21:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND mg/L		0.050	1		02/22/12 14:04		
Nitrogen, NO2 plus NO3	ND mg/L		0.050	1		02/22/12 14:04		
SM4500NO2-B, Nitrite, unpres		Analytical Method: SM 4500-NO2 B						
Nitrite as N	ND mg/L		0.010	1		02/10/12 15:03	14797-65-0	

Sample: MW-17_20120207		Lab ID: 2510814004	Collected: 02/09/12 14:40	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	0.44 mg/L		0.076	1	02/13/12 09:30	02/14/12 02:33		
Motor Oil Range SG	ND mg/L		0.38	1	02/13/12 09:30	02/14/12 02:33	64742-65-0	

ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2510814

Sample: MW-17_20120207		Lab ID: 2510814004	Collected: 02/09/12 14:40		Received: 02/09/12 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Surrogates								
n-Octacosane (S) SG	92 %		50-150	1	02/13/12 09:30	02/14/12 02:33	630-02-4	
o-Terphenyl (S) SG	94 %		50-150	1	02/13/12 09:30	02/14/12 02:33	84-15-1	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Iron	110000 ug/L		100	1	02/14/12 08:24	02/15/12 11:15	7439-89-6	
Manganese	5150 ug/L		15.0	1	02/14/12 08:24	02/15/12 11:15	7439-96-5	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	12.2 ug/L		1.0	1		02/22/12 15:01	71-43-2	
Ethylbenzene	110 ug/L		10.0	10		02/19/12 05:41	100-41-4	
Toluene	ND ug/L		1.0	1		02/22/12 15:01	108-88-3	
Xylene (Total)	4.7 ug/L		3.0	1		02/22/12 15:01	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		79-121	1		02/22/12 15:01	460-00-4	
Dibromofluoromethane (S)	112 %		81-119	1		02/22/12 15:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	92 %		72-127	1		02/22/12 15:01	17060-07-0	
Toluene-d8 (S)	101 %		77-120	1		02/22/12 15:01	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	2460 ug/L		500	10		02/19/12 05:41		
Surrogates								
4-Bromofluorobenzene (S)	95 %		50-150	10		02/19/12 05:41	460-00-4	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	145 mg/L		1.0	1		02/22/12 14:00		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Sulfate	ND mg/L		1.0	1		02/14/12 21:24	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND mg/L		0.050	1		02/22/12 14:05		
Nitrogen, NO2 plus NO3	ND mg/L		0.050	1		02/22/12 14:05		
SM4500NO2-B, Nitrite, unpres		Analytical Method: SM 4500-NO2 B						
Nitrite as N	ND mg/L		0.010	1		02/10/12 15:03	14797-65-0	

Sample: MW-3_20120207		Lab ID: 2510814005	Collected: 02/09/12 15:30	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	ND mg/L		0.081	1	02/13/12 09:30	02/14/12 02:54		
Motor Oil Range SG	ND mg/L		0.40	1	02/13/12 09:30	02/14/12 02:54	64742-65-0	

ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2510814

Sample: MW-3_20120207		Lab ID: 2510814005	Collected: 02/09/12 15:30	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Surrogates								
n-Octacosane (S) SG	91 %		50-150	1	02/13/12 09:30	02/14/12 02:54	630-02-4	
o-Terphenyl (S) SG	92 %		50-150	1	02/13/12 09:30	02/14/12 02:54	84-15-1	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Iron	ND ug/L		100	1	02/14/12 08:24	02/15/12 11:18	7439-89-6	
Manganese	ND ug/L		15.0	1	02/14/12 08:24	02/15/12 11:18	7439-96-5	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		02/19/12 03:09	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		02/19/12 03:09	100-41-4	
Toluene	ND ug/L		1.0	1		02/19/12 03:09	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		02/19/12 03:09	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	109 %		79-121	1		02/19/12 03:09	460-00-4	
Dibromofluoromethane (S)	104 %		81-119	1		02/19/12 03:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	88 %		72-127	1		02/19/12 03:09	17060-07-0	
Toluene-d8 (S)	99 %		77-120	1		02/19/12 03:09	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		02/19/12 03:09		
Surrogates								
4-Bromofluorobenzene (S)	109 %		50-150	1		02/19/12 03:09	460-00-4	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	133 mg/L		1.0	1		02/22/12 14:00		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Sulfate	14.9 mg/L		1.0	1		02/14/12 21:42	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	1.0 mg/L		0.050	1		02/22/12 14:11		
Nitrogen, NO2 plus NO3	1.0 mg/L		0.050	1		02/22/12 14:11		
SM4500NO2-B, Nitrite, unpres		Analytical Method: SM 4500-NO2 B						
Nitrite as N	ND mg/L		0.010	1		02/10/12 15:03	14797-65-0	

Sample: TB1_20120207		Lab ID: 2510814006	Collected: 02/09/12 00:00	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		02/19/12 00:25	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		02/19/12 00:25	100-41-4	
Toluene	ND ug/L		1.0	1		02/19/12 00:25	108-88-3	

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ANALYTICAL RESULTS

Project: 2611255

Pace Project No.: 2510814

Sample: TB1_20120207		Lab ID: 2510814006		Collected: 02/09/12 00:00		Received: 02/09/12 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 5030B/8260							
Xylene (Total)	ND ug/L		3.0	1		02/19/12 00:25	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	106 %		79-121	1		02/19/12 00:25	460-00-4		
Dibromofluoromethane (S)	104 %		81-119	1		02/19/12 00:25	1868-53-7		
1,2-Dichloroethane-d4 (S)	86 %		72-127	1		02/19/12 00:25	17060-07-0		
Toluene-d8 (S)	98 %		77-120	1		02/19/12 00:25	2037-26-5		
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND ug/L		50.0	1		02/19/12 00:25			
Surrogates									
4-Bromofluorobenzene (S)	106 %		50-150	1		02/19/12 00:25	460-00-4		
Sample: MW-6_20120207		Lab ID: 2510814007		Collected: 02/09/12 15:15		Received: 02/09/12 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range SG	1.5 mg/L		0.082	1	02/13/12 09:30	02/14/12 03:15			
Motor Oil Range SG	ND mg/L		0.41	1	02/13/12 09:30	02/14/12 03:15	64742-65-0		
Surrogates									
n-Octacosane (S) SG	91 %		50-150	1	02/13/12 09:30	02/14/12 03:15	630-02-4		
o-Terphenyl (S) SG	91 %		50-150	1	02/13/12 09:30	02/14/12 03:15	84-15-1		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	2700 ug/L		100	1	02/14/12 08:24	02/15/12 11:30	7439-89-6		
Manganese	2910 ug/L		15.0	1	02/14/12 08:24	02/15/12 11:30	7439-96-5		
8260 MSV		Analytical Method: EPA 5030B/8260							
Benzene	165 ug/L		1.0	1		02/19/12 07:16	71-43-2		
Ethylbenzene	716 ug/L		25.0	25		02/19/12 06:01	100-41-4		
Toluene	6.9 ug/L		1.0	1		02/19/12 07:16	108-88-3		
Xylene (Total)	2460 ug/L		75.0	25		02/19/12 06:01	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	81 %		79-121	1		02/19/12 07:16	460-00-4		
Dibromofluoromethane (S)	107 %		81-119	1		02/19/12 07:16	1868-53-7		
1,2-Dichloroethane-d4 (S)	82 %		72-127	1		02/19/12 07:16	17060-07-0		
Toluene-d8 (S)	98 %		77-120	1		02/19/12 07:16	2037-26-5		
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	36600 ug/L		1250	25		02/19/12 06:01			
Surrogates									
4-Bromofluorobenzene (S)	89 %		50-150	25		02/19/12 06:01	460-00-4		
2320B Alkalinity		Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	132 mg/L		1.0	1		02/22/12 14:00			

ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2510814

Sample: MW-6_20120207		Lab ID: 2510814007		Collected: 02/09/12 15:15		Received: 02/09/12 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	1.0	1		02/14/12 22:00	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.050	1		02/22/12 14:13			
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		02/22/12 14:13			
SM4500NO2-B, Nitrite, unpres		Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		02/10/12 15:03	14797-65-0		

Sample: MW-7_20120207		Lab ID: 2510814008		Collected: 02/09/12 10:50		Received: 02/09/12 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range SG	0.12	mg/L	0.076	1	02/13/12 09:30	02/14/12 03:35			
Motor Oil Range SG	ND	mg/L	0.38	1	02/13/12 09:30	02/14/12 03:35	64742-65-0		
Surrogates									
n-Octacosane (S) SG	91	%	50-150	1	02/13/12 09:30	02/14/12 03:35	630-02-4		
o-Terphenyl (S) SG	91	%	50-150	1	02/13/12 09:30	02/14/12 03:35	84-15-1		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	1300	ug/L	100	1	02/14/12 08:24	02/15/12 11:33	7439-89-6		
Manganese	3420	ug/L	15.0	1	02/14/12 08:24	02/15/12 11:33	7439-96-5		
8260 MSV		Analytical Method: EPA 5030B/8260							
Benzene	1.1	ug/L	1.0	1		02/19/12 23:08	71-43-2		
Ethylbenzene	86.0	ug/L	1.0	1		02/19/12 23:08	100-41-4	M1	
Toluene	2.0	ug/L	1.0	1		02/19/12 23:08	108-88-3		
Xylene (Total)	165	ug/L	3.0	1		02/19/12 23:08	1330-20-7	M1	
Surrogates									
4-Bromofluorobenzene (S)	89	%	79-121	1		02/19/12 23:08	460-00-4		
Dibromofluoromethane (S)	100	%	81-119	1		02/19/12 23:08	1868-53-7		
1,2-Dichloroethane-d4 (S)	86	%	72-127	1		02/19/12 23:08	17060-07-0		
Toluene-d8 (S)	100	%	77-120	1		02/19/12 23:08	2037-26-5		
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	2490	ug/L	50.0	1		02/19/12 23:08			
Surrogates									
4-Bromofluorobenzene (S)	89	%	50-150	1		02/19/12 23:08	460-00-4		
2320B Alkalinity		Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	166	mg/L	1.0	1		02/22/12 14:00			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Sulfate	12.7	mg/L	1.0	1		02/15/12 19:26	14808-79-8		

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ANALYTICAL RESULTS

Project: 2611255

Pace Project No.: 2510814

Sample: MW-7_20120207		Lab ID: 2510814008		Collected: 02/09/12 10:50		Received: 02/09/12 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.050	1		02/22/12 14:14			
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		02/22/12 14:14			
SM4500NO2-B, Nitrite, unpres		Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		02/10/12 15:03	14797-65-0		
Sample: MW-8_20120207		Lab ID: 2510814009		Collected: 02/09/12 12:00		Received: 02/09/12 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range SG	1.2	mg/L	0.076	1	02/13/12 09:30	02/14/12 03:56			
Motor Oil Range SG	1.4	mg/L	0.38	1	02/13/12 09:30	02/14/12 03:56	64742-65-0		
Surrogates									
n-Octacosane (S) SG	92	%	50-150	1	02/13/12 09:30	02/14/12 03:56	630-02-4		
o-Terphenyl (S) SG	94	%	50-150	1	02/13/12 09:30	02/14/12 03:56	84-15-1		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	6560	ug/L	100	1	02/14/12 08:24	02/15/12 11:37	7439-89-6		
Manganese	2660	ug/L	15.0	1	02/14/12 08:24	02/15/12 11:37	7439-96-5		
8260 MSV		Analytical Method: EPA 5030B/8260							
Benzene	1230	ug/L	25.0	25		02/23/12 04:31	71-43-2		
Ethylbenzene	768	ug/L	25.0	25		02/23/12 04:31	100-41-4		
Toluene	15.4	ug/L	1.0	1		02/19/12 23:26	108-88-3		
Xylene (Total)	1120	ug/L	75.0	25		02/23/12 04:31	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	86	%	79-121	1		02/19/12 23:26	460-00-4		
Dibromofluoromethane (S)	98	%	81-119	1		02/19/12 23:26	1868-53-7		
1,2-Dichloroethane-d4 (S)	89	%	72-127	1		02/19/12 23:26	17060-07-0		
Toluene-d8 (S)	100	%	77-120	1		02/19/12 23:26	2037-26-5		
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	13300	ug/L	1250	25		02/23/12 04:31			
Surrogates									
4-Bromofluorobenzene (S)	90	%	50-150	25		02/23/12 04:31	460-00-4		
2320B Alkalinity		Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	142	mg/L	1.0	1		02/22/12 14:00			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	1.0	1		02/14/12 23:13	14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.050	1		02/22/12 14:16			

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ANALYTICAL RESULTS

Project: 2611255

Pace Project No.: 2510814

Sample: MW-8_20120207		Lab ID: 2510814009	Collected: 02/09/12 12:00	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2						
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		02/22/12 14:16		
SM4500NO2-B, Nitrite, unpres		Analytical Method: SM 4500-NO2 B						
Nitrite as N	ND	mg/L	0.010	1		02/10/12 15:03	14797-65-0	
Sample: MW-9_20120207		Lab ID: 2510814010	Collected: 02/09/12 13:55	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	0.59	mg/L	0.075	1	02/13/12 09:30	02/14/12 04:17		
Motor Oil Range SG	ND	mg/L	0.38	1	02/13/12 09:30	02/14/12 04:17	64742-65-0	
Surrogates								
n-Octacosane (S) SG	92	%	50-150	1	02/13/12 09:30	02/14/12 04:17	630-02-4	
o-Terphenyl (S) SG	96	%	50-150	1	02/13/12 09:30	02/14/12 04:17	84-15-1	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Iron	146000	ug/L	100	1	02/14/12 08:24	02/15/12 11:41	7439-89-6	
Manganese	5540	ug/L	15.0	1	02/14/12 08:24	02/15/12 11:41	7439-96-5	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	169	ug/L	1.0	1		02/23/12 06:10	71-43-2	
Ethylbenzene	237	ug/L	5.0	5		02/23/12 03:50	100-41-4	
Toluene	2.2	ug/L	1.0	1		02/23/12 06:10	108-88-3	
Xylene (Total)	70.9	ug/L	3.0	1		02/23/12 06:10	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	89	%	79-121	1		02/23/12 06:10	460-00-4	
Dibromofluoromethane (S)	104	%	81-119	1		02/23/12 06:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	86	%	72-127	1		02/23/12 06:10	17060-07-0	
Toluene-d8 (S)	99	%	77-120	1		02/23/12 06:10	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	4940	ug/L	50.0	1		02/23/12 06:10		
Surrogates								
4-Bromofluorobenzene (S)	89	%	50-150	1		02/23/12 06:10	460-00-4	
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	181	mg/L	1.0	1		02/22/12 14:00		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Sulfate	ND	mg/L	1.0	1		02/14/12 23:31	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND	mg/L	0.050	1		02/22/12 14:17		
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		02/22/12 14:17		

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ANALYTICAL RESULTS

Project: 2611255

Pace Project No.: 2510814

Sample: MW-9_20120207		Lab ID: 2510814010	Collected: 02/09/12 13:55	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM4500NO2-B, Nitrite, unpres		Analytical Method: SM 4500-NO2 B						
Nitrite as N	ND	mg/L	0.010	1		02/10/12 15:03	14797-65-0	
Sample: TB2_20120207		Lab ID: 2510814011	Collected: 02/09/12 00:00	Received: 02/09/12 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		02/19/12 22:31	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		02/19/12 22:31	100-41-4	
Toluene	ND	ug/L	1.0	1		02/19/12 22:31	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		02/19/12 22:31	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	79-121	1		02/19/12 22:31	460-00-4	
Dibromofluoromethane (S)	103	%	81-119	1		02/19/12 22:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	90	%	72-127	1		02/19/12 22:31	17060-07-0	
Toluene-d8 (S)	98	%	77-120	1		02/19/12 22:31	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND	ug/L	50.0	1		02/19/12 22:31		
Surrogates								
4-Bromofluorobenzene (S)	104	%	50-150	1		02/19/12 22:31	460-00-4	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510814

QC Batch: MPRP/2808 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814007, 2510814008, 2510814009, 2510814010

METHOD BLANK: 102802 Matrix: Water
Associated Lab Samples: 2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814007, 2510814008, 2510814009, 2510814010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	100	02/15/12 08:40	
Manganese	ug/L	ND	15.0	02/15/12 08:40	

LABORATORY CONTROL SAMPLE: 102803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9660	97	80-120	
Manganese	ug/L	500	478	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 102804 102805

Parameter	Units	2510844001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Iron	ug/L	1.5 mg/L	10000	10000	10800	11300	93	98	75-125	5	
Manganese	ug/L	0.11 mg/L	500	500	570	576	92	93	75-125	1	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510814

QC Batch:	MSV/6399	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814006, 2510814007		

METHOD BLANK:	103302	Matrix:	Water
Associated Lab Samples:	2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814006, 2510814007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	02/18/12 23:31	
Ethylbenzene	ug/L	ND	1.0	02/18/12 23:31	
Toluene	ug/L	ND	1.0	02/18/12 23:31	
Xylene (Total)	ug/L	ND	3.0	02/18/12 23:31	
1,2-Dichloroethane-d4 (S)	%	88	72-127	02/18/12 23:31	
4-Bromofluorobenzene (S)	%	108	79-121	02/18/12 23:31	
Dibromofluoromethane (S)	%	101	81-119	02/18/12 23:31	
Toluene-d8 (S)	%	98	77-120	02/18/12 23:31	

LABORATORY CONTROL SAMPLE: 103303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	15.5	78	66-123	
Ethylbenzene	ug/L	20	14.9	74	67-122	
Toluene	ug/L	20	15.3	77	64-118	
Xylene (Total)	ug/L	60	45.4	76	68-122	
1,2-Dichloroethane-d4 (S)	%			85	72-127	
4-Bromofluorobenzene (S)	%			85	79-121	
Dibromofluoromethane (S)	%			114	81-119	
Toluene-d8 (S)	%			100	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 103426 103427

Parameter	Units	2510832002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	18.8	19.8	94	99	63-138	5	
Ethylbenzene	ug/L	ND	20	20	18.3	19.3	91	96	65-135	5	
Toluene	ug/L	ND	20	20	18.6	19.4	93	97	64-128	4	
Xylene (Total)	ug/L	ND	60	60	55.5	58.5	92	97	65-133	5	
1,2-Dichloroethane-d4 (S)	%						88	84	72-127		
4-Bromofluorobenzene (S)	%						87	86	79-121		
Dibromofluoromethane (S)	%						101	103	81-119		
Toluene-d8 (S)	%						100	101	77-120		

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510814

QC Batch:	MSV/6403	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	2510814008, 2510814009, 2510814011		

METHOD BLANK: 103376 Matrix: Water

Associated Lab Samples: 2510814008, 2510814009, 2510814011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	02/19/12 22:13	
Ethylbenzene	ug/L	ND	1.0	02/19/12 22:13	
Toluene	ug/L	ND	1.0	02/19/12 22:13	
Xylene (Total)	ug/L	ND	3.0	02/19/12 22:13	
1,2-Dichloroethane-d4 (S)	%	87	72-127	02/19/12 22:13	
4-Bromofluorobenzene (S)	%	103	79-121	02/19/12 22:13	
Dibromofluoromethane (S)	%	102	81-119	02/19/12 22:13	
Toluene-d8 (S)	%	98	77-120	02/19/12 22:13	

LABORATORY CONTROL SAMPLE: 103377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	16.5	83	66-123	
Ethylbenzene	ug/L	20	15.5	78	67-122	
Toluene	ug/L	20	16.2	81	64-118	
Xylene (Total)	ug/L	60	46.9	78	68-122	
1,2-Dichloroethane-d4 (S)	%			85	72-127	
4-Bromofluorobenzene (S)	%			86	79-121	
Dibromofluoromethane (S)	%			102	81-119	
Toluene-d8 (S)	%			101	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 103739 103740

Parameter	Units	2510814008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	1.1	20	20	16.6	18.0	78	85	63-138	8	
Ethylbenzene	ug/L	86.0	20	20	69.8	78.4	-81	-38	65-135	12	M1
Toluene	ug/L	2.0	20	20	16.0	17.7	70	79	64-128	10	
Xylene (Total)	ug/L	165	60	60	146	169	-32	6	65-133	14	M1
1,2-Dichloroethane-d4 (S)	%						84	89	72-127		
4-Bromofluorobenzene (S)	%						85	84	79-121		
Dibromofluoromethane (S)	%						100	101	81-119		
Toluene-d8 (S)	%						100	100	77-120		

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510814

QC Batch:	MSV/6426	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	2510814004		

METHOD BLANK: 103673 Matrix: Water

Associated Lab Samples: 2510814004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	02/22/12 08:33	
Toluene	ug/L	ND	1.0	02/22/12 08:33	
Xylene (Total)	ug/L	ND	3.0	02/22/12 08:33	
1,2-Dichloroethane-d4 (S)	%	92	72-127	02/22/12 08:33	
4-Bromofluorobenzene (S)	%	103	79-121	02/22/12 08:33	
Dibromofluoromethane (S)	%	111	81-119	02/22/12 08:33	
Toluene-d8 (S)	%	100	77-120	02/22/12 08:33	

LABORATORY CONTROL SAMPLE: 103674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	16.1	81	66-123	
Toluene	ug/L	20	16.1	80	64-118	
Xylene (Total)	ug/L	60	52.0	87	68-122	
1,2-Dichloroethane-d4 (S)	%			94	72-127	
4-Bromofluorobenzene (S)	%			97	79-121	
Dibromofluoromethane (S)	%			112	81-119	
Toluene-d8 (S)	%			99	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 103766 103767

Parameter	Units	2510830003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	16.2	16.4	81	81	63-138	1	
Toluene	ug/L	ND	20	20	16.5	16.7	82	83	64-128	.9	
Xylene (Total)	ug/L	ND	60	60	50.7	51.2	84	85	65-133	1	
1,2-Dichloroethane-d4 (S)	%						95	96	72-127		
4-Bromofluorobenzene (S)	%						96	97	79-121		
Dibromofluoromethane (S)	%						114	114	81-119		
Toluene-d8 (S)	%						101	100	77-120		

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510814

QC Batch:	MSV/6428	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	2510814009, 2510814010		

METHOD BLANK: 103746 Matrix: Water

Associated Lab Samples: 2510814009, 2510814010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	02/22/12 23:47	
Ethylbenzene	ug/L	ND	1.0	02/22/12 23:47	
Toluene	ug/L	ND	1.0	02/22/12 23:47	
Xylene (Total)	ug/L	ND	3.0	02/22/12 23:47	
1,2-Dichloroethane-d4 (S)	%	88	72-127	02/22/12 23:47	
4-Bromofluorobenzene (S)	%	100	79-121	02/22/12 23:47	
Dibromofluoromethane (S)	%	107	81-119	02/22/12 23:47	
Toluene-d8 (S)	%	99	77-120	02/22/12 23:47	

LABORATORY CONTROL SAMPLE: 103747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.8	94	66-123	
Ethylbenzene	ug/L	20	18.1	91	67-122	
Toluene	ug/L	20	18.4	92	64-118	
Xylene (Total)	ug/L	60	54.1	90	68-122	
1,2-Dichloroethane-d4 (S)	%			86	72-127	
4-Bromofluorobenzene (S)	%			85	79-121	
Dibromofluoromethane (S)	%			103	81-119	
Toluene-d8 (S)	%			101	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 103900 103901

Parameter	Units	2510820003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	20.4	19.0	102	95	63-138	7	
Ethylbenzene	ug/L	ND	20	20	19.8	18.5	99	92	65-135	7	
Toluene	ug/L	ND	20	20	20.2	18.6	101	93	64-128	8	
Xylene (Total)	ug/L	ND	60	60	59.0	54.1	98	90	65-133	9	
1,2-Dichloroethane-d4 (S)	%						86	86	72-127		
4-Bromofluorobenzene (S)	%						86	87	79-121		
Dibromofluoromethane (S)	%						105	103	81-119		
Toluene-d8 (S)	%						101	100	77-120		

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510814

QC Batch:	MSV/6398	Analysis Method:	NWTPH-Gx
QC Batch Method:	NWTPH-Gx	Analysis Description:	NWTPH-Gx MSV Water
Associated Lab Samples:	2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814006, 2510814007		

METHOD BLANK:	103300	Matrix:	Water
Associated Lab Samples:	2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814006, 2510814007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	02/18/12 23:31	
4-Bromofluorobenzene (S)	%	108	50-150	02/18/12 23:31	

LABORATORY CONTROL SAMPLE: 103301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	494	99	65-139	
4-Bromofluorobenzene (S)	%			97	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 103532 103533

Parameter	Units	2510814002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	ug/L	ND	500	500	565	579	108	110	48-147	2	
4-Bromofluorobenzene (S)	%						95	97	50-150		

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510814

QC Batch:	MSV/6405	Analysis Method:	NWTPH-Gx
QC Batch Method:	NWTPH-Gx	Analysis Description:	NWTPH-Gx MSV Water
Associated Lab Samples:	2510814008, 2510814011		

METHOD BLANK:	103382	Matrix:	Water
Associated Lab Samples:	2510814008, 2510814011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	02/19/12 22:13	
4-Bromofluorobenzene (S)	%	103	50-150	02/19/12 22:13	

LABORATORY CONTROL SAMPLE: 103383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	506	101	65-139	
4-Bromofluorobenzene (S)	%			96	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 103889 103890

Parameter	Units	2510957001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	ug/L	26000	500	500	21900	20000	-823	-1190	48-147	9	E,M1
4-Bromofluorobenzene (S)	%						86	89	50-150		

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510814

QC Batch: MSV/6429

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPH-Gx

Analysis Description: NWTPH-Gx MSV Water

Associated Lab Samples: 2510814009, 2510814010

METHOD BLANK: 103751

Matrix: Water

Associated Lab Samples: 2510814009, 2510814010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	02/22/12 23:47	
4-Bromofluorobenzene (S)	%	100	50-150	02/22/12 23:47	

LABORATORY CONTROL SAMPLE: 103752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	473	95	65-139	
4-Bromofluorobenzene (S)	%			94	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 103898

103899

Parameter	Units	2510820004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	ug/L	316	500	500	945	958	126	128	48-147	1	
4-Bromofluorobenzene (S)	%						93	93	50-150		

QUALITY CONTROL DATA

Project: 2611255
Pace Project No.: 2510814

QC Batch: OEXT/5091 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS SG
Associated Lab Samples: 2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814007, 2510814008, 2510814009, 2510814010

METHOD BLANK: 102687 Matrix: Water
Associated Lab Samples: 2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814007, 2510814008, 2510814009, 2510814010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range SG	mg/L	ND	0.080	02/13/12 22:03	
Motor Oil Range SG	mg/L	ND	0.40	02/13/12 22:03	
n-Octacosane (S) SG	%	83	50-150	02/13/12 22:03	
o-Terphenyl (S) SG	%	97	50-150	02/13/12 22:03	

LABORATORY CONTROL SAMPLE: 102688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	mg/L	4	3.7	92	59-114	
Motor Oil Range SG	mg/L	4	4.0	101	69-124	
n-Octacosane (S) SG	%			90	50-150	
o-Terphenyl (S) SG	%			94	50-150	

SAMPLE DUPLICATE: 102689

Parameter	Units	2510804001 Result	Dup Result	RPD	Qualifiers
Diesel Range SG	mg/L	ND	.052J		
Motor Oil Range SG	mg/L	ND	ND		
n-Octacosane (S) SG	%	90	87	.9	
o-Terphenyl (S) SG	%	95	90	3	

SAMPLE DUPLICATE: 102690

Parameter	Units	2510814001 Result	Dup Result	RPD	Qualifiers
Diesel Range SG	mg/L	0.91	0.75	19	
Motor Oil Range SG	mg/L	ND	ND		
n-Octacosane (S) SG	%	85	87	2	
o-Terphenyl (S) SG	%	90	87	4	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510814

QC Batch:	WET/3474	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples:	2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814007, 2510814008, 2510814009, 2510814010		

METHOD BLANK:	103470	Matrix:	Water
Associated Lab Samples:	2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814007, 2510814008, 2510814009, 2510814010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	1.0	02/22/12 14:00	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	100	93.5	94	90-110	

Parameter	Units	2510814001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	193	194	.4	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510814

QC Batch: WETA/2407 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814007, 2510814008, 2510814009, 2510814010

METHOD BLANK: 102834 Matrix: Water
Associated Lab Samples: 2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814007, 2510814008, 2510814009, 2510814010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	02/14/12 14:27	

LABORATORY CONTROL SAMPLE: 102835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	15	14.7	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 102836 102837

Parameter	Units	2510808001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	mg/L	144000 ug/L	150	150	302	294	105	100	90-110	3	

MATRIX SPIKE SAMPLE: 102838

Parameter	Units	2510814001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	ND	15	15.2	96	90-110	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510814

QC Batch:	WETA/2413	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
Associated Lab Samples:	2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814007, 2510814008, 2510814009, 2510814010		

METHOD BLANK:	103450	Matrix:	Water
Associated Lab Samples:	2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814007, 2510814008, 2510814009, 2510814010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.050	02/22/12 13:53	

LABORATORY CONTROL SAMPLE: 103451						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1	0.93	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:											
103452						103453					
Parameter	Units	2510814001	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
		Result	Spike Conc.	Spike Conc.							
Nitrogen, NO2 plus NO3	ma/L	ND	1	1	1.0	0.97	101	97	90-110	5	

MATRIX SPIKE SAMPLE:		103454					
Parameter	Units	2510903003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.030J	1	1.1	103	90-110	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510814

QC Batch:	WETA/2402	Analysis Method:	SM 4500-NO2 B
QC Batch Method:	SM 4500-NO2 B	Analysis Description:	SM4500NO2-B, Nitrite, unpres
Associated Lab Samples:	2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814007, 2510814008, 2510814009, 2510814010		

METHOD BLANK:	102453	Matrix:	Water
Associated Lab Samples:	2510814001, 2510814002, 2510814003, 2510814004, 2510814005, 2510814007, 2510814008, 2510814009, 2510814010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.010	02/10/12 15:03	

LABORATORY CONTROL SAMPLE: 102454		Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	.05	0.053	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		102455 102456									
Parameter	Units	2510814001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrite as N	mg/L	ND	.05	.05	0.038	0.048	75	95	71-109	24	R1

QUALIFIERS

Project: 2611255

Pace Project No.: 2510814

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

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

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

LABORATORIES

PASI-S Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

R1 RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2611255

Pace Project No.: 2510814

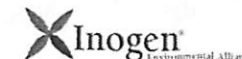
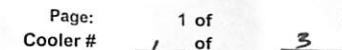
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2510814001	MW-10_20120207	EPA 3510	OEXT/5091	NWTPH-Dx	GCSV/3307
2510814002	MW-13_20120207	EPA 3510	OEXT/5091	NWTPH-Dx	GCSV/3307
2510814003	MW-16_20120207	EPA 3510	OEXT/5091	NWTPH-Dx	GCSV/3307
2510814004	MW-17_20120207	EPA 3510	OEXT/5091	NWTPH-Dx	GCSV/3307
2510814005	MW-3_20120207	EPA 3510	OEXT/5091	NWTPH-Dx	GCSV/3307
2510814007	MW-6_20120207	EPA 3510	OEXT/5091	NWTPH-Dx	GCSV/3307
2510814008	MW-7_20120207	EPA 3510	OEXT/5091	NWTPH-Dx	GCSV/3307
2510814009	MW-8_20120207	EPA 3510	OEXT/5091	NWTPH-Dx	GCSV/3307
2510814010	MW-9_20120207	EPA 3510	OEXT/5091	NWTPH-Dx	GCSV/3307
2510814001	MW-10_20120207	EPA 3010	MPRP/2808	EPA 6010	ICP/2645
2510814002	MW-13_20120207	EPA 3010	MPRP/2808	EPA 6010	ICP/2645
2510814003	MW-16_20120207	EPA 3010	MPRP/2808	EPA 6010	ICP/2645
2510814004	MW-17_20120207	EPA 3010	MPRP/2808	EPA 6010	ICP/2645
2510814005	MW-3_20120207	EPA 3010	MPRP/2808	EPA 6010	ICP/2645
2510814007	MW-6_20120207	EPA 3010	MPRP/2808	EPA 6010	ICP/2645
2510814008	MW-7_20120207	EPA 3010	MPRP/2808	EPA 6010	ICP/2645
2510814009	MW-8_20120207	EPA 3010	MPRP/2808	EPA 6010	ICP/2645
2510814010	MW-9_20120207	EPA 3010	MPRP/2808	EPA 6010	ICP/2645
2510814001	MW-10_20120207	EPA 5030B/8260	MSV/6399		
2510814002	MW-13_20120207	EPA 5030B/8260	MSV/6399		
2510814003	MW-16_20120207	EPA 5030B/8260	MSV/6399		
2510814004	MW-17_20120207	EPA 5030B/8260	MSV/6399		
2510814004	MW-17_20120207	EPA 5030B/8260	MSV/6426		
2510814005	MW-3_20120207	EPA 5030B/8260	MSV/6399		
2510814006	TB1_20120207	EPA 5030B/8260	MSV/6399		
2510814007	MW-6_20120207	EPA 5030B/8260	MSV/6399		
2510814008	MW-7_20120207	EPA 5030B/8260	MSV/6403		
2510814009	MW-8_20120207	EPA 5030B/8260	MSV/6403		
2510814009	MW-8_20120207	EPA 5030B/8260	MSV/6428		
2510814010	MW-9_20120207	EPA 5030B/8260	MSV/6428		
2510814011	TB2_20120207	EPA 5030B/8260	MSV/6403		
2510814001	MW-10_20120207	NWTPH-Gx	MSV/6398		
2510814002	MW-13_20120207	NWTPH-Gx	MSV/6398		
2510814003	MW-16_20120207	NWTPH-Gx	MSV/6398		
2510814004	MW-17_20120207	NWTPH-Gx	MSV/6398		
2510814005	MW-3_20120207	NWTPH-Gx	MSV/6398		
2510814006	TB1_20120207	NWTPH-Gx	MSV/6398		
2510814007	MW-6_20120207	NWTPH-Gx	MSV/6398		
2510814008	MW-7_20120207	NWTPH-Gx	MSV/6405		
2510814009	MW-8_20120207	NWTPH-Gx	MSV/6429		
2510814010	MW-9_20120207	NWTPH-Gx	MSV/6429		
2510814011	TB2_20120207	NWTPH-Gx	MSV/6405		
2510814001	MW-10_20120207	SM 2320B	WET/3474		

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2611255

Pace Project No.: 2510814

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2510814002	MW-13_20120207	SM 2320B	WET/3474		
2510814003	MW-16_20120207	SM 2320B	WET/3474		
2510814004	MW-17_20120207	SM 2320B	WET/3474		
2510814005	MW-3_20120207	SM 2320B	WET/3474		
2510814007	MW-6_20120207	SM 2320B	WET/3474		
2510814008	MW-7_20120207	SM 2320B	WET/3474		
2510814009	MW-8_20120207	SM 2320B	WET/3474		
2510814010	MW-9_20120207	SM 2320B	WET/3474		
2510814001	MW-10_20120207	EPA 300.0	WETA/2407		
2510814002	MW-13_20120207	EPA 300.0	WETA/2407		
2510814003	MW-16_20120207	EPA 300.0	WETA/2407		
2510814004	MW-17_20120207	EPA 300.0	WETA/2407		
2510814005	MW-3_20120207	EPA 300.0	WETA/2407		
2510814007	MW-6_20120207	EPA 300.0	WETA/2407		
2510814008	MW-7_20120207	EPA 300.0	WETA/2407		
2510814009	MW-8_20120207	EPA 300.0	WETA/2407		
2510814010	MW-9_20120207	EPA 300.0	WETA/2407		
2510814001	MW-10_20120207	EPA 353.2	WETA/2413		
2510814002	MW-13_20120207	EPA 353.2	WETA/2413		
2510814003	MW-16_20120207	EPA 353.2	WETA/2413		
2510814004	MW-17_20120207	EPA 353.2	WETA/2413		
2510814005	MW-3_20120207	EPA 353.2	WETA/2413		
2510814007	MW-6_20120207	EPA 353.2	WETA/2413		
2510814008	MW-7_20120207	EPA 353.2	WETA/2413		
2510814009	MW-8_20120207	EPA 353.2	WETA/2413		
2510814010	MW-9_20120207	EPA 353.2	WETA/2413		
2510814001	MW-10_20120207	SM 4500-NO2 B	WETA/2402		
2510814002	MW-13_20120207	SM 4500-NO2 B	WETA/2402		
2510814003	MW-16_20120207	SM 4500-NO2 B	WETA/2402		
2510814004	MW-17_20120207	SM 4500-NO2 B	WETA/2402		
2510814005	MW-3_20120207	SM 4500-NO2 B	WETA/2402		
2510814007	MW-6_20120207	SM 4500-NO2 B	WETA/2402		
2510814008	MW-7_20120207	SM 4500-NO2 B	WETA/2402		
2510814009	MW-8_20120207	SM 4500-NO2 B	WETA/2402		
2510814010	MW-9_20120207	SM 4500-NO2 B	WETA/2402		





COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2
Cooler # 1 of 3

2510814



Required Lab Information:

Lab Name: Pace-Seattle

Address:

940 S Harney Drive Seattle WA

Lab PM: Regina Ste Marie

Phone/Fax: P: 206-957-2427 F:

Lab PM email

Applicable Lab Quote #:

Required Project Information:

Site ID #: 2611255

Task: WG_S_201202

Delta project #

Site Address 19924 INTERNATIONAL BLVD

City SEATAC

State WA

Delta PM Name Bryan Taylor

Phone/Fax: P: 425-882-3528 F:

Delta PM Email: bryan.taylor@anteagroup.com

Required Invoice Information:

Send Invoice to:

Address:

City/State

Phone #:

Reimbursement project?

Non-reimbursement project?

Mark one

Send EDD to copeltdata@intelligentehs.com

CC Hardcopy report to bryan.taylor@anteagroup.com

CC Hardcopy report to

Turn around time (days) 10

QC level Required: Standard Y Special Mark one

NJ Reduced Deliverable Package?

MA MCP Cert?

CT RCP Cert?

Mark One

Lab Project ID (lab use)

Requested Analyses

300S Sulfate	370A Salinity Total	Nitrate	6010 Iron Total	6010 Manganese Total	8250B TEX	NIPTPH-DX w/Silica Gel	NIPTPH-GX
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X

Comments/Lab Sample I.D.

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives								Analyses										Comments/Lab Sample I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		MATRIX	MATRIX							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	300S-Ulate	310M-Alkalinity Total	Nitrite	6010I-on total	6010M-Manganese Total	8220B-TEX	NWTPH-DX w/1010Gx	NWTPH-Gx																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		DRINKING WATER GROUND WATER WASTE WATER FREE PRODUCT SOIL OIL WPIE AMBIENT AIR SVE AIR SOIL GAS	WATER SURFACE WATER WATER QC SLUDGE RINSEATE OTHER ANIMAL TISSUE																							W WS WQ SL WH OT TA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
1	MW-6_20120207	WG	G	2-9-12	1515	10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

Sample Receipt Conditions

D.J. RHL

2-9-12

1600

Jyoti Singh / PACE

2/9/12

1600

6-8 Y/N Y/N Y/N

7-2 Y/N Y/N Y/N

3-8 Y/N Y/N Y/N

Y/N Y/N Y/N

SHIPPING METHOD: (mark as appropriate)

SAMPLER NAME AND SIGNATURE

UPS COURIER FEDEX

PRINT Name of SAMPLER:

US MAIL

SIGNATURE of SAMPLER:

DATE Signed

Time:

Temp in °C

Samples on Ice?

Sample intact?

Trip Blank?

Sample Container Count

2510814



CLIENT: Antea

COC PAGE 1 of 2

COC ID# -

Trip Blank(s) Provided?

Y / N

Sample Line Item	VG9H	AG1H	AG1U	BP1U	BP2U	BP3U	BP3N	BP3S	WGKU	WGFU	WG2U	DG9M	DG9B	VG9W	VSG	Comments
1		<u>BP3 020912</u>														
2																
3	<u>6</u>	<u>3^{L2}</u>		<u>1</u>			<u>1^{L2}</u>	<u>1^{L2}</u>								
4																
5																
6	<u>6</u>	<u>1^{L2}</u>		<u>1</u>			<u>1^{L2}</u>	<u>1^{L2}</u>								
7	<u>↓</u>	<u>↓</u>		<u>↓</u>			<u>↓</u>	<u>↓</u>								
8	<u>↓</u>	<u>↓</u>		<u>↓</u>			<u>↓</u>	<u>↓</u>								
9	<u>↓</u>	<u>↓</u>		<u>↓</u>			<u>↓</u>	<u>↓</u>								
10																
11																
12	<u>2</u>															

AG1H	1 liter HCL amber glass	BP2S	500mL H2SO4 plastic	JGFU	4 oz amber glass soil jar
AG1U	1liter unpreserved amber glass	BP2U	500mL unpreserved plastic	WGKU	8 oz clear glass soil jar
AG2S	500mL H2SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	WGFU	4 oz clear glass soil jar
AG2U	500mL unpreserved amber glass	BP3C	250mL NaOH plastic	WG2U	2 oz clear glass soil jar
AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	JGFM	4 oz amber glass soil jar with MeOH
BG1H	1 liter HCL clear glass	BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass	BP3U	250mL unpreserved plastic	VG9W	40mL clear vial pre-weighted with DI water
BP1N	1 liter HNO3 plastic	DG9B	40mL Na Bisulfate clear vial	VSG	Headspace septa vial
BP1S	1 liter H2SO4 plastic	DG9H	40mL HCL amber voa vial	VG9H	40mL HCL clear vial
BP1U	1 liter unpreserved plastic	DG9M	40mL MeOH clear vial	WGFU	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac	DG9T	40mL Na Thio amber vial	VG9T	40mL Na Thio. clear vial
BP2N	500mL HNO3 plastic	DG9U	40mL unpreserved amber vial	ZPLC	Ziploc Bag
BP2O	500mL NaOH plastic	I	Wipe/Swab	U	Summa Can

Sample Container Count

2510814

CLIENT: Antea



COC PAGE 2 of 2

COC ID#

Trip Blank(s) Provided?

Y / N

Sample Line Item	VG9H	AG1H	AG1U	BP1U	BP2U	BP3U	BP3N	BP3S	WGKU	WGFU	WG2U	DG9M	DG9B	VG9W	VSG	Comments
1	6	12		1			12	12								
2	↓	↓		1			↓	↓								
3				1												
4	↓	↓		1			↓	↓								
5	2															
6																
7																
8																
9																
10																
11																
12																

AG1H	1 liter HCL amber glass	BP2S	500mL H2SO4 plastic	JGFU	4 oz amber glass soil jar
AG1U	1liter unpreserved amber glass	BP2U	500mL unpreserved plastic	WGKU	8 oz clear glass soil jar
AG2S	500mL H2SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	WGFU	4 oz clear glass soil jar
AG2U	500mL unpreserved amber glass	BP3C	250mL NaOH plastic	WG2U	2 oz clear glass soil jar
AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	JGFM	4 oz amber glass soil jar with MeOH
BG1H	1 liter HCL clear glass	BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass	BP3U	250mL unpreserved plastic	VG9W	40mL clear vial pre-weighted with DI water
BP1N	1 liter HNO3 plastic	DG9B	40mL Na Bisulfate clear vial	VSG	Headspace septa vial
BP1S	1 liter H2SO4 plastic	DG9H	40mL HCL amber voa vial	VG9H	40mL HCL clear vial
BP1U	1 liter unpreserved plastic	DG9M	40mL MeOH clear vial	WGFU	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac	DG9T	40mL Na Thio amber vial	VG9T	40mL Na Thio. clear vial
BP2N	500mL HNO3 plastic	DG9U	40mL unpreserved amber vial	ZPLC	Ziploc Bag
BP2O	500mL NaOH plastic	I	Wipe/Swab	U	Summa Can

February 23, 2012

Bryan Taylor
Antea USA
4006 148th Ave. NE
Redmond, WA 98052

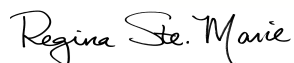
RE: Project: 2611255
Pace Project No.: 2510835

Dear Bryan Taylor:

Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Regina SteMarie

regina.stemarie@pacelabs.com
Project Manager

Enclosures

cc: Thuan Bui, Antea USA
Eric Larsen, Antea USA
Megan MacDonald, Antea USA
Justin Miller, ELT_Antea Group, Washington
Matthew Miller, ELT_Antea Group, Washington
Joe Rounds, Antea USA
Dan Rowlands, Antea USA
Hitomi Somics, Antea USA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2611255

Pace Project No.: 2510835

Washington Certification IDs

940 South Harney Street, Seattle, WA 98108

Alaska CS Certification #: UST-025

Arizona Certification #: AZ0770

California Certification #: 01153CA

Florida/NELAP Certification #: E87617

Oregon Certification #: WA200007

Washington Certification #: C555

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2611255

Pace Project No.: 2510835

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2510835001	MW-1_20120207	NWTPH-Dx	AY1	4	PASI-S
		EPA 5030B/8260	CC	8	PASI-S
		NWTPH-Gx	CC	2	PASI-S
2510835002	MW-11_20120207	NWTPH-Dx	AY1	4	PASI-S
		EPA 5030B/8260	CC	8	PASI-S
		NWTPH-Gx	CC	2	PASI-S
2510835003	MW-12_20120207	NWTPH-Dx	AY1	4	PASI-S
		EPA 5030B/8260	CC	8	PASI-S
		NWTPH-Gx	CC	2	PASI-S
2510835004	MW-4_20120207	NWTPH-Dx	AY1	4	PASI-S
		EPA 5030B/8260	CC	8	PASI-S
		NWTPH-Gx	CC	2	PASI-S
2510835005	MW-5_20120207	NWTPH-Dx	AY1	4	PASI-S
		EPA 5030B/8260	CC	8	PASI-S
		NWTPH-Gx	CC	2	PASI-S

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510835

Method: NWTPH-Dx

Description: NWTPH-Dx GCS Silica Gel

Client: ELT_Antea Group, Washington

Date: February 23, 2012

General Information:

5 samples were analyzed for NWTPH-Dx. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510835

Method: EPA 5030B/8260

Description: 8260 MSV

Client: ELT_Antea Group, Washington

Date: February 23, 2012

General Information:

5 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510835

Method: NWTPH-Gx

Description: NWTPH-Gx MSV

Client: ELT_Antea Group, Washington

Date: February 23, 2012

General Information:

5 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: MSV/6407

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2510942001

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

- MS (Lab ID: 103730)
 - Gasoline Range Organics
- MSD (Lab ID: 103731)
 - Gasoline Range Organics

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2510835

Method: NWTPH-Gx

Description: NWTPH-Gx MSV

Client: ELT_Antea Group, Washington

Date: February 23, 2012

Analyte Comments:

QC Batch: MSV/6407

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 103730)
 - Gasoline Range Organics
- MSD (Lab ID: 103731)
 - Gasoline Range Organics

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2510835

Sample: MW-1_20120207		Lab ID: 2510835001	Collected: 02/10/12 09:45	Received: 02/10/12 11:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	ND mg/L		0.076	1	02/14/12 09:30	02/14/12 17:39		
Motor Oil Range SG	ND mg/L		0.38	1	02/14/12 09:30	02/14/12 17:39	64742-65-0	
Surrogates								
n-Octacosane (S) SG	92 %		50-150	1	02/14/12 09:30	02/14/12 17:39	630-02-4	
o-Terphenyl (S) SG	96 %		50-150	1	02/14/12 09:30	02/14/12 17:39	84-15-1	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		02/20/12 13:28	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		02/20/12 13:28	100-41-4	
Toluene	ND ug/L		1.0	1		02/20/12 13:28	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		02/20/12 13:28	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102 %		79-121	1		02/20/12 13:28	460-00-4	
Dibromofluoromethane (S)	103 %		81-119	1		02/20/12 13:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	92 %		72-127	1		02/20/12 13:28	17060-07-0	
Toluene-d8 (S)	98 %		77-120	1		02/20/12 13:28	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		02/20/12 13:28		
Surrogates								
4-Bromofluorobenzene (S)	102 %		50-150	1		02/20/12 13:28	460-00-4	

Sample: MW-11_20120207		Lab ID: 2510835002	Collected: 02/10/12 09:15	Received: 02/10/12 11:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	ND mg/L		0.076	1	02/14/12 09:30	02/14/12 18:00		
Motor Oil Range SG	ND mg/L		0.38	1	02/14/12 09:30	02/14/12 18:00	64742-65-0	
Surrogates								
n-Octacosane (S) SG	92 %		50-150	1	02/14/12 09:30	02/14/12 18:00	630-02-4	
o-Terphenyl (S) SG	96 %		50-150	1	02/14/12 09:30	02/14/12 18:00	84-15-1	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		02/20/12 13:46	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		02/20/12 13:46	100-41-4	
Toluene	ND ug/L		1.0	1		02/20/12 13:46	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		02/20/12 13:46	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104 %		79-121	1		02/20/12 13:46	460-00-4	
Dibromofluoromethane (S)	102 %		81-119	1		02/20/12 13:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	92 %		72-127	1		02/20/12 13:46	17060-07-0	
Toluene-d8 (S)	99 %		77-120	1		02/20/12 13:46	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		02/20/12 13:46		

Date: 02/23/2012 09:41 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2510835

Sample: MW-11_20120207		Lab ID: 2510835002	Collected: 02/10/12 09:15	Received: 02/10/12 11:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

NWTPH-Gx MSV

Analytical Method: NWTPH-Gx

Surrogates

4-Bromofluorobenzene (S)	104 %	50-150	1	02/20/12 13:46	460-00-4
--------------------------	-------	--------	---	----------------	----------

Sample: MW-12_20120207		Lab ID: 2510835003		Collected: 02/10/12 09:00	Received: 02/10/12 11:07	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

NWTPH-Dx GCS Silica Gel

Analytical Method: NWTPH-Dx Preparation Method: EPA 3510

Diesel Range SG	ND mg/L	0.076	1	02/14/12 09:30	02/14/12 18:21
Motor Oil Range SG	ND mg/L	0.38	1	02/14/12 09:30	02/14/12 18:21 64742-65-0
Surrogates					
n-Octacosane (S) SG	92 %	50-150	1	02/14/12 09:30	02/14/12 18:21 630-02-4
o-Terphenyl (S) SG	96 %	50-150	1	02/14/12 09:30	02/14/12 18:21 84-15-1

8260 MSV

Analytical Method: EPA 5030B/8260

Benzene	ND ug/L	1.0	1	02/20/12 14:05	71-43-2
Ethylbenzene	ND ug/L	1.0	1	02/20/12 14:05	100-41-4
Toluene	ND ug/L	1.0	1	02/20/12 14:05	108-88-3
Xylene (Total)	ND ug/L	3.0	1	02/20/12 14:05	1330-20-7
Surrogates					
4-Bromofluorobenzene (S)	103 %	79-121	1	02/20/12 14:05	460-00-4
Dibromofluoromethane (S)	100 %	81-119	1	02/20/12 14:05	1868-53-7
1,2-Dichloroethane-d4 (S)	90 %	72-127	1	02/20/12 14:05	17060-07-0
Toluene-d8 (S)	98 %	77-120	1	02/20/12 14:05	2037-26-5

NWTPH-Gx MSV

Analytical Method: NWTPH-Gx

Gasoline Range Organics	ND ug/L	50.0	1	02/20/12 14:05	
Surrogates					
4-Bromofluorobenzene (S)	103 %	50-150	1	02/20/12 14:05	460-00-4

Sample: MW-4_20120207		Lab ID: 2510835004	Collected: 02/10/12 09:30	Received: 02/10/12 11:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

NWTPH-Dx GCS Silica Gel

Analytical Method: NWTPH-Dx Preparation Method: EPA 3510

Diesel Range SG	ND mg/L	0.076	1	02/14/12 09:30	02/14/12 18:41
Motor Oil Range SG	ND mg/L	0.38	1	02/14/12 09:30	02/14/12 18:41 64742-65-0
Surrogates					
n-Octacosane (S) SG	94 %	50-150	1	02/14/12 09:30	02/14/12 18:41 630-02-4
o-Terphenyl (S) SG	97 %	50-150	1	02/14/12 09:30	02/14/12 18:41 84-15-1

8260 MSV

Analytical Method: EPA 5030B/8260

Benzene	ND ug/L	1.0	1	02/20/12 14:23	71-43-2
Ethylbenzene	ND ug/L	1.0	1	02/20/12 14:23	100-41-4
Toluene	ND ug/L	1.0	1	02/20/12 14:23	108-88-3

Date: 02/23/2012 09:41 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2510835

Sample: MW-4_20120207		Lab ID: 2510835004		Collected: 02/10/12 09:30		Received: 02/10/12 11:07		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 5030B/8260							
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 14:23	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	103	%	79-121	1		02/20/12 14:23	460-00-4		
Dibromofluoromethane (S)	102	%	81-119	1		02/20/12 14:23	1868-53-7		
1,2-Dichloroethane-d4 (S)	91	%	72-127	1		02/20/12 14:23	17060-07-0		
Toluene-d8 (S)	99	%	77-120	1		02/20/12 14:23	2037-26-5		
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		02/20/12 14:23			
Surrogates									
4-Bromofluorobenzene (S)	103	%	50-150	1		02/20/12 14:23	460-00-4		

Sample: MW-5_20120207		Lab ID: 2510835005		Collected: 02/10/12 10:00		Received: 02/10/12 11:07		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
NWTPH-Dx GCS Silica Gel		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range SG	ND	mg/L	0.076	1	02/14/12 09:30	02/14/12 19:02			
Motor Oil Range SG	ND	mg/L	0.38	1	02/14/12 09:30	02/14/12 19:02	64742-65-0		
Surrogates									
n-Octacosane (S) SG	94	%	50-150	1	02/14/12 09:30	02/14/12 19:02	630-02-4		
o-Terphenyl (S) SG	97	%	50-150	1	02/14/12 09:30	02/14/12 19:02	84-15-1		
8260 MSV		Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		02/20/12 14:42	71-43-2		
Ethylbenzene	ND	ug/L	1.0	1		02/20/12 14:42	100-41-4		
Toluene	ND	ug/L	1.0	1		02/20/12 14:42	108-88-3		
Xylene (Total)	ND	ug/L	3.0	1		02/20/12 14:42	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	103	%	79-121	1		02/20/12 14:42	460-00-4		
Dibromofluoromethane (S)	102	%	81-119	1		02/20/12 14:42	1868-53-7		
1,2-Dichloroethane-d4 (S)	91	%	72-127	1		02/20/12 14:42	17060-07-0		
Toluene-d8 (S)	97	%	77-120	1		02/20/12 14:42	2037-26-5		
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		02/20/12 14:42			
Surrogates									
4-Bromofluorobenzene (S)	103	%	50-150	1		02/20/12 14:42	460-00-4		

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510835

QC Batch:	MSV/6406	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	2510835001, 2510835002, 2510835003, 2510835004, 2510835005		

METHOD BLANK:	103384	Matrix:	Water
Associated Lab Samples:	2510835001, 2510835002, 2510835003, 2510835004, 2510835005		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	02/20/12 08:53	
Ethylbenzene	ug/L	ND	1.0	02/20/12 08:53	
Toluene	ug/L	ND	1.0	02/20/12 08:53	
Xylene (Total)	ug/L	ND	3.0	02/20/12 08:53	
1,2-Dichloroethane-d4 (S)	%	85	72-127	02/20/12 08:53	
4-Bromofluorobenzene (S)	%	102	79-121	02/20/12 08:53	
Dibromofluoromethane (S)	%	100	81-119	02/20/12 08:53	
Toluene-d8 (S)	%	98	77-120	02/20/12 08:53	

LABORATORY CONTROL SAMPLE: 103385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.1	91	66-123	
Ethylbenzene	ug/L	20	17.3	87	67-122	
Toluene	ug/L	20	17.8	89	64-118	
Xylene (Total)	ug/L	60	51.8	86	68-122	
1,2-Dichloroethane-d4 (S)	%			85	72-127	
4-Bromofluorobenzene (S)	%			87	79-121	
Dibromofluoromethane (S)	%			99	81-119	
Toluene-d8 (S)	%			100	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 103721 103722

Parameter	Units	2510820001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	17.7	19.9	84	95	63-138	12	
Ethylbenzene	ug/L	ND	20	20	16.8	19.0	81	92	65-135	13	
Toluene	ug/L	ND	20	20	17.0	19.4	85	97	64-128	13	
Xylene (Total)	ug/L	ND	60	60	50.1	56.4	82	93	65-133	12	
1,2-Dichloroethane-d4 (S)	%						89	85	72-127		
4-Bromofluorobenzene (S)	%						85	85	79-121		
Dibromofluoromethane (S)	%						101	99	81-119		
Toluene-d8 (S)	%						100	101	77-120		

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510835

QC Batch:	MSV/6407	Analysis Method:	NWTPH-Gx
QC Batch Method:	NWTPH-Gx	Analysis Description:	NWTPH-Gx MSV Water
Associated Lab Samples:	2510835001, 2510835002, 2510835003, 2510835004, 2510835005		

METHOD BLANK:	103386	Matrix:	Water
Associated Lab Samples:	2510835001, 2510835002, 2510835003, 2510835004, 2510835005		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	52.7	50.0	02/20/12 08:53	
4-Bromofluorobenzene (S)	%	102	50-150	02/20/12 08:53	

LABORATORY CONTROL SAMPLE: 103387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	554	111	65-139	
4-Bromofluorobenzene (S)	%			98	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 103730 103731

Parameter	Units	2510942001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	ug/L	91700	500	500	120000	97400	5640	1150	48-147	21	E,M1
4-Bromofluorobenzene (S)	%						100	89	50-150		

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2510835

QC Batch: OEXT/5098 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS SG
Associated Lab Samples: 2510835001, 2510835002, 2510835003, 2510835004, 2510835005

METHOD BLANK: 102824 Matrix: Water
Associated Lab Samples: 2510835001, 2510835002, 2510835003, 2510835004, 2510835005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range SG	mg/L	ND	0.080	02/14/12 13:52	
Motor Oil Range SG	mg/L	ND	0.40	02/14/12 13:52	
n-Octacosane (S) SG	%	95	50-150	02/14/12 13:52	
o-Terphenyl (S) SG	%	97	50-150	02/14/12 13:52	

LABORATORY CONTROL SAMPLE: 102825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	mg/L	4	3.9	98	59-114	
Motor Oil Range SG	mg/L	4	4.2	105	69-124	
n-Octacosane (S) SG	%			94	50-150	
o-Terphenyl (S) SG	%			98	50-150	

SAMPLE DUPLICATE: 102826

Parameter	Units	2510829004 Result	Dup Result	RPD	Qualifiers
Diesel Range SG	mg/L	ND	ND		
Motor Oil Range SG	mg/L	ND	ND		
n-Octacosane (S) SG	%	89	92	3	
o-Terphenyl (S) SG	%	94	97	3	

QUALIFIERS

Project: 2611255
Pace Project No.: 2510835

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

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

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

LABORATORIES

PASI-S Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2611255

Pace Project No.: 2510835

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2510835001	MW-1_20120207	EPA 3510	OEXT/5098	NWTPH-Dx	GCSV/3311
2510835002	MW-11_20120207	EPA 3510	OEXT/5098	NWTPH-Dx	GCSV/3311
2510835003	MW-12_20120207	EPA 3510	OEXT/5098	NWTPH-Dx	GCSV/3311
2510835004	MW-4_20120207	EPA 3510	OEXT/5098	NWTPH-Dx	GCSV/3311
2510835005	MW-5_20120207	EPA 3510	OEXT/5098	NWTPH-Dx	GCSV/3311
2510835001	MW-1_20120207	EPA 5030B/8260	MSV/6406		
2510835002	MW-11_20120207	EPA 5030B/8260	MSV/6406		
2510835003	MW-12_20120207	EPA 5030B/8260	MSV/6406		
2510835004	MW-4_20120207	EPA 5030B/8260	MSV/6406		
2510835005	MW-5_20120207	EPA 5030B/8260	MSV/6406		
2510835001	MW-1_20120207	NWTPH-Gx	MSV/6407		
2510835002	MW-11_20120207	NWTPH-Gx	MSV/6407		
2510835003	MW-12_20120207	NWTPH-Gx	MSV/6407		
2510835004	MW-4_20120207	NWTPH-Gx	MSV/6407		
2510835005	MW-5_20120207	NWTPH-Gx	MSV/6407		



Sample Container Count

2510835



CLIENT: Antea

COC PAGE 1 of 1

COC ID# _____

Trip Blank(s) Provided?

Y / N
Antea 02/10/12

Sample Line Item	VG9H	AG1H	AG1U	BP1U	BP2U	BP3U	BP3N	BP3S	WGKU	WGFU	WG2U	DG9M	DG9B	VG9W	VSG	Comments
1	6	1 ²²														
2	1	1														
3	1	1														
4	1	1														
5	1	1														
6																
7																
8																
9																
10																
11																
12																

AG1H	1 liter HCL amber glass	BP2S	500mL H2SO4 plastic	JGFU	4 oz amber glass soil jar
AG1U	1liter unpreserved amber glass	BP2U	500mL unpreserved plastic	WGKU	8 oz clear glass soil jar
AG2S	500mL H2SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	WGFU	4 oz clear glass soil jar
AG2U	500mL unpreserved amber glass	BP3C	250mL NaOH plastic	WG2U	2 oz clear glass soil jar
AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	JGFM	4 oz amber glass soil jar with MeOH
BG1H	1 liter HCL clear glass	BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass	BP3U	250mL unpreserved plastic	VG9W	40mL clear vial pre-weighted with DI water
BP1N	1 liter HNO3 plastic	DG9B	40mL Na Bisulfate clear vial	VSG	Headspace septa vial
BP1S	1 liter H2SO4 plastic	DG9H	40mL HCL amber voa vial	VG9H	40mL HCL clear vial
BP1U	1 liter unpreserved plastic	DG9M	40mL MeOH clear vial	WGFU	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac	DG9T	40mL Na Thio amber vial	VG9T	40mL Na Thio. clear vial
BP2N	500mL HNO3 plastic	DG9U	40mL unpreserved amber vial	ZPLC	Ziploc Bag
BP2O	500mL NaOH plastic	I	Wipe/Swab	U	Summa Can



Sample Condition Upon Receipt

2510835

Client Name: Antea

Project # _____

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ NoPacking Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____ Temp. Blank Yes ☒ NoThermometer Used 132013 or 101731962 or 226099 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begunCooler Temperature 2.12
Temp should be above freezing $\leq 6^{\circ}\text{C}$

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 02/10/12 CW

Comments:

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Follow Up / Hold Analysis Requested:	☐ Yes ☒ No ☐ N/A	8.
Sufficient Volume:	☐ Yes ☒ No ☐ N/A	9. <u>See below</u>
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	10.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	11.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	12.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	13. <u>COC says we should have TBI-20120207 we rec'd no volume for TBI-20120207</u>
-Includes date/time/ID/Analysis Matrix: <u>WT</u>		
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	
Exceptions: <u>VOA</u> , coliform, TOC, O&G	☒ Yes ☐ No ☐ N/A	Initial when completed _____ Lot # of added preservative _____
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	15.
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	16.
Trip Blanks Present:	☐ Yes ☒ No ☐ N/A	17.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Creation Date:		

Client Notification/ Resolution:

Person Contacted: B. TaylorDate/Time: RSM 02/10-02/13/12

Field Data Required?

Y / N

Comments/ Resolution:

Notified client of missing trip blank. RSMProject Manager Review: RSMDate: 02/13/12

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

August 15, 2012

Bryan Taylor
Antea USA
4006 148th Ave. NE
Redmond, WA 98052

RE: Project: 2611255
Pace Project No.: 2513151

Dear Bryan Taylor:

Enclosed are the analytical results for sample(s) received by the laboratory on August 01, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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

Sincerely,



Karen Jang

karen.jang@pacelabs.com
Project Manager

Enclosures

cc: Thuan Bui, Antea USA
Eric Larsen, Antea USA
Megan MacDonald, Antea USA
Justin Miller, ELT_Antea Group, Washington
Matthew Miller, ELT_Antea Group, Washington
Joe Rounds, Antea USA

Dan Rowlands, Antea USA
Hitomi Somics, Antea USA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2611255

Pace Project No.: 2513151

Washington Certification IDs

940 South Harney Street, Seattle, WA 98108

Alaska CS Certification #: UST-025

Arizona Certification #: AZ0770

California Certification #: 01153CA

Florida/NELAP Certification #: E87617

Oregon Certification #: WA200007

Washington Certification #: C555

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: 2611255
Pace Project No.: 2513151

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2513151001	MW-1_20120801	NWTPH-Dx	AY1	4	PASI-S
		EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S
2513151002	MW-10_20120801	NWTPH-Dx	AY1	4	PASI-S
		EPA 6010	BGA	3	PASI-S
		EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S
		SM 2320B	RAB	1	PASI-S
		EPA 300.0	KMT	1	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
2513151003	MW-11_20120801	EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
2513151004	MW-12_20120801	EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S
		NWTPH-Dx	MTJ	4	PASI-S
2513151005	MW-13_20120801	EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S
		NWTPH-Dx	MTJ	4	PASI-S
2513151006	MW-16_20120801	EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S
		NWTPH-Dx	MTJ	4	PASI-S
2513151007	MW-17_20120801	EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S
		SM 2320B	RAB	1	PASI-S
		EPA 300.0	KMT	1	PASI-S
		NWTPH-Dx	MTJ	4	PASI-S
		EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S
2513151008	MW-3_20120801	NWTPH-Dx	MTJ	4	PASI-S
		EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S
2513151009	MW-4_20120801	NWTPH-Dx	MTJ	4	PASI-S
		EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S
2513151011	MW-5_20120801	NWTPH-Dx	MTJ	4	PASI-S
		EPA 6010	BGA	3	PASI-S
		EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2611255

Pace Project No.: 2513151

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2513151012	MW-6_20120801	SM 2320B	RAB	1	PASI-S
		EPA 300.0	KMT	1	PASI-S
		NWTPH-Dx	MTJ	4	PASI-S
		EPA 5030B/8260	BAG	8	PASI-S
2513151013	MW-7_20120801	NWTPH-Gx	BAG	2	PASI-S
		NWTPH-Dx	MTJ	4	PASI-S
		EPA 6010	BGA	3	PASI-S
		EPA 5030B/8260	BAG	8	PASI-S
2513151014	MW-8_20120801	NWTPH-Gx	BAG	2	PASI-S
		SM 2320B	RAB	1	PASI-S
		EPA 300.0	KMT	1	PASI-S
		NWTPH-Dx	MTJ	4	PASI-S
2513151015	MW-9_20120801	EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S
		NWTPH-Dx	MTJ	4	PASI-S
		EPA 5030B/8260	BAG	8	PASI-S
		NWTPH-Gx	BAG	2	PASI-S

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2513151

Method: NWTPH-Dx

Description: NWTPH-Dx GCS LVI SG

Client: ELT_Antea Group, Washington

Date: August 15, 2012

General Information:

14 samples were analyzed for NWTPH-Dx. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2513151

Method: EPA 6010

Description: 6010 MET ICP

Client: ELT_Antea Group, Washington

Date: August 15, 2012

General Information:

4 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: MPRP/3232

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2513151002

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

- MS (Lab ID: 126019)
 - Manganese
- MSD (Lab ID: 126020)
 - Manganese

Additional Comments:

Analyte Comments:

QC Batch: MPRP/3232

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- BLANK (Lab ID: 126017)
 - Lead

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2513151

Method: EPA 5030B/8260

Description: 8260 MSV

Client: ELT_Antea Group, Washington

Date: August 15, 2012

General Information:

14 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: MSV/7537

1n: Analyte was detected in the method blank. The sample had a concentration of at least ten times greater than the blank.

- MW-16_20120801 (Lab ID: 2513151006)
 - Toluene

B: Analyte was detected in the associated method blank.

- MW-7_20120801 (Lab ID: 2513151013)
 - Toluene
- MW-8_20120801 (Lab ID: 2513151014)
 - Toluene
- MW-9_20120801 (Lab ID: 2513151015)
 - Toluene

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2513151

Method: EPA 5030B/8260

Description: 8260 MSV

Client: ELT_Antea Group, Washington

Date: August 15, 2012

Analyte Comments:

QC Batch: MSV/7537

D4: Sample was diluted due to the presence of high levels of target analytes.

- MW-16_20120801 (Lab ID: 2513151006)
- 4-Bromofluorobenzene (S)

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PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2513151

Method: NWTPH-Gx

Description: NWTPH-Gx MSV

Client: ELT_Antea Group, Washington

Date: August 15, 2012

General Information:

14 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: MSV/7510

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/7526

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/7588

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

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

QC Batch: MSV/7538

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 126435)
- Gasoline Range Organics

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2513151

Method: NWTPH-Gx

Description: NWTPH-Gx MSV

Client: ELT_Antea Group, Washington

Date: August 15, 2012

Analyte Comments:

QC Batch: MSV/7526

D4: Sample was diluted due to the presence of high levels of target analytes.

- MW-10_20120801 (Lab ID: 2513151002)
 - Gasoline Range Organics
- MW-17_20120801 (Lab ID: 2513151007)
 - Gasoline Range Organics
- MW-6_20120801 (Lab ID: 2513151012)
 - Gasoline Range Organics

QC Batch: MSV/7538

D4: Sample was diluted due to the presence of high levels of target analytes.

- MW-16_20120801 (Lab ID: 2513151006)
 - Gasoline Range Organics

QC Batch: MSV/7546

D4: Sample was diluted due to the presence of high levels of target analytes.

- MW-8_20120801 (Lab ID: 2513151014)
 - Gasoline Range Organics
- MW-9_20120801 (Lab ID: 2513151015)
 - Gasoline Range Organics

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PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2513151

Method: SM 2320B

Description: 2320B Alkalinity

Client: ELT_Antea Group, Washington

Date: August 15, 2012

General Information:

4 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 2611255

Pace Project No.: 2513151

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: ELT_Antea Group, Washington

Date: August 15, 2012

General Information:

4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2513151

Sample: MW-1_20120801		Lab ID: 2513151001	Collected: 08/01/12 13:40	Received: 08/01/12 14:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LVI SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified						
Diesel Range SG	ND ug/L		154	1	08/08/12 12:30	08/10/12 02:06		
Motor Oil Range SG	ND ug/L		481	1	08/08/12 12:30	08/10/12 02:06	64742-65-0	
Surrogates								
n-Octacosane (S) SG	93 %		50-150	1	08/08/12 12:30	08/10/12 02:06	630-02-4	
o-Terphenyl (S) SG	90 %		50-150	1	08/08/12 12:30	08/10/12 02:06	84-15-1	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	2.7 ug/L		1.0	1		08/02/12 18:01	71-43-2	
Ethylbenzene	1.3 ug/L		1.0	1		08/02/12 18:01	100-41-4	
Toluene	ND ug/L		1.0	1		08/02/12 18:01	108-88-3	
Xylene (Total)	4.8 ug/L		3.0	1		08/02/12 18:01	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		79-121	1		08/02/12 18:01	460-00-4	
Dibromofluoromethane (S)	96 %		81-119	1		08/02/12 18:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	87 %		72-127	1		08/02/12 18:01	17060-07-0	
Toluene-d8 (S)	102 %		77-120	1		08/02/12 18:01	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		08/02/12 18:01		
Surrogates								
4-Bromofluorobenzene (S)	101 %		50-150	1		08/02/12 18:01	460-00-4	

Sample: MW-10_20120801		Lab ID: 2513151002	Collected: 08/01/12 12:00	Received: 08/01/12 14:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LVI SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified						
Diesel Range SG	672 ug/L		167	1	08/08/12 12:30	08/10/12 02:23		
Motor Oil Range SG	ND ug/L		521	1	08/08/12 12:30	08/10/12 02:23	64742-65-0	
Surrogates								
n-Octacosane (S) SG	89 %		50-150	1	08/08/12 12:30	08/10/12 02:23	630-02-4	
o-Terphenyl (S) SG	81 %		50-150	1	08/08/12 12:30	08/10/12 02:23	84-15-1	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Iron	4350 ug/L		100	1	08/06/12 11:19	08/07/12 10:50	7439-89-6	
Lead	ND ug/L		10.0	1	08/06/12 11:19	08/07/12 10:50	7439-92-1	
Manganese	4410 ug/L		15.0	1	08/06/12 11:19	08/07/12 10:50	7439-96-5	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	2.5 ug/L		1.0	1		08/02/12 18:17	71-43-2	
Ethylbenzene	151 ug/L		1.0	1		08/02/12 18:17	100-41-4	
Toluene	1.4 ug/L		1.0	1		08/02/12 18:17	108-88-3	
Xylene (Total)	664 ug/L		30.0	10		08/03/12 13:55	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	88 %		79-121	1		08/02/12 18:17	460-00-4	
Dibromofluoromethane (S)	98 %		81-119	1		08/02/12 18:17	1868-53-7	

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ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2513151

Sample: MW-10_20120801		Lab ID: 2513151002		Collected: 08/01/12 12:00		Received: 08/01/12 14:07		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260							
Surrogates									
1,2-Dichloroethane-d4 (S)		91 %		72-127	1		08/02/12 18:17	17060-07-0	
Toluene-d8 (S)		103 %		77-120	1		08/02/12 18:17	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics		6830 ug/L		500	10		08/03/12 13:55		D4
Surrogates									
4-Bromofluorobenzene (S)		99 %		50-150	10		08/03/12 13:55	460-00-4	
2320B Alkalinity		Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3		210000 ug/L		1000	1		08/02/12 12:15		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Sulfate		25200 ug/L		2000	2		08/03/12 22:01	14808-79-8	

Sample: MW-11_20120801		Lab ID: 2513151003		Collected: 08/01/12 11:00		Received: 08/01/12 14:07		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LVI SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified							
Diesel Range SG		ND ug/L		154	1	08/08/12 12:30	08/10/12 02:40		
Motor Oil Range SG		ND ug/L		481	1	08/08/12 12:30	08/10/12 02:40	64742-65-0	
Surrogates									
n-Octacosane (S) SG		103 %		50-150	1	08/08/12 12:30	08/10/12 02:40	630-02-4	
o-Terphenyl (S) SG		97 %		50-150	1	08/08/12 12:30	08/10/12 02:40	84-15-1	
8260 MSV		Analytical Method: EPA 5030B/8260							
Benzene		1.3 ug/L		1.0	1		08/02/12 18:34	71-43-2	
Ethylbenzene		1.7 ug/L		1.0	1		08/02/12 18:34	100-41-4	
Toluene		ND ug/L		1.0	1		08/02/12 18:34	108-88-3	
Xylene (Total)		6.8 ug/L		3.0	1		08/02/12 18:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)		97 %		79-121	1		08/02/12 18:34	460-00-4	
Dibromofluoromethane (S)		96 %		81-119	1		08/02/12 18:34	1868-53-7	
1,2-Dichloroethane-d4 (S)		89 %		72-127	1		08/02/12 18:34	17060-07-0	
Toluene-d8 (S)		106 %		77-120	1		08/02/12 18:34	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics		ND ug/L		50.0	1		08/07/12 05:04		
Surrogates									
4-Bromofluorobenzene (S)		102 %		50-150	1		08/07/12 05:04	460-00-4	

ANALYTICAL RESULTS

Project: 2611255

Pace Project No.: 2513151

Sample: MW-12_20120801		Lab ID: 2513151004		Collected: 08/01/12 10:00		Received: 08/01/12 14:07		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
NWTPH-Dx GCS LVI SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified							
Diesel Range SG	ND	ug/L	174	1	08/08/12 12:30	08/10/12 02:58			
Motor Oil Range SG	ND	ug/L	543	1	08/08/12 12:30	08/10/12 02:58	64742-65-0		
Surrogates									
n-Octacosane (S) SG	111	%	50-150	1	08/08/12 12:30	08/10/12 02:58	630-02-4		
o-Terphenyl (S) SG	103	%	50-150	1	08/08/12 12:30	08/10/12 02:58	84-15-1		
8260 MSV		Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		08/02/12 18:51	71-43-2		
Ethylbenzene	ND	ug/L	1.0	1		08/02/12 18:51	100-41-4		
Toluene	ND	ug/L	1.0	1		08/02/12 18:51	108-88-3		
Xylene (Total)	3.7	ug/L	3.0	1		08/02/12 18:51	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	101	%	79-121	1		08/02/12 18:51	460-00-4		
Dibromofluoromethane (S)	97	%	81-119	1		08/02/12 18:51	1868-53-7		
1,2-Dichloroethane-d4 (S)	90	%	72-127	1		08/02/12 18:51	17060-07-0		
Toluene-d8 (S)	102	%	77-120	1		08/02/12 18:51	2037-26-5		
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		08/02/12 18:51			
Surrogates									
4-Bromofluorobenzene (S)	101	%	50-150	1		08/02/12 18:51	460-00-4		

Sample: MW-13_20120801		Lab ID: 2513151005	Collected: 08/01/12 10:20	Received: 08/01/12 14:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LVI SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified						
Diesel Range SG	ND ug/L		174	1	08/08/12 12:30	08/10/12 17:14		
Motor Oil Range SG	ND ug/L		543	1	08/08/12 12:30	08/10/12 17:14	64742-65-0	
Surrogates								
n-Octacosane (S) SG	106 %		50-150	1	08/08/12 12:30	08/10/12 17:14	630-02-4	
o-Terphenyl (S) SG	100 %		50-150	1	08/08/12 12:30	08/10/12 17:14	84-15-1	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		08/02/12 19:08	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		08/02/12 19:08	100-41-4	
Toluene	ND ug/L		1.0	1		08/02/12 19:08	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		08/02/12 19:08	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102 %		79-121	1		08/02/12 19:08	460-00-4	
Dibromofluoromethane (S)	95 %		81-119	1		08/02/12 19:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	87 %		72-127	1		08/02/12 19:08	17060-07-0	
Toluene-d8 (S)	105 %		77-120	1		08/02/12 19:08	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		08/02/12 19:08		

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ANALYTICAL RESULTS

Project: 2611255

Pace Project No.: 2513151

Sample: MW-13_20120801		Lab ID: 2513151005	Collected: 08/01/12 10:20	Received: 08/01/12 14:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

NWTPH-Gx MSV

Analytical Method: NWTPH-Gx

Surrogates

4-Bromofluorobenzene (S)	102 %	50-150	1	08/02/12 19:08	460-00-4
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Sample: MW-16_20120801		Lab ID: 2513151006		Collected: 08/01/12 11:40	Received: 08/01/12 14:07	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

NWTPH-Dx GCS LVI SG

Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified

Diesel Range SG	1880 ug/L	154	1	08/08/12 12:30	08/10/12 17:31
Motor Oil Range SG	ND ug/L	481	1	08/08/12 12:30	08/10/12 17:31 64742-65-0
Surrogates					
n-Octacosane (S) SG	101 %	50-150	1	08/08/12 12:30	08/10/12 17:31 630-02-4
o-Terphenyl (S) SG	96 %	50-150	1	08/08/12 12:30	08/10/12 17:31 84-15-1

8260 MSV

Analytical Method: EPA 5030B/8260

Benzene	811 ug/L	50.0	50	08/07/12 06:00	71-43-2
Ethylbenzene	1420 ug/L	50.0	50	08/07/12 06:00	100-41-4
Toluene	1950 ug/L	50.0	50	08/07/12 06:00	108-88-3 1n
Xylene (Total)	6900 ug/L	150	50	08/07/12 06:00	1330-20-7
Surrogates					
4-Bromofluorobenzene (S)	93 %	79-121	50	08/07/12 06:00	460-00-4 D4
Dibromofluoromethane (S)	108 %	81-119	50	08/07/12 06:00	1868-53-7
1,2-Dichloroethane-d4 (S)	115 %	72-127	50	08/07/12 06:00	17060-07-0
Toluene-d8 (S)	102 %	77-120	50	08/07/12 06:00	2037-26-5

NWTPH-Gx MSV

Analytical Method: NWTPH-Gx

Gasoline Range Organics	59900 ug/L	2500	50	08/07/12 06:00	D4
Surrogates					
4-Bromofluorobenzene (S)	93 %	50-150	50	08/07/12 06:00	460-00-4

Sample: MW-17_20120801		Lab ID: 2513151007	Collected: 08/01/12 12:40	Received: 08/01/12 14:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

NWTPH-Dx GCS LVI SG

Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified

Diesel Range SG	649 ug/L	167	1	08/08/12 12:30	08/10/12 17:48
Motor Oil Range SG	ND ug/L	521	1	08/08/12 12:30	08/10/12 17:48 64742-65-0
Surrogates					
n-Octacosane (S) SG	91 %	50-150	1	08/08/12 12:30	08/10/12 17:48 630-02-4
o-Terphenyl (S) SG	86 %	50-150	1	08/08/12 12:30	08/10/12 17:48 84-15-1

6010 MET ICP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Iron	1150 ug/L	100	1	08/06/12 11:19	08/07/12 11:08 7439-89-6
Lead	ND ug/L	10.0	1	08/06/12 11:19	08/07/12 11:08 7439-92-1
Manganese	3590 ug/L	15.0	1	08/06/12 11:19	08/07/12 11:08 7439-96-5

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ANALYTICAL RESULTS

Project: 2611255

Pace Project No.: 2513151

Sample: MW-17_20120801		Lab ID: 2513151007		Collected: 08/01/12 12:40		Received: 08/01/12 14:07		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260							
Benzene		100	ug/L	1.0	1		08/02/12 19:42	71-43-2	
Ethylbenzene		395	ug/L	10.0	10		08/03/12 14:15	100-41-4	
Toluene		12.5	ug/L	1.0	1		08/02/12 19:42	108-88-3	
Xylene (Total)		92.5	ug/L	3.0	1		08/02/12 19:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)		90	%	79-121	1		08/02/12 19:42	460-00-4	
Dibromofluoromethane (S)		97	%	81-119	1		08/02/12 19:42	1868-53-7	
1,2-Dichloroethane-d4 (S)		88	%	72-127	1		08/02/12 19:42	17060-07-0	
Toluene-d8 (S)		101	%	77-120	1		08/02/12 19:42	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics		4990	ug/L	500	10		08/03/12 14:15		D4
Surrogates									
4-Bromofluorobenzene (S)		99	%	50-150	10		08/03/12 14:15	460-00-4	
2320B Alkalinity		Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3		220000	ug/L	1000	1		08/02/12 12:15		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Sulfate		1150	ug/L	1000	1		08/03/12 22:38	14808-79-8	

Sample: MW-3_20120801		Lab ID: 2513151008	Collected: 08/01/12 09:40	Received: 08/01/12 14:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LVI SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified						
Diesel Range SG	ND	ug/L	167	1	08/08/12 12:30	08/10/12 18:05		
Motor Oil Range SG	ND	ug/L	521	1	08/08/12 12:30	08/10/12 18:05	64742-65-0	
Surrogates								
n-Octacosane (S) SG	104	%	50-150	1	08/08/12 12:30	08/10/12 18:05	630-02-4	
o-Terphenyl (S) SG	99	%	50-150	1	08/08/12 12:30	08/10/12 18:05	84-15-1	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		08/07/12 05:21	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/07/12 05:21	100-41-4	
Toluene	ND	ug/L	1.0	1		08/07/12 05:21	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/07/12 05:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	79-121	1		08/07/12 05:21	460-00-4	
Dibromofluoromethane (S)	104	%	81-119	1		08/07/12 05:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	89	%	72-127	1		08/07/12 05:21	17060-07-0	
Toluene-d8 (S)	103	%	77-120	1		08/07/12 05:21	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND	ug/L	50.0	1		08/14/12 18:48		

ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2513151

Sample: MW-3_20120801		Lab ID: 2513151008	Collected: 08/01/12 09:40	Received: 08/01/12 14:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

NWTPH-Gx MSV

Analytical Method: NWTPH-Gx

Surrogates

4-Bromofluorobenzene (S) 97 % 50-150 1 08/14/12 18:48 460-00-4

Sample: MW-4_20120801		Lab ID: 2513151009	Collected: 08/01/12 12:20	Received: 08/01/12 14:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

NWTPH-Dx GCS LVI SG

Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified

Diesel Range SG ND ug/L 154 1 08/08/12 12:30 08/10/12 18:39
Motor Oil Range SG ND ug/L 481 1 08/08/12 12:30 08/10/12 18:39 64742-65-0
Surrogates
n-Octacosane (S) SG 100 % 50-150 1 08/08/12 12:30 08/10/12 18:39 630-02-4
o-Terphenyl (S) SG 94 % 50-150 1 08/08/12 12:30 08/10/12 18:39 84-15-1

8260 MSV

Analytical Method: EPA 5030B/8260

Benzene ND ug/L 1.0 1 08/02/12 20:32 71-43-2
Ethylbenzene 2.3 ug/L 1.0 1 08/02/12 20:32 100-41-4
Toluene 1.8 ug/L 1.0 1 08/02/12 20:32 108-88-3
Xylene (Total) 8.0 ug/L 3.0 1 08/02/12 20:32 1330-20-7
Surrogates
4-Bromofluorobenzene (S) 101 % 79-121 1 08/02/12 20:32 460-00-4
Dibromofluoromethane (S) 99 % 81-119 1 08/02/12 20:32 1868-53-7
1,2-Dichloroethane-d4 (S) 87 % 72-127 1 08/02/12 20:32 17060-07-0
Toluene-d8 (S) 105 % 77-120 1 08/02/12 20:32 2037-26-5

NWTPH-Gx MSV

Analytical Method: NWTPH-Gx

Gasoline Range Organics ND ug/L 50.0 1 08/14/12 19:05
Surrogates
4-Bromofluorobenzene (S) 97 % 50-150 1 08/14/12 19:05 460-00-4

Sample: MW-5_20120801		Lab ID: 2513151011	Collected: 08/01/12 09:20	Received: 08/01/12 14:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

NWTPH-Dx GCS LVI SG

Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified

Diesel Range SG ND ug/L 154 1 08/08/12 12:30 08/10/12 18:56
Motor Oil Range SG ND ug/L 481 1 08/08/12 12:30 08/10/12 18:56 64742-65-0
Surrogates
n-Octacosane (S) SG 102 % 50-150 1 08/08/12 12:30 08/10/12 18:56 630-02-4
o-Terphenyl (S) SG 98 % 50-150 1 08/08/12 12:30 08/10/12 18:56 84-15-1

6010 MET ICP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Iron ND ug/L 100 1 08/06/12 11:19 08/07/12 11:11 7439-89-6
Lead ND ug/L 10.0 1 08/06/12 11:19 08/07/12 11:11 7439-92-1
Manganese ND ug/L 15.0 1 08/06/12 11:19 08/07/12 11:11 7439-96-5

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ANALYTICAL RESULTS

Project: 2611255

Pace Project No.: 2513151

Sample: MW-5_20120801		Lab ID: 2513151011		Collected: 08/01/12 09:20		Received: 08/01/12 14:07		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1			08/02/12 20:49	71-43-2	
Ethylbenzene	1.6	ug/L	1.0	1			08/02/12 20:49	100-41-4	
Toluene	1.3	ug/L	1.0	1			08/02/12 20:49	108-88-3	
Xylene (Total)	6.0	ug/L	3.0	1			08/02/12 20:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-121	1			08/02/12 20:49	460-00-4	
Dibromofluoromethane (S)	96	%	81-119	1			08/02/12 20:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	85	%	72-127	1			08/02/12 20:49	17060-07-0	
Toluene-d8 (S)	103	%	77-120	1			08/02/12 20:49	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1			08/14/12 19:22		
Surrogates									
4-Bromofluorobenzene (S)	99	%	50-150	1			08/14/12 19:22	460-00-4	
2320B Alkalinity		Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	37600	ug/L	1000	1			08/02/12 12:15		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Sulfate	18000	ug/L	1000	1			08/03/12 16:51	14808-79-8	

Sample: MW-6_20120801		Lab ID: 2513151012		Collected: 08/01/12 13:00		Received: 08/01/12 14:07		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LVI SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified							
Diesel Range SG	2070	ug/L	154	1	08/08/12 12:30	08/10/12 19:13			
Motor Oil Range SG	ND	ug/L	481	1	08/08/12 12:30	08/10/12 19:13	64742-65-0		
Surrogates									
n-Octacosane (S) SG	101	%	50-150	1	08/08/12 12:30	08/10/12 19:13	630-02-4		
o-Terphenyl (S) SG	97	%	50-150	1	08/08/12 12:30	08/10/12 19:13	84-15-1		
8260 MSV		Analytical Method: EPA 5030B/8260							
Benzene	294	ug/L	10.0	10		08/03/12 14:34	71-43-2		
Ethylbenzene	712	ug/L	10.0	10		08/03/12 14:34	100-41-4		
Toluene	7.8	ug/L	1.0	1		08/02/12 21:06	108-88-3		
Xylene (Total)	2200	ug/L	30.0	10		08/03/12 14:34	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	87	%	79-121	1		08/02/12 21:06	460-00-4		
Dibromofluoromethane (S)	93	%	81-119	1		08/02/12 21:06	1868-53-7		
1,2-Dichloroethane-d4 (S)	89	%	72-127	1		08/02/12 21:06	17060-07-0		
Toluene-d8 (S)	103	%	77-120	1		08/02/12 21:06	2037-26-5		
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	28300	ug/L	500	10		08/03/12 14:34			D4

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ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2513151

Sample: MW-6_20120801		Lab ID: 2513151012		Collected: 08/01/12 13:00		Received: 08/01/12 14:07		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Surrogates									
4-Bromofluorobenzene (S)	91 %		50-150	10		08/03/12 14:34	460-00-4		
Sample: MW-7_20120801		Lab ID: 2513151013		Collected: 08/01/12 10:40		Received: 08/01/12 14:07		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
NWTPH-Dx GCS LVI SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified							
Diesel Range SG	343 ug/L		167	1	08/08/12 12:30	08/10/12 19:30			
Motor Oil Range SG	ND ug/L		521	1	08/08/12 12:30	08/10/12 19:30	64742-65-0		
Surrogates									
n-Octacosane (S) SG	107 %		50-150	1	08/08/12 12:30	08/10/12 19:30	630-02-4		
o-Terphenyl (S) SG	99 %		50-150	1	08/08/12 12:30	08/10/12 19:30	84-15-1		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	1720 ug/L		100	1	08/06/12 11:19	08/07/12 11:15	7439-89-6		
Lead	ND ug/L		10.0	1	08/06/12 11:19	08/07/12 11:15	7439-92-1		
Manganese	3350 ug/L		15.0	1	08/06/12 11:19	08/07/12 11:15	7439-96-5		
8260 MSV		Analytical Method: EPA 5030B/8260							
Benzene	ND ug/L		1.0	1		08/07/12 06:17	71-43-2		
Ethylbenzene	110 ug/L		1.0	1		08/07/12 06:17	100-41-4		
Toluene	2.7 ug/L		1.0	1		08/07/12 06:17	108-88-3	B	
Xylene (Total)	364 ug/L		3.0	1		08/07/12 06:17	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	84 %		79-121	1		08/07/12 06:17	460-00-4		
Dibromofluoromethane (S)	103 %		81-119	1		08/07/12 06:17	1868-53-7		
1,2-Dichloroethane-d4 (S)	95 %		72-127	1		08/07/12 06:17	17060-07-0		
Toluene-d8 (S)	98 %		77-120	1		08/07/12 06:17	2037-26-5		
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	4930 ug/L		50.0	1		08/07/12 06:17			
Surrogates									
4-Bromofluorobenzene (S)	84 %		50-150	1		08/07/12 06:17	460-00-4		
2320B Alkalinity		Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	189000 ug/L		1000	1		08/02/12 12:15			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Sulfate	11800 ug/L		1000	1		08/06/12 14:13	14808-79-8		

ANALYTICAL RESULTS

Project: 2611255
Pace Project No.: 2513151

Sample: MW-8_20120801		Lab ID: 2513151014	Collected: 08/01/12 11:20	Received: 08/01/12 14:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LVI SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified						
Diesel Range SG	685 ug/L		154	1	08/08/12 12:30	08/10/12 20:21		
Motor Oil Range SG	ND ug/L		481	1	08/08/12 12:30	08/10/12 20:21	64742-65-0	
Surrogates								
n-Octacosane (S) SG	84 %		50-150	1	08/08/12 12:30	08/10/12 20:21	630-02-4	
o-Terphenyl (S) SG	83 %		50-150	1	08/08/12 12:30	08/10/12 20:21	84-15-1	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	108 ug/L		1.0	1		08/07/12 06:34	71-43-2	
Ethylbenzene	120 ug/L		1.0	1		08/07/12 06:34	100-41-4	
Toluene	6.6 ug/L		1.0	1		08/07/12 06:34	108-88-3	B
Xylene (Total)	264 ug/L		3.0	1		08/07/12 06:34	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	83 %		79-121	1		08/07/12 06:34	460-00-4	
Dibromofluoromethane (S)	99 %		81-119	1		08/07/12 06:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	90 %		72-127	1		08/07/12 06:34	17060-07-0	
Toluene-d8 (S)	101 %		77-120	1		08/07/12 06:34	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	6110 ug/L		500	10		08/07/12 20:18		D4
Surrogates								
4-Bromofluorobenzene (S)	93 %		50-150	10		08/07/12 20:18	460-00-4	

Sample: MW-9_20120801		Lab ID: 2513151015	Collected: 08/01/12 13:20	Received: 08/01/12 14:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LVI SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 Modified						
Diesel Range SG	1640 ug/L		154	1	08/08/12 12:30	08/10/12 20:38		
Motor Oil Range SG	ND ug/L		481	1	08/08/12 12:30	08/10/12 20:38	64742-65-0	
Surrogates								
n-Octacosane (S) SG	101 %		50-150	1	08/08/12 12:30	08/10/12 20:38	630-02-4	
o-Terphenyl (S) SG	100 %		50-150	1	08/08/12 12:30	08/10/12 20:38	84-15-1	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	169 ug/L		1.0	1		08/07/12 06:51	71-43-2	
Ethylbenzene	818 ug/L		10.0	10		08/07/12 17:25	100-41-4	
Toluene	5.0 ug/L		1.0	1		08/07/12 06:51	108-88-3	B
Xylene (Total)	1430 ug/L		30.0	10		08/07/12 17:25	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	84 %		79-121	1		08/07/12 06:51	460-00-4	
Dibromofluoromethane (S)	100 %		81-119	1		08/07/12 06:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	90 %		72-127	1		08/07/12 06:51	17060-07-0	
Toluene-d8 (S)	98 %		77-120	1		08/07/12 06:51	2037-26-5	
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	18100 ug/L		500	10		08/07/12 17:25		D4

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ANALYTICAL RESULTS

Project: 2611255

Pace Project No.: 2513151

Sample: MW-9_20120801		Lab ID: 2513151015		Collected: 08/01/12 13:20		Received: 08/01/12 14:07		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx MSV		Analytical Method: NWTPH-Gx							
Surrogates									
4-Bromofluorobenzene (S)		89 %		50-150	10		08/07/12 17:25	460-00-4	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2513151

QC Batch: MPRP/3232 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 2513151002, 2513151007, 2513151011, 2513151013

METHOD BLANK: 126017 Matrix: Water
Associated Lab Samples: 2513151002, 2513151007, 2513151011, 2513151013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	100	08/07/12 10:43	P8
Lead	ug/L	16.0	10.0	08/07/12 10:43	
Manganese	ug/L	ND	15.0	08/07/12 10:43	

LABORATORY CONTROL SAMPLE: 126018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10000	100	80-120	
Lead	ug/L	500	498	100	80-120	
Manganese	ug/L	500	508	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 126019 126020

Parameter	Units	2513151002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Iron	ug/L	4350	10000	10000	14200	14400	98	101	75-125	2	
Lead	ug/L	ND	500	500	496	505	98	100	75-125	2	
Manganese	ug/L	4410	500	500	4650	4650	49	47	75-125	.1 M1	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2513151

QC Batch:	MSV/7509	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	2513151001, 2513151002, 2513151003, 2513151004, 2513151005, 2513151007, 2513151009, 2513151011, 2513151012		

METHOD BLANK: 125697

Matrix: Water

Associated Lab Samples: 2513151001, 2513151002, 2513151003, 2513151004, 2513151005, 2513151007, 2513151009, 2513151011, 2513151012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/02/12 16:19	
Ethylbenzene	ug/L	ND	1.0	08/02/12 16:19	
Toluene	ug/L	ND	1.0	08/02/12 16:19	
Xylene (Total)	ug/L	ND	3.0	08/02/12 16:19	
1,2-Dichloroethane-d4 (S)	%	96	72-127	08/02/12 16:19	
4-Bromofluorobenzene (S)	%	104	79-121	08/02/12 16:19	
Dibromofluoromethane (S)	%	97	81-119	08/02/12 16:19	
Toluene-d8 (S)	%	101	77-120	08/02/12 16:19	

LABORATORY CONTROL SAMPLE: 125698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	16.2	81	66-123	
Ethylbenzene	ug/L	20	18.3	92	67-122	
Toluene	ug/L	20	17.5	88	64-118	
Xylene (Total)	ug/L	60	55.8	93	68-122	
1,2-Dichloroethane-d4 (S)	%			93	72-127	
4-Bromofluorobenzene (S)	%			92	79-121	
Dibromofluoromethane (S)	%			99	81-119	
Toluene-d8 (S)	%			102	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 125699

125700

Parameter	Units	2513149001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	16.0	16.0	78	78	63-138	.2	
Ethylbenzene	ug/L	1.2	20	20	18.6	18.6	87	87	65-135	.3	
Toluene	ug/L	ND	20	20	17.1	16.8	84	83	64-128	2	
Xylene (Total)	ug/L	ND	60	60	57.2	57.1	92	91	65-133	.3	
1,2-Dichloroethane-d4 (S)	%						89	90	72-127		
4-Bromofluorobenzene (S)	%						91	92	79-121		
Dibromofluoromethane (S)	%						96	97	81-119		
Toluene-d8 (S)	%						103	102	77-120		

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2513151

QC Batch:	MSV/7537	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	2513151006, 2513151008, 2513151013, 2513151014, 2513151015		

METHOD BLANK:	126098	Matrix:	Water
Associated Lab Samples:	2513151006, 2513151008, 2513151013, 2513151014, 2513151015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/07/12 01:25	
Ethylbenzene	ug/L	ND	1.0	08/07/12 01:25	
Toluene	ug/L	1.1	1.0	08/07/12 01:25	
Xylene (Total)	ug/L	ND	3.0	08/07/12 01:25	
1,2-Dichloroethane-d4 (S)	%	88	72-127	08/07/12 01:25	
4-Bromofluorobenzene (S)	%	99	79-121	08/07/12 01:25	
Dibromofluoromethane (S)	%	99	81-119	08/07/12 01:25	
Toluene-d8 (S)	%	103	77-120	08/07/12 01:25	

LABORATORY CONTROL SAMPLE: 126099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.6	93	66-123	
Ethylbenzene	ug/L	20	20.9	104	67-122	
Toluene	ug/L	20	21.1	105	64-118	
Xylene (Total)	ug/L	60	65.2	109	68-122	
1,2-Dichloroethane-d4 (S)	%			88	72-127	
4-Bromofluorobenzene (S)	%			91	79-121	
Dibromofluoromethane (S)	%			101	81-119	
Toluene-d8 (S)	%			100	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 126602 126603

Parameter	Units	2513230001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	1.2	20	20	19.3	19.2	91	90	63-138	.9	
Ethylbenzene	ug/L	6.1	20	20	22.7	22.2	83	81	65-135	2	
Toluene	ug/L	ND	20	20	20.6	20.2	101	99	64-128	2	
Xylene (Total)	ug/L	11.8	60	60	66.1	66.0	90	90	65-133	.2	
1,2-Dichloroethane-d4 (S)	%						89	87	72-127		
4-Bromofluorobenzene (S)	%						90	90	79-121		
Dibromofluoromethane (S)	%						101	100	81-119		
Toluene-d8 (S)	%						100	99	77-120		

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2513151

QC Batch:	MSV/7510	Analysis Method:	NWTPH-Gx
QC Batch Method:	NWTPH-Gx	Analysis Description:	NWTPH-Gx MSV Water
Associated Lab Samples:	2513151001, 2513151004, 2513151005		

METHOD BLANK: 125702 Matrix: Water

Associated Lab Samples: 2513151001, 2513151004, 2513151005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	08/02/12 16:19	
4-Bromofluorobenzene (S)	%	104	50-150	08/02/12 16:19	

LABORATORY CONTROL SAMPLE: 125703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	434	87	65-139	
4-Bromofluorobenzene (S)	%			100	50-150	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2513151

QC Batch: MSV/7526

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPH-Gx

Analysis Description: NWTPH-Gx MSV Water

Associated Lab Samples: 2513151002, 2513151007, 2513151012

METHOD BLANK: 125862

Matrix: Water

Associated Lab Samples: 2513151002, 2513151007, 2513151012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	08/03/12 13:17	
4-Bromofluorobenzene (S)	%	103	50-150	08/03/12 13:17	

LABORATORY CONTROL SAMPLE & LCSD: 125863

125864

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	500	452	446	90	89	65-139	1	30	
4-Bromofluorobenzene (S)	%				98	98	50-150			

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2513151

QC Batch:	MSV/7538	Analysis Method:	NWTPH-Gx
QC Batch Method:	NWTPH-Gx	Analysis Description:	NWTPH-Gx MSV Water
Associated Lab Samples:	2513151003, 2513151006, 2513151013		

METHOD BLANK: 126100 Matrix: Water

Associated Lab Samples: 2513151003, 2513151006, 2513151013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	08/07/12 01:25	
4-Bromofluorobenzene (S)	%	99	50-150	08/07/12 01:25	

LABORATORY CONTROL SAMPLE: 126101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	549	110	65-139	
4-Bromofluorobenzene (S)	%			95	50-150	

SAMPLE DUPLICATE: 126435

Parameter	Units	2513230001 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	313	79.6	119	D6
4-Bromofluorobenzene (S)	%	92	96	5	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2513151

QC Batch: MSV/7546

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPH-Gx

Analysis Description: NWTPH-Gx MSV Water

Associated Lab Samples: 2513151014, 2513151015

METHOD BLANK: 126267

Matrix: Water

Associated Lab Samples: 2513151014, 2513151015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	08/07/12 14:50	
4-Bromofluorobenzene (S)	%	101	50-150	08/07/12 14:50	

LABORATORY CONTROL SAMPLE: 126268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	510	102	65-139	
4-Bromofluorobenzene (S)	%			95	50-150	

SAMPLE DUPLICATE: 126321

Parameter	Units	2513196002 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	161	176	9	
4-Bromofluorobenzene (S)	%	93	91	2	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2513151

QC Batch: MSV/7588

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPH-Gx

Analysis Description: NWTPH-Gx MSV Water

Associated Lab Samples: 2513151008, 2513151009, 2513151011

METHOD BLANK: 127106

Matrix: Water

Associated Lab Samples: 2513151008, 2513151009, 2513151011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	08/14/12 18:14	
4-Bromofluorobenzene (S)	%	97	50-150	08/14/12 18:14	

LABORATORY CONTROL SAMPLE & LCSD: 127107

127108

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	500	488	507	98	101	65-139	4	30	
4-Bromofluorobenzene (S)	%				93	91	50-150			

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2513151

QC Batch:	OEXT/5926	Analysis Method:	NWTPH-Dx
QC Batch Method:	EPA 3510 Modified	Analysis Description:	NWTPH-Dx GCS LVI SG
Associated Lab Samples:	2513151001, 2513151002, 2513151003, 2513151004, 2513151005, 2513151006, 2513151007, 2513151008, 2513151009, 2513151011, 2513151012, 2513151013, 2513151014, 2513151015		

METHOD BLANK: 126357 Matrix: Water

Associated Lab Samples: 2513151001, 2513151002, 2513151003, 2513151004, 2513151005, 2513151006, 2513151007, 2513151008, 2513151009, 2513151011, 2513151012, 2513151013, 2513151014, 2513151015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range SG	ug/L	ND	160	08/10/12 01:32	
Motor Oil Range SG	ug/L	ND	500	08/10/12 01:32	
n-Octacosane (S) SG	%	88	50-150	08/10/12 01:32	
o-Terphenyl (S) SG	%	84	50-150	08/10/12 01:32	

LABORATORY CONTROL SAMPLE: 126358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	ug/L	8000	7140	89	59-114	
Motor Oil Range SG	ug/L	8000	8410	105	69-124	
n-Octacosane (S) SG	%			99	50-150	
o-Terphenyl (S) SG	%			95	50-150	

SAMPLE DUPLICATE: 126359

Parameter	Units	2513151008 Result	Dup Result	RPD	Qualifiers
Diesel Range SG	ug/L	ND	ND		
Motor Oil Range SG	ug/L	ND	ND		
n-Octacosane (S) SG	%	104	104	8	
o-Terphenyl (S) SG	%	99	95	12	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2513151

QC Batch:	WET/3846	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples:	2513151002, 2513151007, 2513151011, 2513151013		

METHOD BLANK:	125593	Matrix:	Water
Associated Lab Samples:	2513151002, 2513151007, 2513151011, 2513151013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	ug/L	ND	1000	08/02/12 12:15	

LABORATORY CONTROL SAMPLE: 125594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	ug/L	100000	106000	106	90-110	

SAMPLE DUPLICATE: 125595

Parameter	Units	2513147002 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	ug/L	260 mg/L	264000	2	

SAMPLE DUPLICATE: 125596

Parameter	Units	2513147003 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	ug/L	303 mg/L	303000	0	

QUALITY CONTROL DATA

Project: 2611255

Pace Project No.: 2513151

QC Batch:	WETA/2713	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	2513151002, 2513151007, 2513151011, 2513151013		

METHOD BLANK:	125796	Matrix:	Water
Associated Lab Samples:	2513151002, 2513151007, 2513151011, 2513151013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	1000	08/03/12 13:40	

LABORATORY CONTROL SAMPLE: 125797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	15000	14200	95	90-110	

MATRIX SPIKE SAMPLE: 125798

Parameter	Units	2513151002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	25200	30000	57300	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 125799 125800

Parameter	Units	2513147003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	21.9 mg/L	150000	150000	163000	165000	94	95	90-110	.7	

QUALIFIERS

Project: 2611255

Pace Project No.: 2513151

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-S Pace Analytical Services - Seattle

BATCH QUALIFIERS

Batch: MSV/7510

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/7526

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/7588

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1n Analyte was detected in the method blank. The sample had a concentration of at least ten times greater than the blank.

B Analyte was detected in the associated method blank.

D4 Sample was diluted due to the presence of high levels of target analytes.

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

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

P8 Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2611255

Pace Project No.: 2513151

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2513151001	MW-1_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151002	MW-10_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151003	MW-11_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151004	MW-12_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151005	MW-13_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151006	MW-16_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151007	MW-17_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151008	MW-3_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151009	MW-4_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151011	MW-5_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151012	MW-6_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151013	MW-7_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151014	MW-8_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151015	MW-9_20120801	EPA 3510 Modified	OEXT/5926	NWTPH-Dx	GCSV/3756
2513151002	MW-10_20120801	EPA 3010	MPRP/3232	EPA 6010	ICP/3005
2513151007	MW-17_20120801	EPA 3010	MPRP/3232	EPA 6010	ICP/3005
2513151011	MW-5_20120801	EPA 3010	MPRP/3232	EPA 6010	ICP/3005
2513151013	MW-7_20120801	EPA 3010	MPRP/3232	EPA 6010	ICP/3005
2513151001	MW-1_20120801	EPA 5030B/8260	MSV/7509		
2513151002	MW-10_20120801	EPA 5030B/8260	MSV/7509		
2513151003	MW-11_20120801	EPA 5030B/8260	MSV/7509		
2513151004	MW-12_20120801	EPA 5030B/8260	MSV/7509		
2513151005	MW-13_20120801	EPA 5030B/8260	MSV/7509		
2513151006	MW-16_20120801	EPA 5030B/8260	MSV/7537		
2513151007	MW-17_20120801	EPA 5030B/8260	MSV/7509		
2513151008	MW-3_20120801	EPA 5030B/8260	MSV/7537		
2513151009	MW-4_20120801	EPA 5030B/8260	MSV/7509		
2513151011	MW-5_20120801	EPA 5030B/8260	MSV/7509		
2513151012	MW-6_20120801	EPA 5030B/8260	MSV/7509		
2513151013	MW-7_20120801	EPA 5030B/8260	MSV/7537		
2513151014	MW-8_20120801	EPA 5030B/8260	MSV/7537		
2513151015	MW-9_20120801	EPA 5030B/8260	MSV/7537		
2513151001	MW-1_20120801	NWTPH-Gx	MSV/7510		
2513151002	MW-10_20120801	NWTPH-Gx	MSV/7526		
2513151003	MW-11_20120801	NWTPH-Gx	MSV/7538		
2513151004	MW-12_20120801	NWTPH-Gx	MSV/7510		
2513151005	MW-13_20120801	NWTPH-Gx	MSV/7510		
2513151006	MW-16_20120801	NWTPH-Gx	MSV/7538		
2513151007	MW-17_20120801	NWTPH-Gx	MSV/7526		
2513151008	MW-3_20120801	NWTPH-Gx	MSV/7588		
2513151009	MW-4_20120801	NWTPH-Gx	MSV/7588		
2513151011	MW-5_20120801	NWTPH-Gx	MSV/7588		

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2611255

Pace Project No.: 2513151

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2513151012	MW-6_20120801	NWTPH-Gx	MSV/7526		
2513151013	MW-7_20120801	NWTPH-Gx	MSV/7538		
2513151014	MW-8_20120801	NWTPH-Gx	MSV/7546		
2513151015	MW-9_20120801	NWTPH-Gx	MSV/7546		
2513151002	MW-10_20120801	SM 2320B	WET/3846		
2513151007	MW-17_20120801	SM 2320B	WET/3846		
2513151011	MW-5_20120801	SM 2320B	WET/3846		
2513151013	MW-7_20120801	SM 2320B	WET/3846		
2513151002	MW-10_20120801	EPA 300.0	WETA/2713		
2513151007	MW-17_20120801	EPA 300.0	WETA/2713		
2513151011	MW-5_20120801	EPA 300.0	WETA/2713		
2513151013	MW-7_20120801	EPA 300.0	WETA/2713		

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com



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ANALYSIS REPORT

Pace Analytical Seattle
940 South Harney
Seattle, WA 98108
Attention: Karen Jang
Project Name: 2611255
Project #: 2513151
PO Number: 25SUB-0838
All results reported on an as received basis.

Date Received: 08/03/12
Date Reported: 8/13/12

AMTEST Identification Number 12-A011702
Client Identification MW-10_20120801 2513151002
Sampling Date 08/01/12, 12:00

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate + Nitrite	< 0.02	mg/l		0.02	EPA 353.2	SS	08/13/12

AMTEST Identification Number 12-A011703
Client Identification MW-17_20120801 2513151007
Sampling Date 08/01/12, 12:40

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate + Nitrite	< 0.02	mg/l		0.02	EPA 353.2	SS	08/13/12

AMTEST Identification Number 12-A011704
Client Identification MW-5_20120801 2513151011
Sampling Date 08/01/12, 09:20

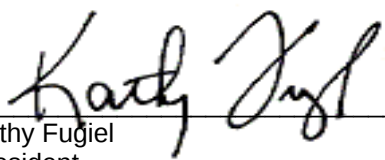
Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate + Nitrite	10.	mg/l		0.02	EPA 353.2	SS	08/13/12

AMTEST Identification Number 12-A011705
Client Identification MW-7_20120801 2513151013
Sampling Date 08/01/12, 10:40

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate + Nitrite	0.23	mg/l		0.02	EPA 353.2	SS	08/13/12


Kathy Fugiel
President

QC Summary for sample numbers: 12-A011702 to 12-A011705

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
12-A011493	Nitrate + Nitrite	mg/l	< 0.02	< 0.02	
12-A011786	Nitrate + Nitrite	mg/l	0.050	0.038	27.
12-A011800	Nitrate + Nitrite	mg/l	0.057	0.055	3.6
12-A011931	Nitrate + Nitrite	mg/l	1.8	1.8	0.00

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
12-A011493	Nitrate + Nitrite	mg/l	< 0.02	0.49	0.50	98.00 %
12-A011786	Nitrate + Nitrite	mg/l	0.050	0.54	0.50	98.00 %
12-A011800	Nitrate + Nitrite	mg/l	0.057	0.56	0.50	100.60 %
12-A011931	Nitrate + Nitrite	mg/l	1.8	4.5	2.5	108.00 %

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Nitrate + Nitrite	mg/l	0.50	0.50	100. %
Nitrate + Nitrite	mg/l	0.50	0.50	100. %
Nitrate + Nitrite	mg/l	0.50	0.51	102. %
Nitrate + Nitrite	mg/l	0.50	0.52	104. %

BLANKS

ANALYTE	UNITS	RESULT
Nitrate + Nitrite	mg/l	< 0.02
Nitrate + Nitrite	mg/l	< 0.02
Nitrate + Nitrite	mg/l	< 0.02
Nitrate + Nitrite	mg/l	< 0.02

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

25 1 3 1 5 1



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Required Lab Information:				Required Project Information:				Required Invoice Information:				Additional Information:			
Lab Name:		Pace-Seattle		Site ID #:		2611255		Task:		WG_S_201208		Send Invoice to:		For Records Bryan Taylor	
Address:				Delta project #				Address:		4006 148th Ave NE		Turn around time (days)		10	
940 S Harney Drive Seattle WA				Site Address		19924 INTERNATIONAL BLVD				City/State		Redmond WA		Phone #:	
Lab PM:		Regina Ste Marie		City		SEATAC		State		WA		Reimbursement project?		Non-reimbursement project?	
Phone/Fax:		P: 206-957-2427 F:		Delta PM Name		Bryan Taylor				Send EDD to		copeltdata@intelligentehs.com			
Lab PM email				Phone/Fax:		P: 425-882-3528 F:				CC Hardcopy report to		bryan.taylor@anteagroup.com			
Applicable Lab Quote #:				Delta PM Email:		bryan.taylor@anteagroup.com				CC Hardcopy report to					
												Mark one			
												NJ Reduced Deliverable Package?			
												MA MCP Cert?			
												CT RCP Cert?			
												Lab Project ID (lab use)			
												Requested			

[illegible]

Additional Comments/Special Instructions:	RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	Sample Receipt Conditions						
		Justin Miller	8-1-12	2:07pm			8/1/12	1407	5.1	Y/N	Y/N	Y/N			
									4.8	Y/N	Y/N	Y/N			
										Y/N	Y/N	Y/N			
										Y/N	Y/N	Y/N			
SHIPPING METHOD: (mark as appropriate)		SAMPLER NAME AND SIGNATURE													
UPS COURIER FEDEX		PRINT Name of SAMPLER:		Justin Miller											
US MAIL		SIGNATURE of SAMPLER:				DATE Signed		8-1-12	Time:		14:07	Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?



COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2
Cooler # of

2513151



Required Lab Information:

Lab Name: Pace-Seattle

Address:

940 S Harney Drive Seattle WA

Lab PM: Regina Ste Marie

Phone/Fax: P: 206-957-2427 F:

Lab PM email

Applicable Lab Quote #:

Required Project Information:

Site ID #:

2611255

Task:

WG_S_201208

Delta project #

Site Address

19924 INTERNATIONAL BLVD

City

SEATAC

State

WA

Delta PM Name

Bryan Taylor

Phone/Fax:

P: 425-882-3528 F:

Delta PM Email:

bryan.taylor@anteagroup.com

Required Invoice Information:

Send Invoice to:

Bryan Taylor

Address:

4006 148th Ave NE

City/State

Redmond WA

Phone #:

Reimbursement project?

Non-reimbursement project?

Y

Mark one

Send EDD to

copeltdata@intelligentehs.com

CC Hardcopy report to

bryan.taylor@anteagroup.com

CC Hardcopy report to

Turn around time (days)

10

QC level Required: Standard

Y

Special

Mark one

NJ Reduced Deliverable Package?

MA MCP Cert?

CT RCP Cert?

Mark One

Lab Project ID (lab use)

Requested Analyses

300S-Jetrate
310M-Malinity Total
353N-Nitrogen Total
6010I-Iron Total
6010I-Iron Total
6010M-Manganese Total
8221B-TEX
NITPH-DX-W/1000G
NITPH-GX

Comments/Lab Sample I.D.

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives										Analyses										Comments/Lab Sample I.D.
		MATRIX								Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	300Sulfate	310MAlkalinity Total	353NAmmonia Total	6010Iron Total	6010Iron Total	6010Manganese Total	8021BTEX	NITPHOX w/1000Gpp	NITPHGX				
		DRINKING WATER GROUND WATER WASTE WATER FREE PRODUCT SOIL OIL WASTE AMBIENT AIR SVE AIR SOIL GAS	WATER SURFACE WATER WATER GC SLUDGE RINSEATE OTHER ANIMAL TISSUE																								W WS WG SL WH OT TA			
1	MW-5_20120801	WG	G	8-1-12	920	7															X	X	X	X	X	X	X	X	X	
2	MW-6_20120801	WG	↓	↓	1300	4																					X	X	X	
3	MW-7_20120801	WG	↓	↓	1040	7															X	X	X	X	X	X	X	X	X	
4	MW-8_20120801	WG	↓	↓	1120	4																					X	X	X	
5	MW-9_20120801	WG	↓	↓	1320	4																					X	X	X	
6	TB2_20120801	W			630	4																								
7																														
8																														
9																														
10																														
11																														
12																														

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

Sample Receipt Conditions

Justin Miller Antea

8-1-12 207

Justin Miller

8-1-12

1407

5.1 Y/N Y/N Y/N

4.8 Y/N Y/N Y/N

Y/N Y/N Y/N

Y/N Y/N Y/N

SHIPPING METHOD: (mark as appropriate)

SAMPLER NAME AND SIGNATURE

UPS COURIER FEDEX

PRINT Name of SAMPLER:

Justin Miller

US MAIL

SIGNATURE of SAMPLER:

Justin Miller

DATE Signed

8-1-12

Time: 1407

Temp in °C

Samples on Ice?

Sample intact?

Trip Blank?

Sample Container Count

25 1 3 15 1



CLIENT: Cop Artec

COC PAGE 1 of 2

COC ID# _____

Trip Blank(s) Provided?

Y N

Sample Line Item	VG9H	AG1H	AG1U	BP1U	BP2U	BP3U	BP3N	BP3S	WGKU	WGFU	WG2U	DG9M	DG9B	VG9W	VSG	ΔG4H	Comments
1	3			1.0/1.2			1.0	1.0								1.0	
2	↓															↓	
3																	
4																	
5	↓															↓	
6																	
7																	
8	3						1.0	1.0								1.0	
9	↓			1												↓	
10	6															3 1.0	
11	3															1.0	
12	4																

AG1H	1 liter HCL amber glass	BP2S	500mL H2SO4 plastic	JGFU	4 oz amber glass soil jar
AG1U	1liter unpreserved amber glass	BP2U	500mL unpreserved plastic	WGKU	8 oz clear glass soil jar
AG2S	500mL H2SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	WGFU	4 oz clear glass soil jar
AG2U	500mL unpreserved amber glass	BP3C	250mL NaOH plastic	WG2U	2 oz clear glass soil jar
AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	JGFM	4 oz amber glass soil jar with MeOH
BG1H	1 liter HCL clear glass	BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass	BP3U	250mL unpreserved plastic	VG9W	40mL clear vial pre-weighted with DI water
BP1N	1 liter HNO3 plastic	DG9B	40mL Na Bisulfate clear vial	VSG	Headspace septa vial
BP1S	1 liter H2SO4 plastic	DG9H	40mL HCL amber voa vial	VG9H	40mL HCL clear vial
BP1U	1 liter unpreserved plastic	DG9M	40mL MeOH clear vial	WGFU	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac	DG9T	40mL Na Thio amber vial	VG9T	40mL Na Thio. clear vial
BP2N	500mL HNO3 plastic	DG9U	40mL unpreserved amber vial	ZPLC	Ziploc Bag
BP2O	500mL NaOH plastic	I	Wipe/Swab	U	Summa Can

Sample Container Count



CLIENT: CoP Antea

COC PAGE 2 of 2

COC ID# _____

25 13 15 1

Trip Blank(s) Provided?

Y N

Sample Line Item	VG9H	AG1H	AG1U	BP1U	BP2U	BP3U	BP3N	BP3S	WGKU	WGFU	WG2U	DG9M	DG9B	VG9W	VSG	AG4H	Comments
1	3			1			1.0	1.0								1.0	
2	↓																
3				1			1.0	1.0									
4	↓																
5	↓																
6	4																
7																	
8																	
9																	
10																	
11																	
12																	

AG1H	1 liter HCL amber glass	BP2S	500mL H2SO4 plastic	JGFU	4 oz amber glass soil jar
AG1U	1liter unpreserved amber glass	BP2U	500mL unpreserved plastic	WGKU	8 oz clear glass soil jar
AG2S	500mL H2SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	WGFU	4 oz clear glass soil jar
AG2U	500mL unpreserved amber glass	BP3C	250mL NaOH plastic	WG2U	2 oz clear glass soil jar
AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	JGFM	4 oz amber glass soil jar with MeOH
BG1H	1 liter HCL clear glass	BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass	BP3U	250mL unpreserved plastic	VG9W	40mL clear vial pre-weighted with DI water
BP1N	1 liter HNO3 plastic	DG9B	40mL Na Bisulfate clear vial	VSG	Headspace septa vial
BP1S	1 liter H2SO4 plastic	DG9H	40mL HCL amber voa vial	VG9H	40mL HCL clear vial
BP1U	1 liter unpreserved plastic	DG9M	40mL MeOH clear vial	WGFU	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac	DG9T	40mL Na Thio amber vial	VG9T	40mL Na Thio. clear vial
BP2N	500mL HNO3 plastic	DG9U	40mL unpreserved amber vial	ZPLC	Ziploc Bag
BP2O	500mL NaOH plastic	I	Wipe/Swab	U	Summa Can

Sample Condition Upon Receipt

25 1 3 15 1

Pace Analytical

Client Name: COP Antea

Project # _____

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ NoPacking Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____ Temp. Blank Yes _____ No _____Thermometer Used 132013 or 101731962 or 226099 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begunCooler Temperature 5.1, 4.8

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/1/12 KWSTemp should be above freezing $\leq 6^{\circ}\text{C}$

Comments:

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Follow Up / Hold Analysis Requested:	☐ Yes ☒ No ☐ N/A	8.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	9.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	10.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	11.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	12.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>		
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	
Exceptions: <u>VOA</u> , coliform, TOC, O&G	☒ Yes ☐ No ☐ N/A	Initial when completed <u>KWS</u> Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☒ No ☐ N/A	15.
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	16.
Trip Blanks Present:	☒ Yes ☐ No ☐ N/A	17.
Trip Blank Custody Seals Present	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Creation Date:		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

Karen JangDate: 08/01/12

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



Sample Condition Upon Receipt

2510814

Client Name: Antea

Project # _____

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ NoPacking Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____Temp. Blank ☒ Yes ☐ No

Thermometer Used

132013 or 101731962 or 226099

Type of Ice: ☒ Wet☐ Blue ☐ None☒ Samples on ice, cooling process has begun

Cooler Temperature

3.8, 6.3, 7.2

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: ND 020912Temp should be above freezing $\leq 6^{\circ}\text{C}$

Comments:

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>Nitrate</u>
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Follow Up / Hold Analysis Requested:	☐ Yes ☒ No ☐ N/A	8.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	9.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	10.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	11.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	12.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	13. <u>received total 4 vials for trip blanks.</u>
-Includes date/time/ID/Analysis Matrix:	<u>Water</u>	
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	
Exceptions <u>VOA</u> coliform, TOC, O&G	☒ Yes ☐ No ☐ N/A	Initial when completed _____ Lot # of added preservative _____
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	15.
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	16.
Trip Blanks Present:	☒ Yes ☐ No ☐ N/A	17.
Trip Blank Custody Seals Present	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Creation Date:	<u>020212</u>	

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

JENNI GROSSDate: 2/10/12

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



FIELD ACTIVITY LOG

1 of 6

BEGINNING ODOMETER:		DATE: 2/09/12	
ENDING ODOMETER:		PROJECT NUMBER: 261255	
FIELD ACTIVITY SUBJECT: GWS		RECORDED BY: MSM	REVIEWED BY:
TIME	DESCRIPTION OF ACTIVITIES AND EVENTS	SKETCH:	
0730	Load equipment & get gas for Van		
0840	Antea arrive onsite		
0845	Review & sign HASP		
0850	Check in w/ MOD		
0858	Begin gauging wells		
0935	Begin Sampling wells		
	→ Slow! Pump rate due to depth of water @ maximum pump capacity		
1300	Lunch		
1330	Finish sampling MNA wells		
1340	Demobe Gear		
1400	offsite		
* 2/10/12 *			
0745	Depart for site to complete sampling of MW-1, 11, 12, 4 & 5		
0845	Check in w/ MOD Review & sign HASP		
0900	Begin sampling		
1000	Sampling complete		
1025	Complete Drum Inventory		
1030	Check out & Depart for Lab.		
WEATHER CONDITIONS: 50 + Rain		CHANGES IN PLANS, SPECS., NEW ISSUES, FOLLOW UP NEEDED	
AMBIENT AIR MONITORING:			
VISITORS ONSITE:			
ANTEA GROUP PERSONNEL ONSITE: MSM / DR			
		TELEPHONE CALLS:	



CLIENT: _____

PAGE 2 of 6

DATE: 2/09/12

WEATHER: Rain

System Instructions:	Remedial System On-Site (Y / N) ?	Comments:
	Operational Upon Arrival (Y / N) ?	Comments:
	Shut Down System 1 / 24 hours before gauging (Y / N) ?	Time/Date Downed:
	Re-Start System (Y / N) ?	Time/Date Restarted:
	Purge Method:	Comments:

Facility/Location:

Solinst Interface Probe



GROUNDWATER SAMPLING FIELD SHEET

Additional Parameters

PROJECT NUMBER: 2611255
 SITE No./JOB No.: _____
 SITE ADDRESS/LOCATION: _____
 FIELD PERSONNEL: MJM / DR

CLIENT: _____
 PAGE: 3 of 6
 DATE: 2/09/12
 WEATHER: Rain

Additional Field Parameters: (Pre-Purge / Post-Purge / Low-flow Cell)								
Well ID	Temp. (°C / °F)	Conduc- tivity (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP (mV)	Ferrous Sulfate Iron (mg/L)	Comments
MW-13	12.97	0.304	0.256	1.78	5.84	328		MW-13 @ 0945
	13.40	0.305	0.255	1.59	5.38	36.5		pH is rising & falling
	13.69	0.311	0.258	1.26	9.33	43.1		stop Pumping to clean.
	13.74	0.309	0.256	1.28	7.93	42.9		
MW-7	13.20	0.324	0.272	1.79	7.57	35.3		MW-7 @ 1050
	13.56	0.327	0.272	0.90	N/A	39.1		
	13.56	0.327	0.272	0.87	N/A	39.1	1.6	
MW-10	13.28	0.353	0.295	2.20	N/A	36.4		MW-10 @ 1115
	13.42	0.353	0.295	1.09		38.7	2.4	
	13.43	0.354	0.295	1.01		39.1		
MW-8							1.0	@ 1200
MW-16	12.22	0.249	0.214	1.33	N/A	34.4	4.1	@ 1145
	12.23	0.246	0.211	1.02		37.8		
	12.23	0.245	0.211	0.99		38.7		
MW-9	13.33	0.323	0.270	1.19	N/A	43.3		MW-9 @ 1355
	13.61	0.326	0.271	1.11		43.7		
	13.81	0.327	0.270	1.03		44.1		
	13.89	0.326	0.269	0.98		44.2	3.9	
MW-6	12.78	0.238	0.202	1.17	N/A	45.1	0.8	MW-6 @ 1515
MW-17	13.37	0.270	0.226	1.79		42.7		MW-17 @ 1440
MW-3	12.78	0.281	0.238	1.81		41.1		MW-3 @ 1530
	13.11	0.284	0.239	1.20	N/A	41.1		
	13.21	0.284	0.239	1.06	5.84	41.9		

Measuring Device(s):

YSI

Additional Comments:



CLIENT:

PAGE

DATE:

WEATHER:

Measuring Device(s): VST-556

Additional Comments:

\\Deltaseattle\\belred drive\\Antea Group\\Field Notes\\Original Form Spreadsheet\\Field Activity Log



GROUNDWATER SAMPLING FIELD SHEET

Additional Parameters

PROJECT NUMBER: 2611255

SITE No./JOB No.: _____

SITE ADDRESS/LOCATION: _____

FIELD PERSONNEL: dm

CLIENT: _____

PAGE _____

of _____

DATE: 8-1-12

WEATHER: 65° + Clouds

Additional Field Parameters: (Pre-Purge / Post-Purge / Low-flow Cell)								
Well ID	Temp. (°C / °F)	Conduc tivity (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments
mw 5	13.3	0.305	.20	7.14	6.24	206		@ 920 Fe 1.5
	13.3	0.315	.21	7.16	6.21	206		
	13.3	0.336	.21	7.15	6.19	207		
mw 3	15.8	.887	.30	.63	6.45	174		@ 940 QC
	15.7	.825	.55	.53	6.46	175		
	15.5	.847	.59	.56	6.47	175		
mw 12	14.9	.999	.3	.93	6.45	176		@ 1000
	14.8	.999	.3	.96	6.41	175		
	14.7	.999	.3	.96	6.42	175		
mw 13	14.7	.999	1.36	0.00	6.35	175		@ 1020
	14.7	.999	1.31	0.00	6.36	169		
	14.7	.999	1.36	0.00	6.32	170		
mw 7	15.8	.999	1.42	0.00	6.71	-57		@ 1040 Fe 2.0
	15.8	.999	1.66	0.00	6.68	-60		
	15.9	.999	1.64	0.00	6.73	-62		
mw 11	15.5	.990	0.32	0.02	6.71	-39		@ 1100
mw 8	15.3	.421	0.27	1.62	6.60	-55		@ 1120
mw 16	14.7	.526	0.34	1.95	6.77	-71		@ 1140
mw 10	15.7	.999	2.13	0.00	6.60	-87		@ 1200 Fe 2.2
	15.7	.999	2.33	0.00	6.66	-91		
	15.7	.999	2.44	0.00	6.67	-92		
mw 4	15.8	.288	.19	6.43	6.57	11		@ 1220

Measuring Device(s): Horiba

Additional Comments:



CLIENT: _____

PAGE of

DATE: 8-1-12

WEATHER: 75° + Sun

\\Deltaseattle\\belred drive\\Antea Group\\Field Notes\\Original Form Spreadsheet - READ ONLY\\GW Sampling Field Sheet



CLIENT: COP/ELT

PAGE of

DATE: 7/31/12

WEATHER: Sunny 68°F

System Instructions:	Remedial System On-Site (Y / N) ?	Comments:
	Operational Upon Arrival (Y / N) ?	Comments:
	Shut Down System 1 / 24 hours before gauging (Y / N) ?	Time/Date Downed:
	Re-Start System (Y / N) ?	Time/Date Restarted:
	Purge Method: Low Flow	Comments:

Facility/Location:

\\Deltaseattle\\belred drive\\Antea Group\\Field Notes\\Original Form Spreadsheet\\GW Sampling Field Sheet