Braun Intertec Corporation
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March 6, 2018 Project No. LC-13-01254.00

Ms. Mae Willkom
Wisconsin Department of Natural Resources
1300 W Clairemont Avenue
Eau Claire, WI 54701

Re: 2017 Annual Groundwater Monitoring Summary Report
Onalaska Municipal Landfill Superfund Site
Sportsman Club Road
Town of Onalaska, La Crosse County, Wisconsin

Dear Ms. Willkom:

Braun Intertec Corporation (Braun Intertec) is submitting this Annual Groundwater Monitoring Summary Report for the Onalaska Municipal Landfill Superfund Site located on Sportsman Club Road in the Town of Onalaska, La Crosse County, Wisconsin. The attached report outlines the groundwater monitoring activities in October 2016.

Please call John Wyciskalla or Mark Gretebeck at 608.781.7277 if you have questions concerning this project.

Sincerely,

BRAUN INTERTEC CORPORATION

John Wyciskalla, PG
Associate Principal/Senior Scientist

Mark L. Gretebeck
Principal

Attachment:
2017 Annual Groundwater Monitoring Summary Report c:

Demaree Collier, U.S. EPA

Table of Contents

Figures

Tables

Appendices

A. Introduction

Braun Intertec has completed additional groundwater monitoring activities for the Onalaska Municipal Landfill Superfund Site (the Site) located on Sportsman Club Road in the Town of Onalaska, La Crosse County, Wisconsin. The purpose of the additional groundwater monitoring activities was to conduct routine semi-annual groundwater sampling. Refer to the following sections for a detailed discussion of the methods, procedures and conclusions of the monitoring activities.

A.1. Site Location and Description

The Site is located approximately 10 miles north of the City of La Crosse near the confluence of the Mississippi and Black Rivers in the Town of Onalaska (Brice Prairie), Wisconsin. The Site building is accessible at the end of Sportsman Club Road. The 11-acre site was mined as a sand and gravel quarry in the early 1960s. In the mid-1960s, all mining ceased and the Town of Onalaska began to use the quarry as a municipal landfill. Between 1969 and 1980, both municipal trash and industrial wastes were disposed in the landfill. The landfill was closed in 1980.

The Site is in the SE 1/4 of Section 9, Township 17 North, Range 8 West. A Site Location Map is included as Figure 1. A Site Plan is also included as Figure 2.

B. Field Investigation Methods

The tasks performed during the additional site investigation were completed in accordance with the Braun Intertec Proposal dated August 31, 2015 and Quality Assurance/Quality Control (QA/QC) technical memo dated May 13, 2013.

B.1. Water Level Measurements

Groundwater level measurements were collected from all monitoring wells as depicted on the Site Maps on April 18, 2017. Groundwater elevations were obtained from each monitoring well prior to purging, in accordance with s. NR 140.16, Wis. Adm. Code and Wisconsin Department of Natural Resources (WDNR) guidance.

B.2. Stabilization and Groundwater Sampling

Each monitoring point was properly purged before sampling in accordance with s. NR 140.16, Wis. Adm. Code. Monitoring well purge water was discharged to the ground per the WDNR. Dedicated whale

pumps and tubing were used to purge each monitoring point except for monitoring points AW-13 and AW-28. There was insufficient water present within the screened interval in these wells to allow the pump to function properly. These wells were sampled via a disposable polyethylene bailer. Field parameters (dissolved oxygen, oxidation reduction potential (ORP), specific conductance, temperature, and pH) were measured using a multi-meter with a flow-through cell at monitoring wells from which lab samples were collected with a pump. One field event was conducted during the 2017 calendar year. A sampling event was conducted on April 18-21, 2017. Groundwater samples were collected from the monitoring wells specified for the parameters listed in Attachment A. Samples for metals analysis were field filtered. The groundwater samples were analyzed by Pace Analytical laboratory in Green Bay, WI. Complete laboratory reports and accompanying chain-of-custody forms for the groundwater sampling event is contained in Appendix B.

B.3. Private Supply Well Sampling

During the April sampling event, water samples were collected from the private supply wells of four nearby residences Berkich (former Johnson), Marshall (former Miller), Elvin (former Pretasky) and Ackerman). The Elvin and Marshall samples were collected from the new wells installed in June 2013. Each sample was collected from an outside tap (before any household treatment system) after purging for a minimum of ten minutes. Samples were analyzed for volatile organic compounds (VOCs) and metals (arsenic, barium, iron, lead, manganese, cadmium, cobalt, mercury and vanadium) by Pace Analytical. Complete laboratory reports and accompanying chain-of-custody forms are contained in Appendix B.

C. Results

C.1. Water Levels

C.1.a. April Monitoring Event

During the April 2017 sampling event, groundwater was encountered approximately 2 to 27 feet below ground surface (bgs). The groundwater elevation data is summarized in Table 2. A groundwater elevation contour map based on interpolation of groundwater elevations at monitoring locations with an “S” and “PZ” is included as Figures 3 and 4. Please note monitoring wells MW-14S, PZ-2, and PZ-3 were omitted when constructing the contour map. The resulting groundwater elevation from these points appear to be an anomaly due to varying elevations of the Black River.

Wells with an "M" suffix were used to contour the mid-depth potentiometric surface and is included as Figure 4. The resulting groundwater flow direction for both the water table and mid-depth wells was south/southwest during the April 2016 sampling event.

C.2. Groundwater Sampling

Several organic and inorganic compounds were detected at concentrations above the preventative action limit (PAL) or the NR 140 enforcement standard (ES). The following sections provide a summary of the exceedances observed during each water sampling event.

Groundwater sampling analytical results and field parameters are summarized in Table 1. In additional to the printed groundwater monitoring reports attached to this report, analytical data has been reported electronically to the WDNR GEMS database in accordance with WDNR guidance.

C.2.a. April Monitoring Event

Laboratory analytical results indicated dissolved manganese concentrations above the PAL and ES at each monitoring point sampled except for MW-1SR and MW-12S. The dissolved manganese concentration at MW-8S and MW-16S were below the ES, but above the PAL. Groundwater manganese isoconcentration maps for the shallow and mid-depth wells are included as Figure 5 and 6, respectively.

Dissolved arsenic was detected at concentrations above the PAL at monitoring points AW-28, MW9M, MW-11M, PZ-4 and PZ-5 and above the ES at monitoring points MW-2S, MW-2M, MW-5S, MW-16M, MW-17S, and MW-17M. Groundwater arsenic isoconcentration maps for the shallow and mid-depth wells are included as Figure 7 and 8, respectively.

Dissolved iron concentrations exceeded the PAL and ES levels in wells AW-28, MW-2S, MW-2M, MW-4S, MW-5S, MW-6S, MW-7M, MW-8M, MW-9M, MW-11M, MW-14S, MW-15M, MW-16S, MW-16M, MW-17S, MW-17M, PZ-2, PZ-3, and PZ-5. The dissolved iron concentration at monitoring point PZ-4 was below the ES but above the PAL.

Dissolved lead was detected at a concentration above the PAL, but below the ES, at monitoring point MW-8S.

Dissolved barium was detected at a concentration above the PAL at monitoring points MW-2M, MW-6M, MW-8M, MW-15M, MW-16M and MW-17M, but below the ES.

Additionally, 1,2,4-trimethylbenzene was detected above the PAL and ES at monitoring points MW-4S and PZ-5 and above the PAL at MW-5S and MW-17S , but below the ES. Naphthalene was detected above the PAL at MW-14S.

C.3. Private Supply Well Sampling

Each of the four private supply water wells were sampled during the April 2017 sampling event.

Laboratory analytical results indicated dissolved manganese concentrations above the PAL in each of the four private supply water samples (Ackerman, Berkich, Marshall and Elvin), but below the ES.

Dissolved iron was detected in the Ackerman, Marshall and Elvin samples at concentrations above the ES.

Lead was reported in each of the four private supply water samples (Ackerman, Berkich, Marshall and Elvin) as <0.0043 ug/L, which is above the PAL of 0.0015 ug/L, but below the ES of 0.015 ug/L. The reporting limit for the analyte exceeds the PAL.

Private supply well sampling analytical results are summarized in Table 1. Paper copies of the analytical results from the private residential water supply wells (only) were submitted within 10 days of receipts of the data. These results were submitted directed to the WDNR Waste and Materials Management Program Environmental Program Associate at WDNR West Central Regional Headquarters, 1300 West Clairemont Avenue, Eau Claire, WI 54701.

D. Summary and Conclusions

A summary of the additional site investigation monitoring is as follows:

- Routine groundwater monitoring was conducted in April 2017. Several organic and inorganic compounds including: naphthalene, 1,2,4-trimethylbenzene, dissolved metals (arsenic, barium, iron, lead, and manganese) were detected at concentrations above ES or PAL from the monitoring well network.

- During the April 2017 sampling event, groundwater was encountered approximately 2 to 27 feet bgs. The resulting groundwater flow direction for both the water table and mid-depth wells was west.

E. Standard of Care

Services performed for this project have been conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in this area under similar budget and time constraints. No warranty, expressed or implied, is made.

Figures

W:\DRAFTS\LC\2013\01254 Ona Landfill\GIS\LC1301254_SiteLoc.mxd

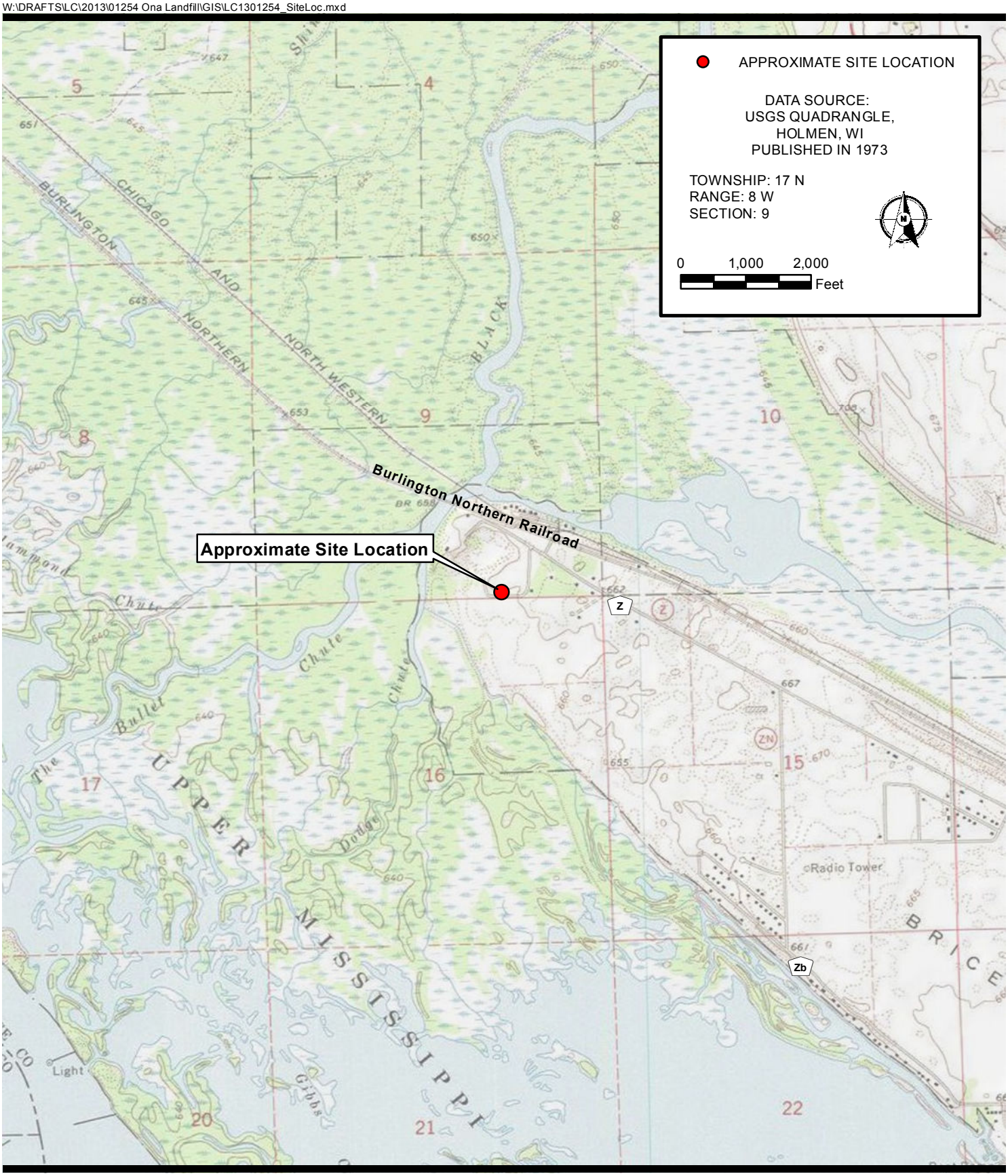

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Fig. 1

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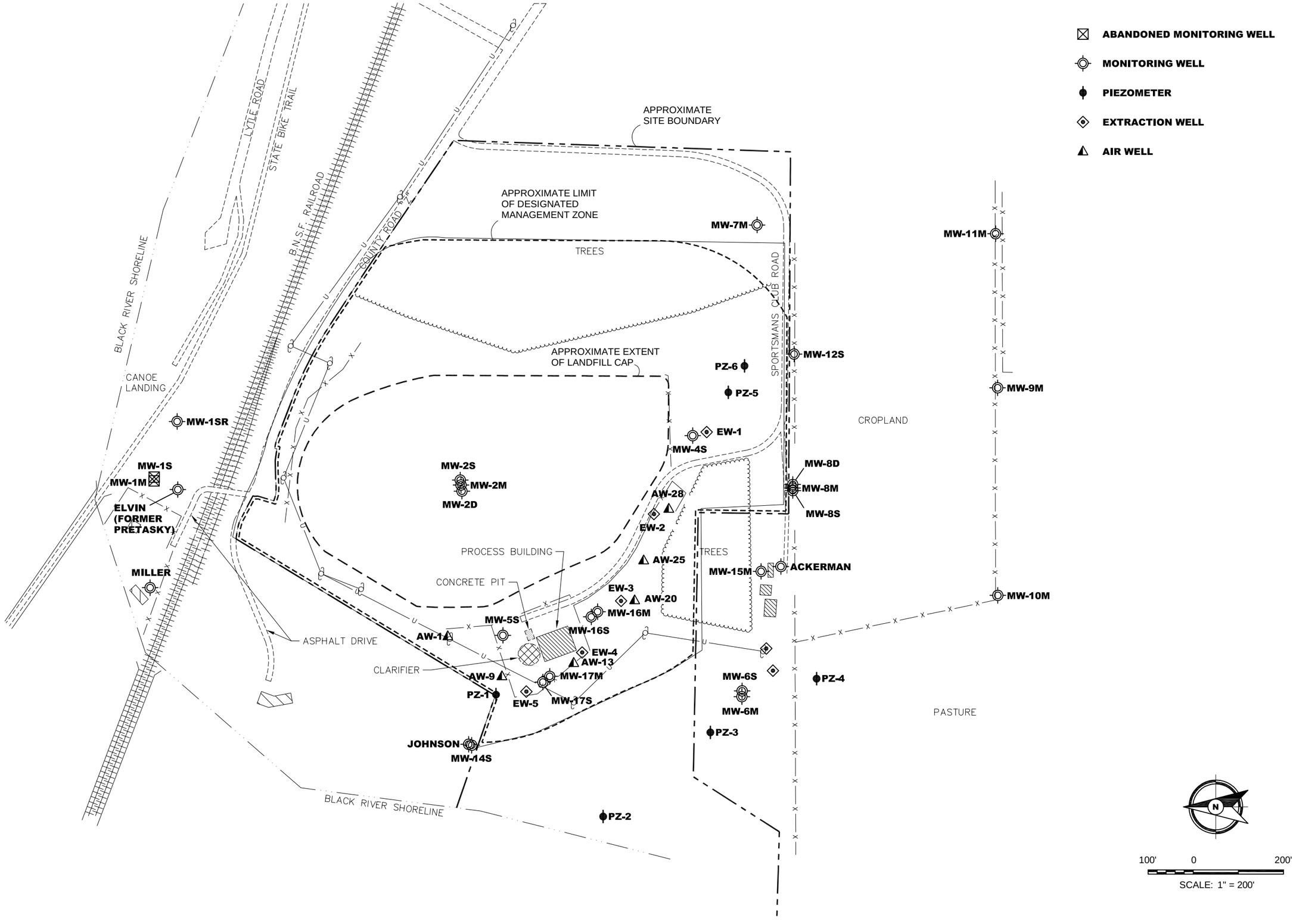
SITE LOCATION MAP

ONALASKA MUNICIPAL LANDFILL
SPORTSMAN CLUB ROAD
ONALASKA, WISCONSIN

BRAUN INTERTEC
11001 Hampshire Avenue So.
Minneapolis, MN 55438
PH. (952) 995-2000
FAX (952) 995-2020



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Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

SITE PLAN
GROUNDWATER MONITORING AND LIMITED SITE INVESTIGATION
ONALASKA MUNICIPAL LANDFILL
SPORTSMAN CLUB ROAD
ONALASKA, WISCONSIN

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(646.73) GROUNDWATER ELEVATION (FT.)

GROUNDWATER CONTOUR ELEVATION (FT.)

ABANDONED MONITORING WELL

MONITORING WELL

PIEZOMETER

EXTRACTION WELL

AIR WELL

APPROXIMATE SITE BOUNDARY

APPROXIMATE LIMIT OF DESIGNATED MANAGEMENT ZONE

APPROXIMATE EXTENT OF LANDFILL CAP

BLACK RIVER SHORELINE

LYTLE ROAD

STATE BIKE TRAIL

B.N.S.F. RAILROAD

COUNTY ROAD "Z"

SPORTSMANS CLUB ROAD

CANOE LANDING

TREES

CROPLAND

PASTURE

PROCESS BUILDING

CONCRETE PIT

ASPHALT DRIVE

CLARIFIER

646.50

646.25

646.00

645.75

MW-1SR (646.73)

MW-1S

MW-1M

ELVIN (FORMER PRETASKY)

MILLER

(646.44) MW-2S

MW-2M

MW-2D

(645.75) PZ-6

PZ-5 (645.33)

MW-12S (645.69)

EW-1

MW-4S (645.91)

MW-8D

MW-8M

MW-8S (645.66)

AW-28

EW-2

AW-25

MW-15M

ACKERMAN

EW-3

AW-20

MW-16M

MW-16S (646.00)

EW-4

AW-13

MW-17M

MW-17S (646.10)

(646.23) MW-5S

AW-12

AW-9

PZ-1 (646.18)

EW-5

JOHNSON

MW-14S

PZ-3

PZ-2

(645.77) MW-6S

MW-6M

PZ-4 (645.77)

MW-11M

MW-9M

MW-10M

100' 0 200'

SCALE: 1" = 200'

GROUNDWATER CONTOUR MAP - SHALLOW DEPTH (4/18/17)
GROUNDWATER MONITORING AND LIMITED SITE INVESTIGATION
ONALASKA MUNICIPAL LANDFILL
SPORTSMAN CLUB ROAD
ONALASKA, WISCONSIN

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Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

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(646.43) GROUNDWATER ELEVATION (FT.)

GROUNDWATER CONTOUR ELEVATION (FT.)

ABANDONED MONITORING WELL

MONITORING WELL

PIEZOMETER

EXTRACTION WELL

AIR WELL

APPROXIMATE SITE BOUNDARY

APPROXIMATE LIMIT OF DESIGNATED MANAGEMENT ZONE

APPROXIMATE EXTENT OF LANDFILL CAP

BLACK RIVER SHORELINE

LYTLE ROAD

STATE BIKE TRAIL

B.N.S.F. RAILROAD

COUNTY ROAD "Z"

SPORTSMANS CLUB ROAD

CANOE LANDING

TREES

CROPLAND

PASTURE

PROCESS BUILDING

CONCRETE PIT

ASPHALT DRIVE

CLARIFIER

ELVIN (FORMER PRETASKY)

MILLER

JOHNSON

ACKERMAN

MW-1SR

MW-1S

MW-1M

MW-2S

MW-2M (646.43)

MW-2D

MW-4S

MW-5S

MW-6S

MW-6M (645.79)

MW-7M (645.74)

MW-8D

MW-8M (645.65)

MW-8S

MW-9M (645.30)

MW-10M (645.43)

MW-11M (645.36)

MW-12S

MW-14S

MW-15M (645.68)

MW-16M (646.02)

MW-16S

MW-17M (646.21)

MW-17S

PZ-1

PZ-2

PZ-3

PZ-4

PZ-5

PZ-6

EW-1

EW-2

EW-3

EW-4

EW-5

AW-1

AW-9

AW-13

AW-20

AW-25

AW-28

645.90

646.30

646.40

646.20

646.10

646.00

645.80

645.70

645.60

645.50

645.40

100' 0 200'

SCALE: 1" = 200'

GROUNDWATER CONTOUR MAP - MID DEPTH (4/18/17)
GROUNDWATER MONITORING AND LIMITED SITE INVESTIGATION
ONALASKA MUNICIPAL LANDFILL
SPORTSMAN CLUB ROAD
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Base Dwg Provided By:
WISCONSIN DEPARMENT OF NATURAL RESOURCES

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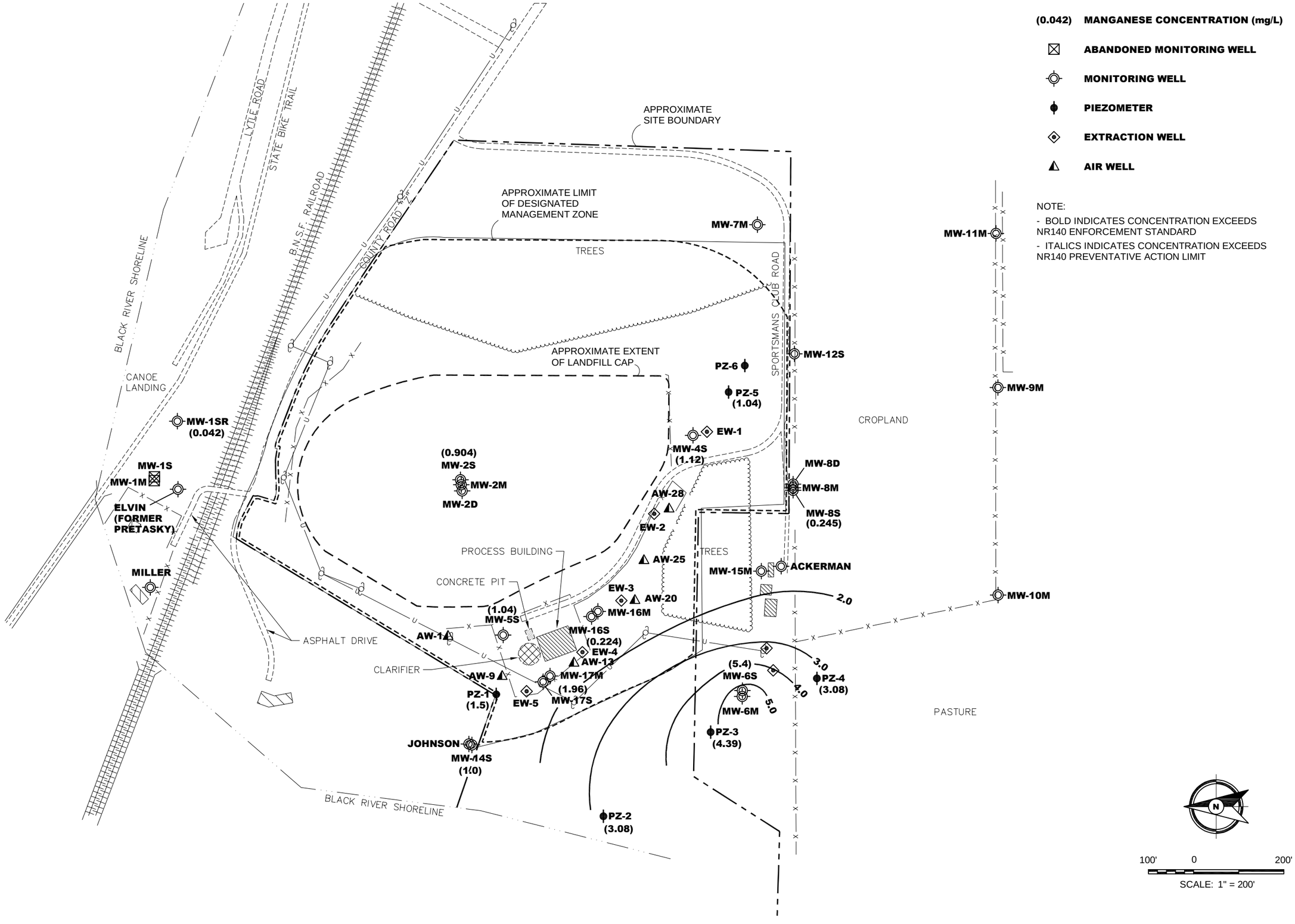

(0.042) **MANGANESE CONCENTRATION (mg/L)**

ABANDONED MONITORING WELL

MONITORING WELL

PIEZOMETER

EXTRACTION WELL

AIR WELL

NOTE:

- BOLD INDICATES CONCENTRATION EXCEEDS NR140 ENFORCEMENT STANDARD
- ITALICS INDICATES CONCENTRATION EXCEEDS NR140 PREVENTATIVE ACTION LIMIT

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GROUNDWATER MANGANESE ISOCONCENTRATION MAP - SHALLOW DEPTH (APRIL, 2017)

GROUNDWATER MONITORING AND LIMITED SITE INVESTIGATION
ONALASKA MUNICIPAL LANDFILL
SPORTSMAN CLUB ROAD
ONALASKA, WISCONSIN

Project No:	LC1301254.00
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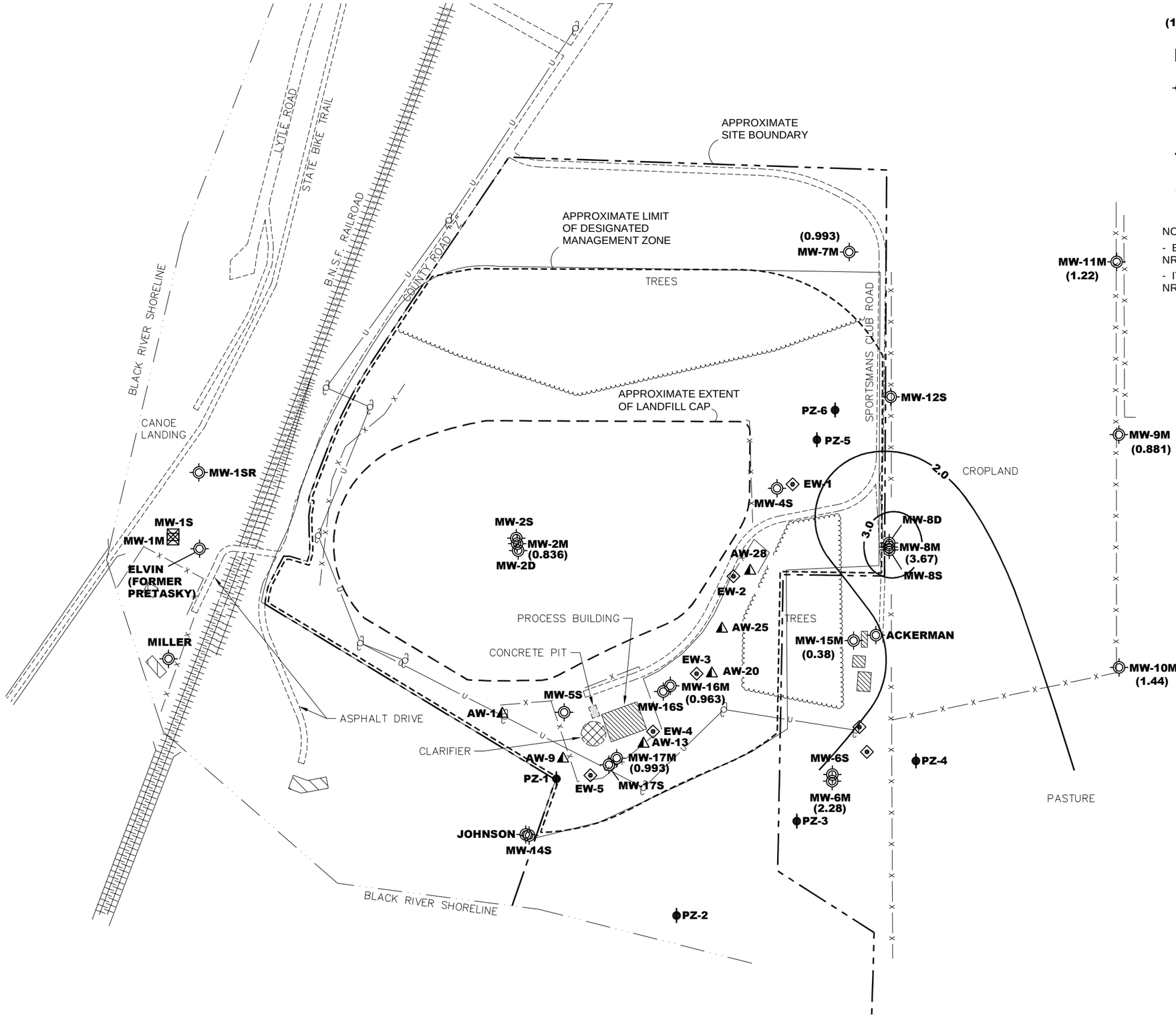

(1.06) **MANGANESE CONCENTRATION (mg/L)**

ABANDONED MONITORING WELL

MONITORING WELL

PIEZOMETER

EXTRACTION WELL

AIR WELL

NOTE:

- BOLD INDICATES CONCENTRATION EXCEEDS NR140 ENFORCEMENT STANDARD
- ITALICS INDICATES CONCENTRATION EXCEEDS NR140 PREVENTATIVE ACTION LIMIT

100' 0 200'

SCALE: 1" = 200'

GROUNDWATER MANGANESE ISOCONCENTRATION MAP - MID DEPTH (APRIL, 2017)

GROUNDWATER MONITORING AND LIMITED SITE INVESTIGATION
ONALASKA MUNICIPAL LANDFILL
SPORTSMAN CLUB ROAD
ONALASKA, WISCONSIN

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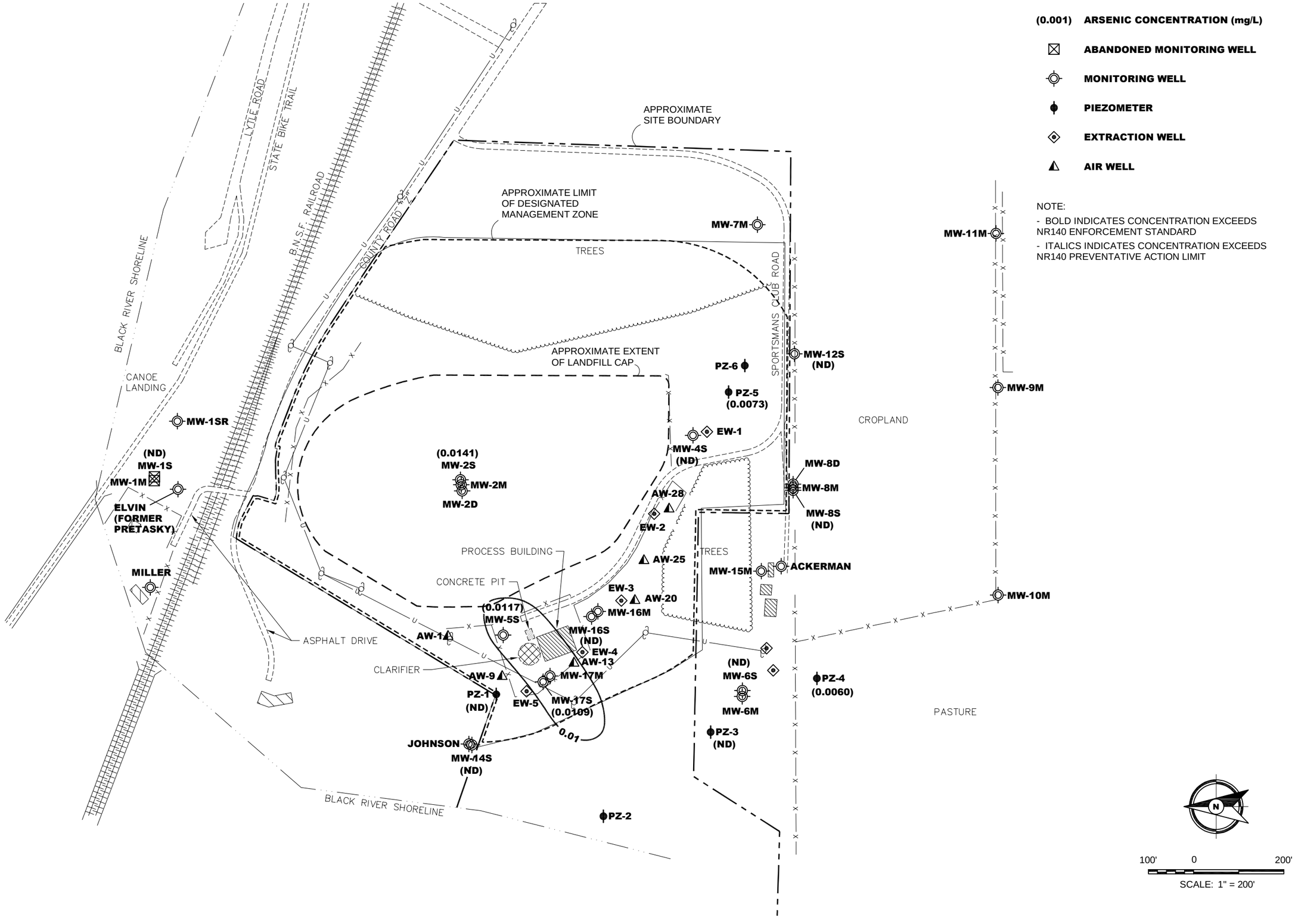

(0.001) ARSENIC CONCENTRATION (mg/L)

ABANDONED MONITORING WELL

MONITORING WELL

PIEZOMETER

EXTRACTION WELL

AIR WELL

NOTE:

- BOLD INDICATES CONCENTRATION EXCEEDS NR140 ENFORCEMENT STANDARD
- ITALICS INDICATES CONCENTRATION EXCEEDS NR140 PREVENTATIVE ACTION LIMIT

GROUNDWATER ARSENIC ISOCONCENTRATION MAP - SHALLOW DEPTH (APRIL, 2017)

GROUNDWATER MONITORING AND LIMITED SITE INVESTIGATION
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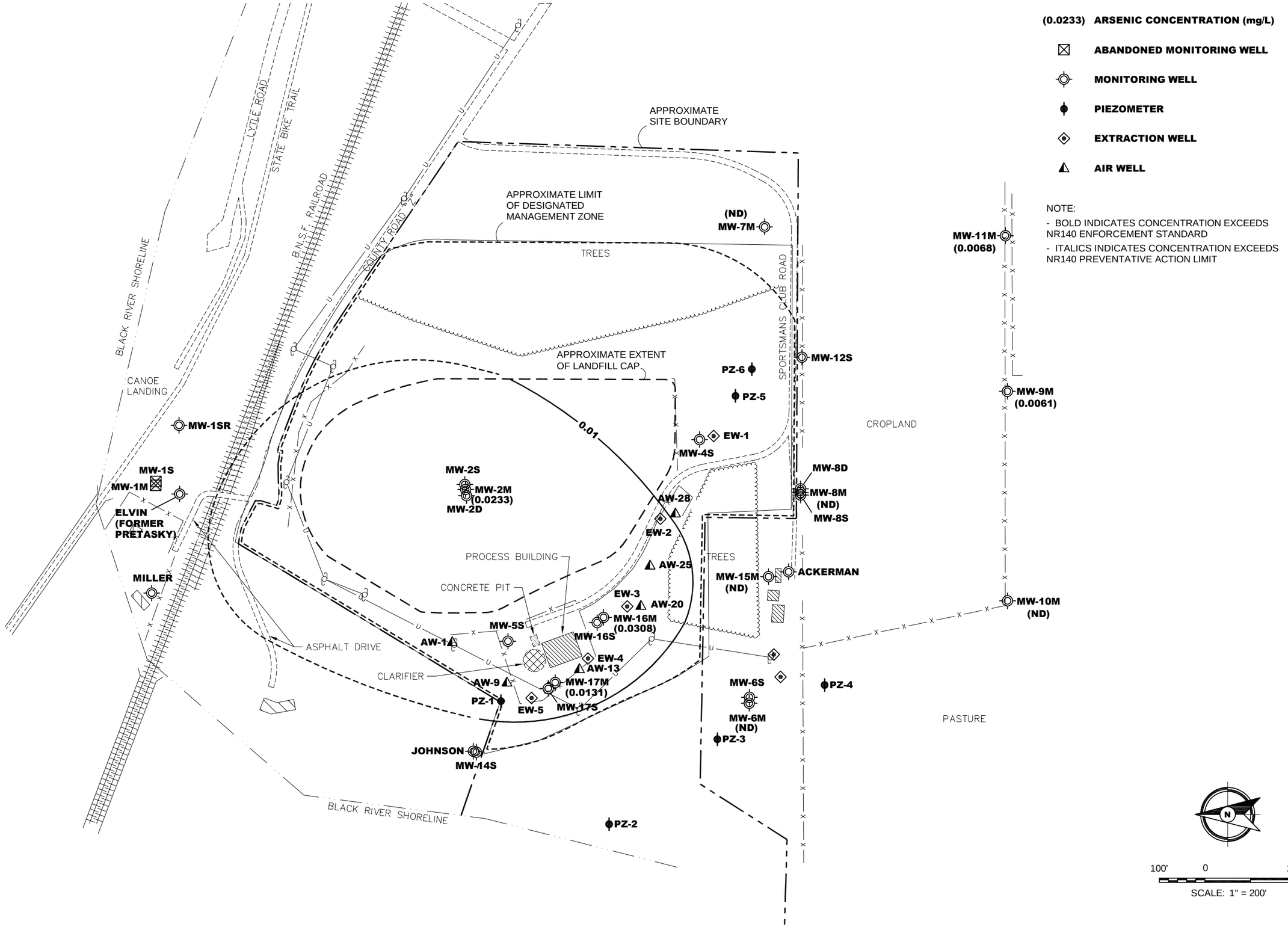

(0.0233) ARSENIC CONCENTRATION (mg/L)

ABANDONED MONITORING WELL

MONITORING WELL

PIEZOMETER

EXTRACTION WELL

AIR WELL

NOTE:

- BOLD INDICATES CONCENTRATION EXCEEDS NR140 ENFORCEMENT STANDARD
- ITALICS INDICATES CONCENTRATION EXCEEDS NR140 PREVENTATIVE ACTION LIMIT

GROUNDWATER ARSENIC ISOCONCENTRATION MAP - MID DEPTH (APRIL, 2017)

GROUNDWATER MONITORING AND LIMITED SITE INVESTIGATION
ONALASKA MUNICIPAL LANDFILL
SPORTSMAN CLUB ROAD
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Fig:	8

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Tables

Table 1
AW-13
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/12/2002	Duplicate 12/12/2002	4/22/2003	4/14/2004	9/23/2004	12/3/2004	3/11/2005	6/10/2005	3/23/2006	9/8/2006
1,2,4-Trimethylbenzene	2	1.8	**860**	250	0.43	3.2	18	12	400	5.1
1,3,5-Trimethylbenzene	< 0.4	1.1	**32**	11	<0.16	<0.16	0.41	0.49	<2.3	0.18
2-Butanone	< 0.59	< 0.59	< 13	< 3.6	<0.39	<0.39	<0.39	<0.39	8.1	<0.39
Acetone	2.5	5.9	< 24	< 6.6	0.84	<0.74	<0.74	<0.74	20	<0.74
Benzene	< 0.37	< 0.37	< 8.2	3.8	<0.22	<0.22	<0.22	<0.22	<3.1	<0.22
Methylene chloride	3.6	3.6	< 6.4	< 2.8	<0.19	0.48	<0.19	<0.19	<2.7	<0.19
Naphthalene	< 0.42	< 0.42	< 9.3	2.4	<0.15	<0.15	0.39	0.25	5.2	<0.15
Toluene	< 0.39	< 0.39	< 8.7	5.3	0.19	0.36	<0.17	<0.17	<2.4	<0.17
Xylenes (total)	< 0.44	< 0.44	10	< 4.5	<0.44	<0.44	<0.44	<0.44	<6.3	<0.44
Metals, mg/L										
Arsenic	0.0033	< 0.0021	0.0048	0.0038	<0.0026	0.0033	<0.0026	0.0047	<0.0043	<0.0043
Barium	0.28	0.27	0.2	0.28	0.26	0.3	0.306	0.333	0.28	0.305
Cadmium	< 0.00028	< 0.00028	0.00034	< 0.00028	<0.00028	<0.00028	<0.0014	<0.00028	<0.00042	<0.00042
Cobalt	0.0043	0.0044	< 0.00074	0.0049	0.0053	0.0063	0.0055	0.0049	0.0032	0.0047
Iron	**4.7**	**5.1**	**34.8**	**10.4**	**5.6**	**7.5**	**9.18**	**11.2**	**16.5**	**6**
Lead	< 0.0016	< 0.0016	< 0.0016	< 0.0017	0.004	0.003	<0.0085	0.005	0.0018	<0.0017
Manganese	**24.3**	**23.7**	**11.4**	**22.7**	**19.7**	**28.2**	**32.9**	**35.2**	**23.9**	**23.6**
Mercury	< 0.000087	< 0.000087	< 0.000087	< 0.000029	0.000059	<0.000029	<0.000029	<0.000029	0.00011	<0.00009
Vanadium	< 0.00067	< 0.00067	< 0.00067	0.00084	0.0039	<0.00071	<0.00071	0.0012	<0.0019	<0.0019
Dissolved Gases, ug/L										
Ethane	< 1.5	< 0.6	< 3	< 1.4	---	---	---	---	----	----
Ethene	< 1.4	< 0.58	< 2.9	< 1.3	---	---	---	---	----	----
Methane	300	340	2200	1800	---	---	---	---	----	----
Natural Attenuation Parameters, mg/L										
Chloride	2.6	2.3	6.7	3.5	---	1.6	---	2	2.4	0.37
Nitrate as N	0.2	0.28	0.01	< 0.016	---	0.064	---	0.06	<0.015	<0.031
Sulfate	3.1	2.7	0.49	0.69	---	0.21	---	<0.11	0.42	0.38
Total Alkalinity	550	550	260	560	---	---	---	---	490	530
Total Organic Carbon	5	4	5	12	---	---	---	---	7	5
pH	---	---	7.08	---	6.35	6.7	7.37	6.47	6.79	6.75
Conductivity (mS/cm)	---	---	0.585	---	1.096	1.027	1.115	695	5.25	390
Temperature (C)	---	---	8.78	---	16.07	12.13	7.35	12.13	8.19	18.97
ORP (mV)	---	---	87	---	193	184	170	-71.5	-50.3	-80
Dissolved Oxygen (mg/L)	---	---	0.32	---	3.32	0.42	0.45	0.23	0.38	0.49

Note: Please see notes provided at the end of this table.

Table 1
AW-13
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	9/10/2007	4/18/2012	10/15/2015	4/22/2016	10/3/2016	4/18/2017	PAL	ES
1,2,4-Trimethylbenzene	0.99	0.82	<0.50	<0.50	<0.50	<0.50	96	480
1,3,5-Trimethylbenzene	<0.096	<0.23	<0.50	<0.50	<0.50	<0.50	96	480
2-Butanone	<0.57	----	<3.0	<3.0	<3.0	<3.0	90	460
Acetone	2.6	----	<3.0	<3.0	<3.0	<3.0	1800	9000
Benzene	<0.13	<0.12	<0.50	<0.50	<0.50	<0.50	0.5	5
Methylene chloride	<0.33	<0.63	<0.23	<0.23	<0.23	<0.23	0.5	5
Naphthalene	<0.24	<0.24	<2.5	<2.5	<2.5	<2.5	10	100
Toluene	<0.13	<0.15	<0.50	<0.50	<0.50	<0.50	160	800
Xylenes (total)	<0.28	<0.30	<1.5	<1.5	<1.5	<1.5	400	2,000
Metals, mg/L								
Arsenic	<0.0043	<0.00015	<0.0072	<0.0072	<0.0072	<0.0054	0.001	0.01
Barium	0.2	0.096	0.0832	0.0836	0.0106	0.0888	0.4	2
Cadmium	<0.00042	0.00013	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Cobalt	0.0023	0.00014	<0.00094	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	0.19	<0.00037	<0.0129	<0.0129	<0.0129	<0.0155	0.15	0.3
Lead	<0.0017	<0.00016	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Manganese	**6.85**	**0.450**	**0.102**	0.111	0.167	**0.529**	0.060	0.300
Mercury	<0.00009	<0.000070	<0.00010	<0.00018	<0.00018	<0.00013	0.0002	0.002
Vanadium	<0.0019	0.00078	<0.0020	<0.0020	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L								
Ethane	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L								
Chloride	0.3	<0.62	----	----	----	----	125	250
Nitrate as N	0.5	---	----	----	----	----	2	10
Sulfate	2.1	---	----	----	----	----	125	250
Total Alkalinity	430	260	296	392	396	390	----	----
Total Organic Carbon	3	----	----	----	----	----	----	----
pH	6.49	7.70	----	----	----	----	----	----
Conductivity (mS/cm)	0.519	590	----	----	----	----	----	----
Temperature (C)	16.09	10.7	----	----	----	----	----	----
ORP (mV)	2.9	-110.3	----	----	----	----	----	----
Dissolved Oxygen (mg/L)	0.57	3.0	----	----	----	----	----	----

Note: Please see notes provided at the end of this table.

Table 1
AW-28
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/12/2002	4/22/2003	4/14/2004	9/24/2004	12/3/2004	3/11/2005	6/10/2005	3/23/2006	9/8/2006	9/10/2007	4/9/2008	4/14/2009
1,2,4-Trimethylbenzene	45	44	10	2.2	34	35	11	24	35	1.5	2.9	<0.20
1,3,5-Trimethylbenzene	21	18	2.6	0.24	9.7	11	3.6	6.4	8.5	<0.096	0.46	<0.20
2-Butanone	< 0.74	< 1.2	< 0.36	<0.39	<0.39	0.46	0.96	1.7	<0.78	<0.57	----	----
4-Methyl-2-pentanone	< 0.32	< 0.52	< 0.34	<0.32	<0.32	<0.32	0.35	<0.64	<0.64	<0.32	----	----
Acetone	5.4	< 2.2	1.2	<0.74	1	<0.74	1.8	3.2	<1.5	1.4	----	----
Benzene	< 0.46	< 0.74	0.44	<0.22	<0.22	<0.22	<0.22	<0.44	<0.44	<0.13	<0.20	<0.20
tert-Butylbenzene	---	---	---	---	---	---	---	---	---	---	---	---
Chloromethane	< 0.61	< 0.98	< 0.26	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	0.45	<0.20	<0.30
Methylene chloride	4.6	< 0.58	< 0.28	<0.19	0.52	<0.19	<0.19	<0.38	<0.38	<0.33	<1.0	<1.0
Naphthalene	< 0.52	< 0.84	0.25	<0.15	<0.15	<0.15	<0.15	0.36	0.34	<0.24	0.36	<0.25
n-Propylbenzene	---	---	---	---	---	---	---					
Toluene	0.83	< 0.78	< 0.17	<0.17	<0.17	<0.17	<0.17	<0.34	<0.34	<0.13	0.41	<0.50
Xylenes (total)	2.9	1.6	0.57	<0.44	0.66	1.4	0.6	<0.88	<0.88	<0.28	<0.50	<0.50
Metals, mg/L												
Arsenic	0.0026	< 0.0021	< 0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0043	<0.0043	<0.0043	0.0012	0.0024
Barium	0.26	0.22	0.22	0.19	0.25	0.254	0.239	0.164	0.237	0.199	0.210	0.120
Cadmium	< 0.00028	< 0.00028	0.00034	<0.00028	<0.00028	<0.00028	<0.00028	<0.00042	<0.00042	<0.00042	0.00008	<0.00012
Calcium												
Cobalt	0.0064	0.0036	0.0059	<0.00096	0.003	0.0029	0.0024	<0.0012	0.0022	0.0025	0.0016	0.0015
Iron	**9.8**	**3.7**	**0.74**	**0.66**	**5.6**	**8.89**	**6.8**	**5.4**	**7.8**	**2**	**1.1**	**1.1**
Lead	< 0.0016	< 0.0016	< 0.0017	<0.0017	<0.0017	<0.0017	0.002	<0.0017	<0.0017	<0.0017	0.00016	<0.00012
Magnesium												
Manganese	**5**	**2.4**	**2.5**	**1.1**	**3.7**	**4.32**	**3.32**	**1.31**	**2.72**	**0.977**	**1.3**	0.23
Mercury	< 0.000087	< 0.000087	< 0.000029	0.000032	<0.000029	<0.000029	0.00006	<0.00009	<0.00009	<0.00009	<0.000065	<0.000065
Potassium	----	----	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----	----	----
Vanadium	< 0.00067	< 0.00067	< 0.00071	<0.00071	<0.00071	<0.00071	<0.00071	<0.0019	<0.0019	<0.0019	0.0019	0.0026
Dissolved Gases, ug/L												
Ethane	< 3	< 3	< 0.14	---	---	---	---	----	----	----	----	----
Ethene	< 2.9	< 2.9	0.18	---	---	---	---	----	----	----	----	----
Methane	1200	1700	2800	---	---	---	---	----	----	----	----	----
Natural Attenuation Parameters, mg/L												
Chloride	10.8	14	19.7	---	2.6	---	4.9	13.8	5.1	0.2	5.9	7.1
Nitrate as N	1.1	1.7	8.9	---	0.29	---	0.52	0.16	0.16	0.5	---	---
Sulfate	1.4	2.7	9.6	---	3.4	---	5.3	1.8	2.8	2.6	---	---
Total Alkalinity	370	360	390	---	---	---	---	270	330	450	350	180
Total Organic Carbon	9	11	33	---	---	---	---	5	4	3	---	---
pH	---	7.02	---	6.15	6.54	7.16	6.01	6.95	6.54	6.57	7.00	7.10
Conductivity (mS/cm)	---	0.7	---	0.67	0.722	0.764	447	329	423	0.517	476	510
Temperature (C)	---	8.35	---	14.29	12.34	9.23	11.14	9.35	14.1	14.01	7.4	7.7
ORP (mV)	---	166	---	214	184	189	-35.3	-37.5	-58.7	-14.1	+4	+25
Dissolved Oxygen (mg/L)	---	1.36	---	0.43	3.01	0.92	0.71	1.08	0.11	0.43	1.5	2.0

Note: Please see notes provided at the end of this table.

Table 1
AW-28
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/28/2010	4/18/2012	5/17/2013	4/28/2014	10/15/2015	4/27/2016	4/21/2017	PAL	ES
1,2,4-Trimethylbenzene	<0.20	<0.22	----	----	----	----	<0.5	96	480
1,3,5-Trimethylbenzene	<0.20	<0.23	----	----	----	----	<0.50	96	480
2-Butanone	----	----	----	----	----	----	<3	90	460
4-Methyl-2-pentanone	----	----	----	----	----	----	<2.1	50	500
Acetone	----	----	----	----	----	----	<3	1800	9000
Benzene	<0.20	<0.12	----	----	----	----	<0.50	0.5	5
tert-Butylbenzene	0.21	<0.24	----	----	----	----	0.43J	-----	-----
Chloromethane	<0.30	<0.24	----	----	----	----	<0.50	3	30
Methylene chloride	<1.0	<0.63	----	----	----	----	<0.23	0.5	5
Naphthalene	<0.25	<0.24	----	----	----	----	<2.5	10	100
n-Propylbenzene							0.66	-----	-----
Toluene	<0.50	<0.15	----	----	----	----	<0.50	160	800
Xylenes (total)	<0.50	<0.30	----	----	----	----	<1.5	400	2,000
Metals, mg/L									
Arsenic	<0.00061	<0.00015	0.0046	<0.0072	<0.0072	<0.0072	**0.0088J**	0.001	0.01
Barium	0.13	0.069	0.297	0.0972	0.198	0.226	0.266	0.4	2
Cadmium	<0.00061	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium			136	62.4	----	----	----	----	----
Cobalt	0.0025	0.00027	0.0038	0.001	0.0012	0.0018	<0.0014	0.008	0.04
Iron	**0.46**	<0.037	**2.85**	**0.446**	**0.762**	**4.88**	**10.8**	0.15	0.3
Lead	<0.00061	<0.00016	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium			57.7	27.6	----	----	----	----	----
Manganese	**2.1**	**0.370**	**2.76**	**0.630**	**1.55**	**1.94**	**1.97**	0.060	0.300
Mercury	<0.000065	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.0013	0.0002	0.002
Potassium	----	----	2.3	1.20	----	----	----	----	----
Sodium	----	----	20.9	7.86	----	----	----	----	----
Vanadium	<0.00061	<0.00034	0.0035	<0.0020	0.0047	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L									
Ethane	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L									
Chloride	12	2.1	59.7	6.0	----	----	----	125	250
Nitrate as N	---	---	----	----	----	----	----	2	10
Sulfate	---	---	10	6.6	----	----	----	125	250
Total Alkalinity	300	200	287	271	370	282	316	----	----
Total Organic Carbon	---	---	----	----	----	----	----	----	----
pH	6.8	8.57	6.76	7.17	----	----	----	----	----
Conductivity (mS/cm)	420	440	0.638	0.38	----	----	----	----	----
Temperature (C)	9.1	10.3	8.48	7.59	----	----	----	----	----
ORP (mV)	+5	47.3	-16.4	55.9	----	----	----	----	----
Dissolved Oxygen (mg/L)	2.0	3.5	6.1	10.75	----	----	----	----	----

Note: Please see notes provided at the end of this table.

Table 1
1SR
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	10/8/2003	4/13/2004	9/23/2004	12/2/2004	3/10/2005	6/8/2005	3/23/2006	3/22/2007	4/10/2008
1,2,4-Trimethylbenzene	1.1	< 0.14	<0.12	0.13	<0.12	<0.12	<0.12	<0.12	<0.20
1,3,5-Trimethylbenzene	0.3	< 0.18	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.20
Acetone	< 0.66	< 0.66	<0.74	<0.74	<0.74	<0.74	0.8	<0.74	----
Benzene	< 0.2	0.5	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.20
Bromomethane	< 0.16	< 0.16	0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.20
Chloromethane	< 0.26	< 0.26	0.18	<0.14	<0.14	<0.14	<0.14	<0.14	<0.20
Methylene chloride	< 0.28	< 0.28	<0.19	0.41	<0.19	<0.19	0.48	<0.19	<1.0
Naphthalene	0.34	< 0.16	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25
Toluene	< 0.17	< 0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.29
Xylenes (total)	0.64	< 0.45	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.50
Metals, mg/L									
Arsenic	< 0.0029	< 0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0043	<0.0043	0.00039
Barium	0.18	0.047	0.12	0.085	0.0644	0.0455	0.0393	0.0407	0.027
Cadmium	< 0.00036	< 0.00028	<0.00028	0.00029	<0.00028	<0.00028	<0.00042	<0.00042	0.00002
Calcium	----	----	----	----	----	----	----	----	----
Cobalt	0.003	0.00099	<0.00096	0.0016	0.0011	0.0014	<0.0012	<0.0012	0.00041
Iron	**6.2**	**0.76**	**2.8**	**2.8**	**3.63**	**1.3**	**0.51**	0.25	<0.0022
Lead	0.0024	< 0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.00026
Magnesium	----	----	----	----	----	----	----	----	----
Manganese	**2.1**	**1.8**	**4.3**	**4**	**2.88**	**2.41**	**1.84**	**2.05**	**0.68**
Mercury	< 0.000067	< 0.000029	<0.000029	<0.000029	<0.000029	0.00007	<0.00009	<0.00009	<0.000065
Potassium	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----
Vanadium	0.008	0.0018	<0.00071	0.0013	0.003	0.002	<0.0019	<0.0019	0.00084
Dissolved Gases, ug/L									
Ethane	< 0.3	< 0.14	----	----	----	----	----	----	----
Ethene	< 0.29	< 0.13	----	----	----	----	----	----	----
Methane	250	87	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L									
Chloride	8.9	7.3	---	9.3	----	6.9	7.2	8.1	7.9
Nitrate as N	< 0.019	0.23	---	<0.016	----	0.042	0.051	<0.031	----
Sulfate	7	4.6	---	5.2	----	10.9	11.9	5.6	----
Total Alkalinity	95	97	---	---	----	----	100	83	89
Total Organic Carbon	5	5	---	---	----	----	4	5	----
pH	6.95	---	6.33	7.08	7.8	7.07	7.25	7.19	6.86
Conductivity (mS/cm)	0.254	---	0.363	0.359	0.241	136	144	130	239
Temperature (C)	11.93	---	13.74	12.06	8.82	8.67	8.36	8.43	6.3
ORP (mV)	162	---	182	203	195	54	12.7	16.2	+7
Dissolved Oxygen (mg/L)	6.6	---	1.11	1.67	2.26	4.6	3.57	2.71	----

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Note: Please see notes provided at the end of this table.

Table 1
1SR
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/15/2009	4/28/2010	4/18/2012	5/17/2013	4/29/2014	10/15/2015	4/22/2016	4/18/2017	PAL	ES
1,2,4-Trimethylbenzene	<0.20	<0.20	<0.22	----	----	----	----	----	96	480
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.23	----	----	----	----	----	96	480
Acetone	----	----	----	----	----	----	----	----	1800	9000
Benzene	<0.20	<0.20	<0.12	----	----	----	----	----	0.5	5
Bromomethane	<0.50	<0.50	<0.49	----	----	----	----	----	1	10
Chloromethane	<0.30	<0.30	<0.24	----	----	----	----	----	3	30
Methylene chloride	<1.0	<1.0	<0.63	----	----	----	----	----	0.5	5
Naphthalene	<0.25	<0.25	<0.24	----	----	----	----	----	10	100
Toluene	<0.50	<0.50	<0.15	----	----	----	----	----	160	800
Xylenes (total)	<0.50	<0.50	<0.30	----	----	----	----	----	400	2,000
Metals, mg/L										
Arsenic	0.00027	<0.00061	0.00025	<0.0044	<0.0072	<0.0072	<0.0072	<0.0054	0.001	0.01
Barium	0.033	0.033	0.037	0.0263	0.0316	0.0664	0.0273	0.0215	0.4	2
Cadmium	<0.00012	<0.00061	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	----	----	34.3	26.1	----	----	----	----	----
Cobalt	0.00024	<0.00061	0.021	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	<0.15	0.28	0.250	0.0149	0.0279	0.141	<0.0129	<0.0155	0.15	0.3
Lead	0.00029	<0.00061	**0.029**	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	----	----	12.8	9.43	----	----	----	----	----
Manganese	0.19	0.049	**0.600**	0.187	0.269	**0.320**	0.042	0.0553	0.060	0.300
Mercury	<0.000065	<0.000065	<0.000070	<0.0001	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	----	----	----	2.04	1.59	----	----	----	----	----
Sodium	----	----	----	3.75	3.92	----	----	----	----	----
Vanadium	0.00054	<0.00061	0.00060	<0.0012	<0.0020	<0.0020	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L										
Ethane	----	----	<0.49	----	----	----	----	----	----	----
Ethene	----	----	0.64	----	----	----	----	----	----	----
Methane	----	----	2.8	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L										
Chloride	5.8	3.6	8.9	7.2	6.9	----	----	----	125	250
Nitrate as N	----	----	<0.043	----	----	----	----	----	2	10
Sulfate	----	----	6.3	6.2	14.2	----	----	----	125	250
Total Alkalinity	140	170	110	113	101	160	114	101	----	----
Total Organic Carbon	----	----	4.8	----	----	----	----	----	----	----
pH	6.99	7.1	7.86	6.73	7.84	6.92	7.53	7.02	----	----
Conductivity (mS/cm)	219	340	320	0.174	0.163	0.299	0.196	0.181	----	----
Temperature (C)	6.9	8.2	12.3	9.85	7.22	11.37	9.06	9.41	----	----
ORP (mV)	+17	+15	39.7	65.6	48.4	16.4	70.2	80.9	----	----
Dissolved Oxygen (mg/L)	2.0	3.0	4.5	4.62	12.45	1.16	3.28	3.64	----	----

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Note: Please see notes provided at the end of this table.

Table 1
2S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/11/2002	4/22/2003	10/7/2003	4/13/2004	12/2/2004	6/9/2005	3/23/2006	3/22/2007	4/19/2012
1,2,4-Trimethylbenzene	< 0.37	< 0.37	0.14	< 0.14	0.21	0.29	<0.12	<0.12	<0.22
1,3-Dichlorobenzene									0.53
1,4-Dichlorobenzene									2.2
Acetone	3.8	< 1.1	< 0.66	4.1	<0.74	<0.74	1.3	1	----
Benzene	0.91	0.45	1.3	1.2	1.3	0.82	0.47	0.45	0.94
Carbon disulfide	< 0.24	< 0.24	< 0.21	0.44	<0.28	<0.28	<0.28	<0.28	----
Chlorobenzene	19	1.5	13	7.1	23	19	5.2	2.1	18
Chloroethane	< 0.29	< 0.29	< 0.22	< 0.22	<0.24	0.27	<0.24	<0.24	<0.33
Isopropylbenzene	----	----	----	----	----	----	----	----	----
Methylene chloride	2.8	< 0.29	< 0.28	< 0.28	0.42	<0.19	0.39	0.21	<0.63
Naphthalene	< 0.42	< 0.42	< 0.16	< 0.16	<0.15	0.21	2	<0.15	<0.24
n-Propylbenzene	----	----	----	----	----	----	----	----	----
Xylenes (total)	< 0.44	< 0.44	< 0.45	< 0.45	<0.44	<0.44	0.78	<0.44	0.39
Metals, mg/L									
Arsenic	**0.012**	**0.012**	**0.011**	**0.013**	**0.012**	**0.0123**	**0.0106**	**0.0128**	0.0097
Barium	0.17	0.14	0.18	0.14	0.18	0.2	0.128	0.168	0.140
Cadmium	< 0.00028	< 0.00028	< 0.00036	< 0.00028	0.00041	<0.00028	<0.00042	<0.00042	<0.00010
Calcium	----	----	----	----	----	----	----	----	----
Cobalt	0.008	0.0013	0.0019	0.0039	0.0022	0.0033	0.0013	0.0019	0.00086
Iron	**29.5**	**29.3**	**40**	**36.2**	**42.1**	**42.2**	**33.8**	**37.9**	**35**
Lead	< 0.0016	< 0.0016	< 0.0023	< 0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.00055
Magnesium	----	----	----	----	----	----	----	----	----
Manganese	**1.9**	**2.8**	**3**	**2.3**	**2.2**	**2.36**	**2.19**	**1.49**	**0.990**
Mercury	< 0.000087	< 0.000087	< 0.000067	< 0.000029	<0.000029	0.000061	<0.00009	<0.00009	<0.000070
Potassium	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----
Vanadium	0.00084	0.002	0.0013	0.0022	0.0019	0.001	<0.0019	<0.0019	0.00087
Dissolved Gases, ug/L									
Ethane	< 1.5	< 1.5	< 3	< 1.4	---	----	----	----	----
Ethene	< 1.4	< 1.4	< 2.9	< 1.3	---	----	----	----	----
Methane	520	540	870	3200	---	----	----	----	----
Natural Attenuation Parameters, mg/L									
Chloride	26.1	18.4	12.8	9.2	34.5	14.9	25.6	20.9	32
Nitrate as N	< 0.0076	0.01	< 0.019	< 0.016	<0.016	<0.016	<0.015	<0.031	----
Sulfate	< 0.11	0.22	0.25	0.23	0.12	< 0.11	0.15	0.27	----
Total Alkalinity	180	170	230	160	---	----	160	170	180
Total Organic Carbon	6	4	5	6	---	----	5	5	----
pH	6.47	6.74	6.47	---	6.29	6.01	6.67	6.57	7.34
Conductivity (mS/cm)	0.563	0.476	0.56	---	10.43	366	320	332	440
Temperature (C)	10.65	11.36	10.83	---	10.43	10.98	10.87	10.86	10.1
ORP (mV)	133	96	168	---	176	-53	-44.7	-32	-57.6
Dissolved Oxygen (mg/L)	3.35	0.9	1.93	---	2.49	1.95	3.19	0.77	2.0

Note: Please see notes provided at the end of this table.

Table 1
2S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	5/16/2013	4/29/2014	10/15/2015	4/27/2016	4/21/2017	PAL	ES
1,2,4-Trimethylbenzene	<0.57	<0.50	1.6	1.4	0.5	96	480
1,3-Dichlorobenzene	<0.45	<0.50	1.8	1.4	<0.50	120	600
1,4-Dichlorobenzene	2.5	1.4	2.9	2.4	1.3	15	75
Acetone	4.6	<3.0	<3.0	<3.0	<3	1800	9000
Benzene	0.67	<0.50	1.8	1.5	<0.50	0.5	5
Carbon disulfide	<0.71	<0.51	<0.61	<0.61	<0.61	200	1000
Chlorobenzene	8.7	3.2	68.9	59.6	3.4	----	----
Chloroethane	<0.44	<0.37	<0.37	<0.37	<0.37	80	400
Isopropylbenzene	----	<0.12	0.40	0.43	<0.14	-----	-----
Methylene chloride	<0.36	<0.23	<0.23	<0.23	0.33J	0.5	5
Naphthalene	<2.5	<2.5	<2.5	<2.5	<2.5	10	100
n-Propylbenzene	----	<0.50	0.55	<0.50	<0.50	-----	-----
Xylenes (total)	<1.3	<1.5	<1.5	1.7	<1.5	400	2,000
Metals, mg/L							
Arsenic	0.0095	**0.013**	0.0080	0.0083	**0.0141J**	0.001	0.01
Barium	0.152	0.109	0.135	0.161	0.0842	0.4	2
Cadmium	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	32.1	32.5	----	----	----	----	----
Cobalt	<0.00085	<0.00094	<0.00094	0.00097	<0.0014	0.008	0.04
Iron	**37.1**	**33.2**	**27.1**	**32.8**	**29.3**	0.15	0.3
Lead	<0.0012	<0.0030	<0.0030	0.00036	<0.0043	0.0015	0.015
Magnesium	7.71	8.35	----	----	----	----	----
Manganese	**0.999**	**1.02**	**0.799**	**0.787**	**0.904**	0.060	0.300
Mercury	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	9.89	5.44	----	----	----	----	----
Sodium	25	16.1	----	----	----	----	----
Vanadium	0.002	<0.0020	0.0029	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L							
Ethane	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L							
Chloride	15.2	19.9	----	----	----	125	250
Nitrate as N	----	----	----	----	----	2	10
Sulfate	2.4	<2.0	----	----	----	125	250
Total Alkalinity	169	159	233	218	316	----	----
Total Organic Carbon	----	----	----	----	----	----	----
pH	6.52	9.32	6.46	6.90	6.62	----	----
Conductivity (mS/cm)	0.372	0.376	0.481	0.457	0.342	----	----
Temperature (C)	11.43	10.86	10.14	10.90	10.62	----	----
ORP (mV)	-49.8	-554.3	-47.3	-68.7	-74.0	----	----
Dissolved Oxygen (mg/L)	1.1	0.60	0.34	0.47	0.79	----	----

Note: Please see notes provided at the end of this table.

Table 1
2M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/11/2002	4/22/2003	10/7/2003	4/13/2004	12/2/2004	6/9/2005	3/23/2006	3/22/2007	4/28/2010	4/19/2012
Acetone	5.5	< 1.1	< 0.66	< 0.66	<0.74	<0.74	0.85	0.88	----	----
Benzene	< 0.37	< 0.37	< 0.2	0.46	<0.22	<0.22	<0.22	<0.22	----	<0.12
Chlorobenzene	< 0.38	< 0.38	< 0.16	< 0.16	<0.2	<0.2	<0.2	0.28	----	<0.24
Methylene chloride	3.1	< 0.29	< 0.28	< 0.28	0.4	<0.19	0.43	0.19	----	<0.63
Metals, mg/L										
Arsenic	**0.019**	**0.019**	**0.02**	**0.021**	**0.019**	**0.0234**	**0.0147**	**0.0226**	----	0.0068
Barium	0.37	0.66	0.42	0.35	0.43	1.07	0.801	1.05	----	0.240
Cadmium	< 0.00028	< 0.00028	< 0.00036	< 0.00028	<0.00028	<0.00028	<0.00042	<0.00042	----	<0.00010
Calcium	----	----	----	----	----	----	----	----	----	----
Cobalt	< 0.00074	< 0.00074	< 0.0011	< 0.00096	<0.00096	<0.00096	<0.0012	<0.0012	----	0.00038
Iron	**5**	**9.6**	**6.4**	**4.9**	**5.7**	**16.8**	**9.4**	**18.7**	----	0.100
Lead	< 0.0016	< 0.0016	< 0.0023	< 0.0017	<0.0017	<0.0017	<0.0017	<0.0017	----	0.00036
Magnesium	----	----	----	----	----	----	----	----	----	----
Manganese	**0.41**	**0.64**	**0.41**	**0.49**	**0.47**	**1.02**	**0.932**	**1.17**	----	0.210
Mercury	0.000092	< 0.000087	< 0.000067	0.00084	<0.000029	0.000056	0.00012	<0.00009	----	<0.000070
Potassium	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----
Vanadium	< 0.00067	< 0.00067	< 0.00096	< 0.00071	0.00089	<0.00071	<0.0019	<0.0019	----	<0.00034
Dissolved Gases, ug/L										
Ethane	< 0.3	< 0.6	< 0.3	< 0.14	----	----	----	----	----	----
Ethene	< 0.29	< 0.58	< 0.29	< 0.13	----	----	----	----	----	----
Methane	22	310	130	73	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L										
Chloride	4.8	16	6.9	5.5	6.7	28.2	18.8	42.8	----	6.5
Nitrate as N	< 0.0076	< 0.0076	< 0.019	< 0.016	<0.016	<0.016	<0.015	<0.031	----	----
Sulfate	0.13	< 0.11	< 0.14	< 0.11	<0.11	<0.11	<0.12	<0.12	----	----
Total Alkalinity	100	160	110	100	----	----	230	230	----	130
Total Organic Carbon	4	4	4	4	----	----	5	5	----	----
pH	6.98	7.26	7.02	----	7.24	6.92	7.37	7.22	----	7.66
Conductivity (mS/cm)	0.231	0.391	0.26	----	0.271	370	332	421	----	220
Temperature (C)	10.01	10.61	10.6	----	9.64	10.78	10.37	10.34	----	9.6
ORP (mV)	107	89	140	----	147	-137.2	-144.9	-113	----	-3.8
Dissolved Oxygen (mg/L)	0.41	1.11	0.99	----	1.12	1.24	1.03	0.42	----	4.4

Note: Please see notes provided at the end of this table.

Table 1
2M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	5/16/2013	4/29/2014	10/15/2015	4/27/2016	4/21/2017	PAL	ES
Acetone	----	----	----	----	----	1800	9000
Benzene	----	----	----	----	----	0.5	5
Chlorobenzene	----	----	----	----	----	-----	-----
Methylene chloride	----	----	----	----	----	0.5	5
Metals, mg/L							
Arsenic	**0.0235**	**0.0285**	**0.017**	**0.0204**	**0.0233J**	0.001	0.01
Barium	0.795	0.646	0.519	0.453	0.501	0.4	2
Cadmium	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	61.4	48.2	----	----	----	----	----
Cobalt	0.0015	0.0014	0.001	0.001	<0.0014	0.008	0.04
Iron	**18.2**	**13.4**	**10.3**	**9.94**	**9.56**	0.15	0.3
Lead	<0.0012	<0.0030	0.0034	<0.0030	<0.0043	0.0015	0.015
Magnesium	13.6	10.7	----	----	----	----	----
Manganese	**1.25**	**1.02**	**0.864**	**0.787**	**0.836**	0.060	0.300
Mercury	<0.0001	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	1.05	0.869	----	----	----	----	----
Sodium	8.4	11.3	----	----	----	----	----
Vanadium	0.0024	<0.0020	0.0028	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L							
Ethane	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L							
Chloride	30.1	32.3	----	----	----	125	250
Nitrate as N	----	----	----	----	----	2	10
Sulfate	<2.0	<2.0	----	----	----	125	250
Total Alkalinity	155	151	133	125	129	----	----
Total Organic Carbon	----	----	----	----	----	----	----
pH	7.32	8.45	7.27	7.72	7.47	----	----
Conductivity (mS/cm)	0.335	0.340	0.253	0.212	0.247	----	----
Temperature (C)	10.77	10.57	10.22	10.59	10.19	----	----
ORP (mV)	-142.2	-384.2	-122.0	-16.2	-166.6	----	----
Dissolved Oxygen (mg/L)	0.86	0.53	0.54	0.32	0.83	----	----

Note: Please see notes provided at the end of this table.

Table 1
4S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/12/2002	Duplicate 12/12/2002	4/22/2003	10/8/2003	4/13/2004	Duplicate 4/13/2004	9/24/2004	12/2/2004	Duplicate 12/3/2004	3/10/2005	Duplicate 3/10/2005
1,2,4-Trimethylbenzene	**540**	**570**	**780**	**1100**	**1100**	**1000**	**1900**	**1600**	**1500**	**1100**	**1100**
1,3,5-Trimethylbenzene	**120**	**130**	**170**	**230**	**310**	**280**	**390**	**410**	**360**	**260**	**270**
Acetone	< 28	< 28	< 31	< 55	< 26	< 19	<53	<37	<37	<25	<25
Benzene	< 9.2	< 9.2	< 11	< 17	**13**	**17**	<16	<11	<11	<7.3	<7.3
n-Butylbenzene	----	----	----	----	----	----	----	----	----	----	----
sec-Butylbenzene	----	----	----	----	----	----	----	----	----	----	----
tert-Butylbenzene	----	----	----	----	----	----	----	----	----	----	----
Ethylbenzene	10	< 10	16	38	9.4	8.4	50	26	27	21	21
Hexachlorobutadiene	----	----	----	----	----	----	----	----	----	----	----
Isopropylbenzene	----	----	----	----	----	----	----	----	----	----	----
p-Isopropyltoluene	----	----	----	----	----	----	----	----	----	----	----
Methylene chloride	< 7.2	< 7.2	< 8.3	< 23	< 11	< 8	<14	**49**	**42**	<6.3	<6.3
Naphthalene	< 10	< 10	14	20	< 6.4	7.6	<11	<7.5	<7.5	14	13
n-Propylbenzene	----	----	----	----	----	----	----	----	----	----	----
Xylenes (total)	29	27	54	160	52	39	210	93	87	77	79
Metals, mg/L											
Arsenic	0.0089	0.009	0.0065	0.0091	0.0086	0.0083	0.0066	0.0095	**0.01**	0.0083	**0.0101**
Barium	0.3	0.32	0.26	0.29	0.33	0.33	0.29	0.32	0.33	0.315	0.313
Cadmium	< 0.00028	< 0.00028	< 0.00028	< 0.00036	< 0.00028	< 0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
Cobalt	< 0.00074	< 0.00074	< 0.00074	< 0.0011	< 0.00096	< 0.00096	<0.00096	<0.00096	<0.00096	<0.00096	<0.00096
Iron	**16.9**	**17.2**	**15.4**	**18.9**	**24.7**	**25.4**	**18**	**22.9**	**23.2**	**23.8**	**23.3**
Lead	< 0.0016	< 0.0016	< 0.0016	< 0.0023	< 0.0017	< 0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
Manganese	**2.1**	**2.1**	**1.8**	**2.1**	**2.1**	**2.2**	**2.1**	**2.5**	**2.5**	**2.14**	**2.13**
Mercury	< 0.000087	< 0.000087	< 0.000087	< 0.000067	< 0.000029	< 0.000029	0.000045	<0.000029	<0.000029	<0.000029	<0.000029
Vanadium	< 0.00067	< 0.00067	< 0.00067	< 0.00096	< 0.00071	0.00088	<0.00071	<0.00071	0.0012	0.0011	0.00074
Dissolved Gases, ug/L											
Ethane		< 3	< 3	< 3	< 2.8	< 2.8	---	---	---	----	----
Ethene	< 2.9	< 2.9	< 2.9	< 2.9	< 2.6	< 2.6	---	---	---	----	----
Methane	1200	750	1700	1400	160	500	---	---	---	----	----
Natural Attenuation Parameters, mg/L											
Chloride	13.5	13.5	10.2	7.7	11.4	11	---	5.9	6.1	----	----
Nitrate as N	< 0.0076	< 0.0076	< 0.0076	< 0.019	< 0.016	< 0.016	---	<0.016	<0.016	----	----
Sulfate	0.98	0.92	0.22	0.15	1		---	0.14	0.44	----	----
Total Alkalinity	280	280	260	290	310	310	---	---	---	----	----
Total Organic Carbon	5	6	5	4	12	14	---	---	---	----	----
pH	6.66	7.15	---	6.825	---	---	6.34	6.61	---	7.22	----
Conductivity (mS/cm)	0.612	0.543	---	0.611	---	---	0.635	0.645	---	0.596	----
Temperature (C)	12.02	10.15	---	11.72	---	---	11.88	12.44	---	11.19	----
ORP (mV)	117	132	---	133	---	---	181	173	---	179	----
Dissolved Oxygen (mg/L)	4.49	0.58	---	7.49	---	---	3.02	1.13	---	2.08	----

Note: Please see notes provided at the end of this table.

Table 1
4S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	6/9/2005	Duplicate 6/9/2005	3/23/2006	9/7/2006	3/22/2007	9/11/2007	4/9/2008	10/8/2008	4/14/2009	10/28/2009	4/28/2010
1,2,4-Trimethylbenzene	**1500**	**1700**	**580**	**1200**	**660**	**1200**	**440**	**910**	**470**	**780**	**480**
1,3,5-Trimethylbenzene	**380**	**420**	**150**	**260**	**110**	**280**	**120**	**220**	**65**	**28**	**18**
Acetone	<37	<37	48	<25	<12	<55	----	----	----	----	----
Benzene	<11	<11	<3.7	<7.3	<3.7	<6.5	<0.20	<0.20	<2.0	<0.20	<1.6
n-Butylbenzene	----	----	----	----	----	----	9.5	16	10	<0.20	7.7
sec-Butylbenzene	----	----	----	----	----	----	16	27	20	32	20
tert-Butylbenzene	----	----	----	----	----	----	----	<0.20	----	----	2.7
Ethylbenzene	32	27	4.1	9.6	3.7	19	1.3	18	<5.0	6.5	<4.0
Hexachlorobutadiene	----	----	----	----	----	----	1.2	<0.50	<5.0	<0.50	<4.0
Isopropylbenzene	----	----	----	----	----	----	6.4	27	11	21	9.3
p-Isopropyltoluene	----	----	----	----	----	----	30	32	24	31	19
Methylene chloride	<9.5	<9.5	<3.2	<6.3	<3.2	<16	<1.0	<1.0	<10	<1.0	<8.0
Naphthalene	32	25	7	18	8.3	30	5.1	33	8.2	11	4.1
n-Propylbenzene	----	----	----	----	----	----	13	60	24	45	20
Xylenes (total)	140	120	23	52	25	120	13	91	12	24	8.0
Metals, mg/L											
Arsenic	0.0091	0.0092	0.0052	<0.0043	<0.0043	0.0058	0.0046	0.0076	0.005	0.0068	0.0058
Barium	0.361	0.342	0.248	0.267	0.244	0.328	0.270	0.300	0.270	0.240	0.27
Cadmium	<0.00028	<0.00028	<0.00042	<0.00042	<0.00042	<0.00042	0.00001	<0.00012	<0.00012	<0.00061	<0.00061
Cobalt	<0.00096	<0.00096	<0.0012	<0.0012	<0.0012	<0.0012	0.00068	0.00044	0.0005	<0.00061	<0.00061
Iron	**27.5**	**25.9**	**17**	**16.1**	**13.3**	**14.9**	**11**	**11**	**11**	**12**	**9.2**
Lead	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.00019	<0.00012	0.00035	<0.00061	<0.00061
Manganese	**2.29**	**2.14**	**1.41**	**1.78**	**1.28**	**1.84**	**1.3**	**2.1**	0.011	**1**	**1.3**
Mercury	0.000087	0.000042	<0.00009	<0.00009	<0.00009	<0.00009	<0.000065	<0.000065	<0.000065	<0.000065	<0.000065
Vanadium	<0.00071	<0.00071	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	0.0016	0.00055	0.0007	<0.00061
Dissolved Gases, ug/L											
Ethane	----	----	----	----	----	----	----	----	----	-----	-----
Ethene	----	----	----	----	----	----	----	----	----	-----	-----
Methane	----	----	----	----	----	----	----	----	----	-----	-----
Natural Attenuation Parameters, mg/L											
Chloride	15.9	15.6	13.8	9.6	8.9	4.4	13	----	16	-----	9.5
Nitrate as N	<0.016	<0.016	<0.015	<0.031	0.36	<0.023	----	----	----	-----	-----
Sulfate	0.16	0.18	2.9	0.68	0.83	<0.12	----	----	----	-----	-----
Total Alkalinity	----	----	220	260	240	340	310	----	270	-----	290
Total Organic Carbon	----	----	9	12	10	14	----	----	----	-----	-----
pH	6.44	----	6.96	-94.2	6.89	6.75	6.66	6.79	6.81	6.98	6.6
Conductivity (mS/cm)	391	----	330	343	350	0.404	884	925	880	505	730
Temperature (C)	10.49	----	11.21	12.13	10.58	11.73	8.2	10.1	7.8	11.7	9.5
ORP (mV)	-78.3	----	-73	-94.2	-56.7	118.6	-7	-13	-13	-55	-15
Dissolved Oxygen (mg/L)	1.43	----	3.6	0.18	0.75	1.09	1.0	1.5	1.0	2.0	2.5

Note: Please see notes provided at the end of this table.

Table 1
4S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	10/28/2010	10/27/2011	4/18/2012	5/17/2013	10/29/2013	4/28/2014	Duplicate 4/28/2014	10/28/2014	10/13/2015	Duplicate 10/13/2015
1,2,4-Trimethylbenzene	**800**	280	89	**511**	**707**	295	296	261	401	341
1,3,5-Trimethylbenzene	**49**	<1.0	<0.23	18.5	6.9	4.6	4.1	2.5	<1.2	<1.2
Acetone	----	----	----	<2.6	<10.4	<7.4	<14.8	<7.4	<7.4	<7.4
Benzene	<2.0	<1.0	<0.12	<0.50	<2.0	<1.2	<2.5	<1.2	<1.2	<1.2
n-Butylbenzene	32	5.6	<0.21	----	6.3	4.7	5.2	6.3	6.1	5.5
sec-Butylbenzene	18	14	5.7	----	21.7	14.5	16.0	23.4	21.1	19.3
tert-Butylbenzene	<2.0	1.7	<0.24	---	2.2	1.6 J	1.8 J	3.0	2.4	2.2
Ethylbenzene	5.8	<2.5	<0.14	1.1	7.2	<1.2	<2.5	<1.2	<1.2	<1.2
Hexachlorobutadiene	<5.0	<2.5	<0.45	----	----	----	----	----	<5.3	<5.3
Isopropylbenzene	9.8	7.1	1.5	----	19.4	7.2	7.7	12.7	10.7	9.8
p-Isopropyltoluene	57	8.9	3.0	----	10.7	8.6	9.9	11.2	12.0	11.5
Methylene chloride	<10	<5.0	<0.63	<0.36	<1.4	<0.58	<1.2	<0.58	<0.58	<0.58
Naphthalene	49	3.3	<0.24	4.5	18.2	<6.2	<12.5	<6.2	<6.2	<6.2
n-Propylbenzene	30	14	3.6	----	31.1	14.5	15.8	15.4	18.4	17.4
Xylenes (total)	13	5.6	0.91	5.2	14.0	<3.8	<7.5	<3.8	<3.8	<3.8
Metals, mg/L										
Arsenic	0.0039	0.0037	0.0032	<0.0044	0.0071	<0.0072	-----	<0.0072	<0.0072	-----
Barium	0.24	0.21	0.170	0.261	0.274	0.214	-----	0.223	0.223	-----
Cadmium	<0.00012	<0.00012	<0.00010	0.00059	<0.00038	<0.00060	-----	<0.00060	<0.00060	-----
Cobalt	<0.00061	<0.00016	0.00019	<0.00085	<0.00085	<0.00094	-----	<0.00094	<0.00094	-----
Iron	**8.0**	**7.0**	**5.3**	**7.98**	**10**	**6.82**	-----	**7.86**	**7.05**	-----
Lead	<0.00061	0.00013	0.00025	<0.0012	<0.0012	<0.0030	-----	<0.0030	<0.0030	-----
Manganese	**1.3**	**1.2**	**1.1**	**1.2**	**0.949**	**0.778**	-----	**0.876**	**0.730**	-----
Mercury	<0.000065	<0.000070	<0.00070	<0.00010	<0.00010	<0.00010	-----	<0.00010	<0.00010	-----
Vanadium	<0.00061	<0.00066	0.00044	0.0022	<0.0012	<0.0020	-----	<0.0020	0.0026	-----
Dissolved Gases, ug/L										
Ethane	-----	-----	-----	----	----	----	-----	-----	-----	-----
Ethene	-----	-----	-----	----	----	----	-----	-----	-----	-----
Methane	-----	-----	-----	----	----	----	-----	-----	-----	-----
Natural Attenuation Parameters, mg/L										
Chloride	-----	-----	7.4	6.1	-----	15.6	-----	-----	-----	-----
Nitrate as N	-----	-----	-----	----	-----	----	-----	-----	-----	-----
Sulfate	-----	-----	-----	4.4	-----	3.6	-----	-----	-----	-----
Total Alkalinity	-----	-----	390	290	-----	271	-----	-----	165	-----
Total Organic Carbon	-----	-----	-----	----	-----	----	-----	-----	-----	-----
pH	7.37	7.8	7.30	6.69	6.96	7.15	-----	6.90	7.01	-----
Conductivity (mS/cm)	562	670	630	0.431	0.446	0.431	-----	0.406	0.374	-----
Temperature (C)	-10.0	9.6	12.6	9.58	11.61	9.64	-----	11.13	10.64	-----
ORP (mV)	-292.6	-113	-22.4	-66.4	-48.7	-127	-----	-55.3	-74.7	-----
Dissolved Oxygen (mg/L)	0.0	0.0	5.0	1.3	0.71	1.00	-----	0.17	0.54	-----

Note: Please see notes provided at the end of this table.

Table 1
4S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/27/2016	Duplicate 4/27/2016	10/3/2016	4/19/2017	PAL	ES
1,2,4-Trimethylbenzene	**976**	**871**	**1,650**	**913**	96	480
1,3,5-Trimethylbenzene	<5.0	<5.0	<5.0	<5	96	480
Acetone	<29.5	<29.5	<29.5	<29.5	1800	9000
Benzene	<5.0	<5.0	<5.0	<5	0.5	5
n-Butylbenzene	<5.0	<5.0	16.7	9.4	-----	-----
sec-Butylbenzene	30.8	30.2	40.9	22.8	-----	-----
tert-Butylbenzene	4.2	3.2	4.7	2.2	-----	-----
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	140	700
Hexachlorobutadiene	<21.1	<21.1	<21.1	<21.1	-----	-----
Isopropylbenzene	17.5	16.5	23.6	13.5	-----	-----
p-Isopropyltoluene	25.5	25.2	32.5	17.9	-----	-----
Methylene chloride	<2.3	<2.3	<2.3	<2.3	0.5	5
Naphthalene	<25.0	<25.0	<25.0	<25	10	100
n-Propylbenzene	43.2	39.4	<5.0	38	-----	-----
Xylenes (total)	<15.0	<15.0	19.9	<15	400	2,000
Metals, mg/L						
Arsenic	<0.0072	-----	**0.0118**	<0.0054	0.001	0.01
Barium	0.251	-----	0.314	0.333	0.4	2
Cadmium	<0.00060	-----	<0.00060	<0.0013	0.0005	0.005
Cobalt	<0.00094	-----	<0.00094	<0.0014	0.008	0.04
Iron	**9.83**	-----	**13.4**	**14.5**	0.15	0.3
Lead	<0.0030	-----	<0.0030	<0.0043	0.0015	0.015
Manganese	**0.96**	-----	**0.934**	**1.12**	0.060	0.300
Mercury	<0.00018	-----	<0.00013	<0.00013	0.0002	0.002
Vanadium	<0.0020	-----	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L						
Ethane	-----	-----	-----	-----	----	----
Ethene	-----	-----	-----	-----	----	----
Methane	-----	-----	-----	-----	----	----
Natural Attenuation Parameters, mg/L						
Chloride	-----	-----	-----	-----	125	250
Nitrate as N	-----	-----	-----	-----	2	10
Sulfate	-----	-----	-----	-----	125	250
Total Alkalinity	271	-----	243	263	----	----
Total Organic Carbon	-----	-----	-----	-----	----	----
pH	7.31	-----	6.49	6.89	----	----
Conductivity (mS/cm)	0.398	-----	0.395	0.41	----	----
Temperature (C)	9.79	-----	11.97	9.86	----	----
ORP (mV)	-86.9	-----	-73.4	-87.5	----	----
Dissolved Oxygen (mg/L)	0.37	-----	0.09	0.88	----	----

Note: Please see notes provided at the end of this table.

Table 1
5S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/12/2002	4/22/2003	10/7/2003	4/14/2004	Duplicate 4/14/2004	9/23/2004	Duplicate 9/23/2004	12/2/2004	Duplicate 12/2/2004	3/10/2005	6/10/2005
1,2,4-Trimethylbenzene	210	180	**750**	67	51	210	150	**1300**	**1200**	**490**	**1300**
1,3,5-Trimethylbenzene	47	38	**200**	2.7	2.4	19	15	**350**	**330**	**48**	**390**
2-Butanone	< 4.5	< 3.4	< 24	< 1.2	< 0.72	<2.2	<3	<20	<20	<4.9	<16
n-Butylbenzene	----	----	----	----	----	----	----	----	----	----	----
sec-Butylbenzene	----	----	----	----	----	----	----	----	----	----	----
tert-Butylbenzene	----	----	----	----	----	----	----	----	----	----	----
Acetone	< 8.5	< 6.3	< 44	< 2.2	< 1.3	<4.2	<5.7	<37	<37	<9.2	<31
Benzene	< 2.8	< 2.1	< 13	1.5	0.56	<1.3	<1.7	<11	<11	<2.8	<9.2
Ethylbenzene	6.2	5.1	29	1.5	1.2	5.9	5.7	60	54	17	57
Isopropylbenzene	----	----	----	----	----	----	----	----	----	----	----
p-Isopropyltoluene	----	----	----	----	----	----	----	----	----	----	----
Methylene chloride	3.9	< 1.7	< 19	< 0.93	< 0.56	<1.1	<1.5	**41**	**41**	<2.4	<7.9
Naphthalene	6.2	5.4	28	2.2	1.6	7.7	14	<7.5	<7.5	19	41
n-Propylbenzene	----	----	----	----	----	----	----	----	----	----	----
Toluene	< 3	< 2.2	< 11	< 0.57	< 0.34	<0.97	<1.3	<8.5	<8.5	<2.1	<7.1
Xylenes (total)	12	13	150	2	1.8	120	94	160	160	61	250
Metals, mg/L											
Arsenic	0.0098	**0.011**	**0.022**	**0.01**	**0.012**	0.0053	0.0047	**0.012**	**0.012**	**0.0151**	**0.0231**
Barium	0.18	0.28	0.27	0.27	0.28	0.29	0.29	0.31	0.29	0.391	0.5
Cadmium	< 0.00028	< 0.00028	< 0.00036	< 0.00028	< 0.00028	<0.00028	<0.00028	0.00032	0.00033	<0.00028	<0.00028
Cobalt	0.0025	0.0041	0.0058	0.0045	0.0041	0.0056	0.0054	0.0094	0.0091	0.0086	0.0126
Iron	**10.2**	**19.4**	**30.5**	**11.2**	**11.7**	**15.9**	**16.3**	**34.7**	**31.9**	**39.7**	**60.7**
Lead	< 0.0016	< 0.0016	< 0.0023	< 0.0017	< 0.0017	<0.0017	0.003	<0.0017	<0.0017	<0.0017	<0.0017
Manganese	**1.6**	**2**	**2.3**	**1.3**	**1.3**	**2.5**	**2.6**	**3.3**	**3.1**	**2.83**	**3.86**
Mercury	0.000088	< 0.000087	0.000075	< 0.000029	< 0.000029	<0.000029	<0.000029	<0.000029	<0.000029	<0.000029	0.00009
Vanadium	< 0.00067	< 0.00067	< 0.00096	< 0.00071	< 0.00071	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	0.0013
Dissolved Gases, ug/L											
Ethane	< 3	< 0.3	< 3	< 1.4	< 2.8	---	---	---	---	----	----
Ethene	< 2.9	< 0.29	< 2.9	< 1.3	< 2.6	---	---	---	---	----	----
Methane	130	230	910	1100	490	---	---	---	---	----	----
Natural Attenuation Parameters, mg/L											
Chloride	5.8	5.7	4.3	4.6	4.5	---	---	5	5	----	4.8
Nitrate as N	0.1	0.62	0.02	0.94	1.3	---	---	0.47	0.45	----	<0.016
Sulfate	0.34	3.3	0.16	1.8	2.3		---	0.77	0.81	----	0.2
Total Alkalinity	140	160	180	160	160	---	---	---	---	----	----
Total Organic Carbon	5	4	9	6	6	---	---	---	---	----	----
pH	6.99	7.12	6.65	---	---	6.1	---	6.42	---	7.12	6.08
Conductivity (mS/cm)	0.333	0.379	0.425	---	---	0.645	---	0.549	---	0.489	340
Temperature (C)	12.4	9.66	12.77	---	---	13.51	---	12.73	---	10.51	10.5
ORP (mV)	106	117	151	---	---	192	---	178	---	183	-75.2
Dissolved Oxygen (mg/L)	1.75	0.74	5.12	---	---	2.27	---	1.17	---	2.51	0.76

Note: Please see notes provided at the end of this table.

Table 1
5S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	Duplicate 6/10/2005	3/23/2006	9/7/2006	3/22/2007	9/11/2007	4/9/2008	10/8/2008	4/14/2009	10/28/2009	4/28/2010	10/28/2010
1,2,4-Trimethylbenzene	**1200**	**670**	**710**	**1200**	**1100**	460	**1700**	460	**1100**	430	**1400**
1,3,5-Trimethylbenzene	**370**	**73**	**110**	**120**	**160**	14	**290**	16	**19**	1.6	**21**
2-Butanone	<16	10	<7.1	<7.8	<28	----	----	----	----	----	----
n-Butylbenzene	----	----	----	----	----	6.6	11	<3.2	9.7	1.7	6.6
sec-Butylbenzene	----	----	----	----	----	12	20	10	19	7.9	16
tert-Butylbenzene	----	----	----	----	----	11	<0.20	9.1	<0.20	7.3	19
Acetone	<31	38	<13	<15	<55	----	----	----	----	----	----
Benzene	<9.2	<4.4	<4	<4.4	<6.5	<0.20	<0.20	<3.2	<0.20	<1.0	<1.6
Ethylbenzene	51	41	19	23	10	11	39	<8.0	10	<2.5	22
Isopropylbenzene	----	----	----	----	----	42	60	25	70	30	57
p-Isopropyltoluene	----	----	----	----	----	3.5	16	<3.2	12	2.8	8.6
Methylene chloride	<7.9	<3.8	<3.5	<3.8	<16	<1.0	<1.0	<16	<1.0	<5.0	<8.0
Naphthalene	40	48	42	44	32	26	41	24	38	23	46
n-Propylbenzene	----	----	----	----	----	52	94	38	110	43	79
Toluene	<7.1	<3.4	<3.1	<3.4	<6.5	0.88	0.54	<8.0	<0.50	<2.5	<4.0
Xylenes (total)	240	53	83	30	40	10	180	<8.0	33	8.5	40
Metals, mg/L											
Arsenic	**0.0227**	**0.0137**	**0.0138**	**0.0121**	0.0062	**0.015**	0.009	**0.011**	0.008	**0.015**	**0.015**
Barium	0.519	0.392	0.382	0.383	0.281	0.28	0.30	0.29	0.20	0.28	0.45
Cadmium	<0.00028	<0.00042	<0.00042	<0.00042	<0.00042	0.00002	<0.00012	<0.00012	<0.00061	<0.00061	0.00012
Cobalt	0.0127	0.0099	0.0105	0.0109	0.0056	0.0082	0.0038	0.0048	0.0048	0.0051	0.0062
Iron	**59.1**	**39.2**	**40.7**	**39.1**	**14.6**	**370**	**21**	**17**	**15**	**23**	**32**
Lead	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.0001	0.00028	<0.00012	<0.00061	<0.00061	<0.00061
Manganese	**3.83**	**3.98**	**4.87**	**3.79**	**1.85**	**2.8**	**2.0**	**1.9**	**1.7**	**2.0**	**2.2**
Mercury	0.000058	<0.00009	<0.00009	<0.00009	<0.00009	<0.000065	<0.000065	<0.000065	<0.000065	<0.000065	<0.000065
Vanadium	<0.00071	<0.0019	<0.0019	<0.0019	<0.0019	0.0012	<0.00012	0.00028	<0.00061	<0.00061	<0.00061
Dissolved Gases, ug/L											
Ethane	----	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L											
Chloride	4.6	6	2.5	5.9	4.2	2.2	----	6.6	----	13	----
Nitrate as N	<0.016	0.18	<0.031	0.63	0.2	----	----	----	----	----	----
Sulfate	0.18	0.52	2.5	1	3.6	----	----	----	----	----	----
Total Alkalinity	----	200	250	220	280	200	----	270	----	260	----
Total Organic Carbon	----	9	13	9	7	----	----	----	----	----	----
pH	----	6.76	6.59	6.71	6.49	5.87	6.10	5.93	6.89	6.8	7.29
Conductivity (mS/cm)	----	320	365	339	0.367	547	530	610	407	380	1016
Temperature (C)	----	10.69	12.64	9.83	13.27	5.8	9.3	6.3	11.5	10.1	-12.7
ORP (mV)	----	-59.2	-88.8	-53.5	168.1	+23	+30	+29	-42	+40	109.2
Dissolved Oxygen (mg/L)	----	0.97	0.62	0.65	0.53	1.5	1.0	1.5	2.0	2.0	1.95

Note: Please see notes provided at the end of this table.

Table 1
5S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	10/27/2011	Duplicate 10/27/2011	4/18/2012	Duplicate 4/18/2012	5/15/2013	Duplicate 5/15/13	10/29/2013	Duplicate 10/29/13	4/28/2014	Duplicate 4/28/2014	10/28/2014
1,2,4-Trimethylbenzene	340	**710**	**570**	330	**1,120**	**1,060**	**1,510**	**1,380**	**922**	**1,340**	**1,560**
1,3,5-Trimethylbenzene	11	**39**	**<0.46**	<0.23	<2.5	<2.5	9.1	7.4	<10.0	<5.0	<10.0
2-Butanone	----	----	----	----	<2.7	<2.7	<27.0	<27.0	<59.6	<29.8	<59.6
n-Butylbenzene	3.6	5.5	<0.42	<0.21	-----	-----	5.2	5.3	8.0	13.0	13.2
sec-Butylbenzene	9.3	12	7.1	6.7	-----	-----	9.1	9.9	<43.7	<21.9	<43.7
tert-Butylbenzene	9.9	12	<0.48	<0.24	-----	-----	11.4	12.1	13.4	14.9	22.6
Acetone	----	----	----	----	3.7	4.0	<25.9	<25.9	<59.1	<29.5	<59.1
Benzene	<0.80	<2.0	<0.24	<0.12	<0.50	<0.50	<5.0	<5.0	<10.0	<5.0	<10.0
Ethylbenzene	<2.0	<5.0	<0.28	<0.14	<0.50	<0.50	<5.0	<5.0	<10.0	<5.0	<10.0
Isopropylbenzene	30	34	18	16	---	---	34.5	33.5	39.0	42.1	69.6
p-Isopropyltoluene	3.5	6.2	2.9	2.1	---	---	10.4	9.7	5.8	7.7	14.7
Methylene chloride	<4.0	<10	<1.3	<0.63	<0.36	<0.36	<3.6	<3.6	<4.7	<2.3	<4.7
Naphthalene	19	33	21	21	38.1	35.2	25.4	<25.0	<50.0	38.8	52.0
n-Propylbenzene	32	48	25	22	----	----	78.0	73.6	64.5	73.9	101
Toluene	<2.0	<5.0	<0.30	0.24	<0.44	<0.44	<4.4	<4.4	<10.0	<5.0	<10.0
Xylenes (total)	30	56	5.9	4.9	7.1	6.8	15.1	13.7	<30.0	<15.0	56.9
Metals, mg/L											
Arsenic	**0.014**	----	0.0098	----	**0.016**	----	**0.0111**	----	**0.0154**	----	**0.0104**
Barium	0.25	----	0.180	----	0.296	----	0.271	----	0.254	----	0.269
Cadmium	<0.00012	----	<0.00010	----	0.00055	----	<0.00038	----	<0.00060	----	<0.00060
Cobalt	0.0041	----	0.0034	----	0.0049	----	0.0065	----	0.0049	----	0.0047
Iron	**17**	----	**14**	----	**26.1**	----	**12.2**	----	**19.6**	----	**21.7**
Lead	0.00025	----	<0.00016	----	<0.0012	----	0.0015	----	<0.0030	----	<0.0030
Manganese	**1.9**	----	**1.4**	----	**1.84**	----	**1.09**	----	**1.46**	----	**1.48**
Mercury	<0.000070	----	<0.000070	----	<0.00010	----	<0.00010	----	<0.00010	----	<0.00010
Vanadium	<0.00066	----	<0.00034	----	0.0021	----	<0.0012	----	<0.0020	----	<0.0020
Dissolved Gases, ug/L											
Ethane	----	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L											
Chloride	----	----	5.4	----	8.0	----	----	----	11.1	----	----
Nitrate as N	----	----	----	----	---	----	----	----	----	----	----
Sulfate	----	----	----	----	2.8	----	----	----	2.6	----	----
Total Alkalinity	----	----	140	----	225	----	----	----	246	----	----
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----	----
pH	7.59	----	7.38	----	6.63	----	6.72	----	6.78	----	6.14
Conductivity (mS/cm)	470	----	320	----	0.369	----	0.469	----	0.407	----	0.420
Temperature (C)	10.4	----	14.9	----	9.4	----	12.52	----	9.21	----	11.42
ORP (mV)	132	----	57.7	----	-65.6	----	-25.5	----	-84.1	----	-54.0
Dissolved Oxygen (mg/L)	2.5	----	3.0	----	1.88	----	0.82	----	1.65	----	0.30

Note: Please see notes provided at the end of this table.

Table 1
5S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	10/13/2015	Duplicate 10/13/2015	4/25/2016	Duplicate 4/25/2016	10/3/2016	Duplicate 10/3/2016	4/18/2017	Duplicate 4/18/2017	PAL	ES
1,2,4-Trimethylbenzene	**1,510**	**1,860**	**1,120**	**1,060**	**1,220**	**1,210**	441	----	96	480
1,3,5-Trimethylbenzene	<10.0	<5.0	<5.0	<2.5	<5.0	<2.5	<5.0	----	96	480
2-Butanone	<59.6	<29.8	<29.8	<14.9	<29.8	<14.9	<29.8	----	90	460
n-Butylbenzene	10.4	11.5	<5.0	<2.5	10.1	10.5	<5.0	----	-----	-----
sec-Butylbenzene	<43.7	<21.9	<21.9	13.7	<21.9	14.6	<21.9	----	-----	-----
tert-Butylbenzene	17.1	18.6	17.2	16.9	16.9	18.3	5.9 J	----	-----	-----
Acetone	<59.1	<29.5	<29.5	<14.8	<29.5	<14.8	<29	<14.8	1800	9000
Benzene	<10.0	<5.0	<5.0	<2.5	<5.0	<2.5	<5	<2.5	0.5	5
Ethylbenzene	<10.0	<5.0	<5.0	<2.5	<5.0	<2.5	<5	<2.5	140	700
Isopropylbenzene	54.9	60.8	42.8	42.7	35.8	40.6	16.2	16.3	-----	-----
p-Isopropyltoluene	12.0	16.3	8.8	8.1	7.8	8.3	<5	3.3J	-----	-----
Methylene chloride	<4.7	<2.3	<2.3	<1.2	<2.3	<1.2	<2.3	<14.9	0.5	5
Naphthalene	<50.0	58.5	<25.0	21.6	29.1	34	<25	<12.5	10	100
n-Propylbenzene	114	118	73.1	70.9	74	80	22.6	23.3	-----	-----
Toluene	<10.0	<5.0	<5.0	<2.5	<5.0	<2.5	<5	<2.5	160	800
Xylenes (total)	51.1	58.5	20.1	20.1	20.8	21.2	<15	<7.5	400	2,000
Metals, mg/L										
Arsenic	**0.0109**	----	0.0117	----	0.0201	----	**0.015J**	----	0.001	0.01
Barium	0.240	----	0.191	----	0.207	----	0.198	----	0.4	2
Cadmium	<0.00060	----	<0.00060	----	<0.00060	----	<0.0013	----	0.0005	0.005
Cobalt	0.0033	----	0.0030	----	0.0031	----	0.0025J	----	0.008	0.04
Iron	**17.3**	----	**16.0**	----	**15.8**	----	**15.3**	----	0.15	0.3
Lead	<0.0030	----	<0.0030	----	<0.0030	----	<0.0043	----	0.0015	0.015
Manganese	**1.42**	----	**1.24**	----	**1.07**	----	**1.04**	----	0.060	0.300
Mercury	<0.00010	----	<0.00018	----	<0.00013	----	<0.00013	----	0.0002	0.002
Vanadium	0.0044	----	<0.0020	----	<0.0020	----	<0.0022	----	0.006	0.03
Dissolved Gases, ug/L										
Ethane	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L										
Chloride	----	----	----	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	----	----	----	----	----	----	125	250
Total Alkalinity	238	----	180	----	184	----	195	----	----	----
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----
pH	6.72	----	7.11	----	6.66	----	6.94	----	----	----
Conductivity (mS/cm)	0.412	----	0.305	----	0.336	----	0.323	----	----	----
Temperature (C)	11.11	----	9.53	----	12.61	----	9.59	----	----	----
ORP (mV)	-75.0	----	-93.1	----	-80.1	----	-101.6	----	----	----
Dissolved Oxygen (mg/L)	0.83	----	0.68	----	0.11	----	0.89	----	----	----

Note: Please see notes provided at the end of this table.

Table 1
MW-6S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/12/2002	10/7/2003	12/2/2004	6/8/2005	3/21/2007	4/9/2008	4/14/2009	4/28/2010	4/18/2012	5/16/2013	4/29/2014
1,1-Dichloroethane	0.55	0.71	0.29	0.31	<0.21	<0.50	<0.50	<0.50	<0.24	<0.28	<0.16
1,2,4-Trimethylbenzene	< 0.37	< 0.14	<0.12	<0.12	0.27	1.6	6.4	<0.20	<0.22	----	<0.50
Acetone	2.6	< 0.66	<0.74	<0.74	<0.74	----	----	----	----	3.0	<3.0
sec-Butylbenzene	----	----	----	----	----	0.84	8.3	4.9	<0.19	----	<2.2
tert-Butylbenzene	----	----	----	----	----	3.7	15	14	1.9	----	5.3
Chloroethane	< 0.29	< 0.22	<0.24	<0.24	<0.24	1.2	<1.0	<1.0	<0.33	<0.44	<0.37
cis-1,2-Dichloroethene	< 0.35	0.59	0.36	0.49	0.33	<0.50	0.55	<0.50	<0.22	<0.42	0.27
Isopropylbenzene	----	----	----	----	----	0.32	3.7	<0.20	<0.21	----	0.14
Methylene chloride	2.2	< 0.28	0.54	<0.19	<0.19	<1.0	<1.0	<1.0	<0.63	----	<0.23
Toluene	< 0.39	< 0.17	<0.17	<0.17	<0.17	0.35	<0.50	<0.50	<0.15	<0.44	<0.50
Trichloroethene	< 0.42	0.37	<0.28	<0.28	<0.28	<0.20	<0.20	<0.20	<0.18	<0.43	<0.33
Metals, mg/L											
Arsenic	< 0.0021	< 0.0029	<0.0026	<0.0026	<0.0043	0.00091	0.00091	0.001	0.00093	<0.0044	<0.0072
Barium	0.17	0.13	0.22	0.265	0.191	0.21	0.19	0.24	0.210	0.198	0.211
Cadmium	< 0.00028	< 0.00036	<0.00028	<0.00028	<0.00042	0.00012	<0.00012	<0.00061	<0.00010	<0.00038	<0.00060
Calcium	----	----	----	----	----	----	----	----	----	50.6	57.2
Cobalt	0.0022	< 0.0011	0.0025	0.0019	0.0016	0.0012	0.0011	0.0021	0.0017	0.0019	0.0022
Iron	0.065	< 0.044	0.25	0.16	<0.032	<0.0022	0.21	**0.54**	0.150	0.188	0.200
Lead	< 0.0016	< 0.0023	<0.0017	<0.0017	<0.0017	0.00016	<0.00012	0.0014	<0.00016	<0.0012	<0.0030
Magnesium	----	----	----	----	----	----	----	----	----	19.7	21.4
Manganese	**2.7**	**2.7**	**3.6**	**4.68**	**2.72**	**2.7**	**2.8**	**3.8**	**4.5**	**3.5**	**3.99**
Mercury	< 0.000087	< 0.000067	<0.000029	<0.000029	<0.00009	<0.000065	<0.000065	<0.000065	<0.000070	<0.00010	<0.00010
Potassium	----	----	----	----	----	----	----	----	----	2.09	2.08
Sodium	----	----	----	----	----	----	----	----	----	11.9	6.82
Vanadium	< 0.00067	< 0.00096	0.00071	<0.00071	<0.0019	0.0013	0.00031	<0.00061	0.00044	0.0047	<0.0040
Dissolved Gases, ug/L											
Ethane	< 0.3	< 0.3	---	----	----	----	----	----	----	----	----
Ethene	< 0.29	< 0.29	---	----	----	----	----	----	----	----	----
Methane	2.9	7.9	---	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L											
Chloride	6.7	5.6	11	12.7	8.8	26	14	7.5	23	11.6	14.0
Nitrate as N	< 0.0076	< 0.019	<0.016	<0.016	<0.031	----	----	----	----	----	----
Sulfate	4	3.6	9.7	0.99	0.86	----	----	----	----	5.4	2.5
Total Alkalinity	160	150	---	----	210	230	290	300	260	186	244
Total Organic Carbon	6	5	---	----	4	----	----	----	----	----	----
pH	7.45	7.37	7.25	6.97	7.3	7.10	7.13	6.9	7.67	6.99	7.05
Conductivity (mS/cm)	0.342	0.307	0.506	316	274	562	579	490	420	0.275	0.364
Temperature (C)	11.1	10.28	11.4	9.17	9.53	7.3	7.4	8.4	11.7	7.42	8.41
ORP (mV)	113	127	191	31	69.5	+73	+110	+110	97.1	2.7	-23.7
Dissolved Oxygen (mg/L)	2.86	3.08	0.84	7.47	0.66	1.5	2.0	2.5	4.0	0.3	0.65

Note: Please see notes provided at the end of this table.

Table 1
MW-6S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	10/14/2015	4/26/2016	4/20/2017	PAL	ES
1,1-Dichloroethane	<0.24	<0.24	<0.24	85	850
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	96	480
Acetone	6.3	<3.0	<3.0	1800	9000
sec-Butylbenzene	<2.2	3.7	4.5	-----	-----
tert-Butylbenzene	1.0	7.3	9	-----	----
Chloroethane	1.2	<0.37	<0.37	80	400
cis-1,2-Dichloroethene	0.41	0.4	<0.26	7	70
Isopropylbenzene	<0.14	1.5	0.23	-----	-----
Methylene chloride	<0.23	<0.23	<0.23	0.5	5
Toluene	<0.50	<0.50	<0.50	160	800
Trichloroethene	<0.33	<0.33	<0.33	0.5	5
Metals, mg/L					
Arsenic	<0.0072	<0.0072	0.0056	0.001	0.01
Barium	0.231	0.253	0.347	0.4	2
Cadmium	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	----	----	----	----
Cobalt	0.0018	0.0027	0.0035	0.008	0.04
Iron	0.166	0.213	**0.366**	0.15	0.3
Lead	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	----	----	----	----
Manganese	**3.72**	**4.02**	**5.4**	0.060	0.300
Mercury	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	----	----	----	----	----
Sodium	----	----	----	----	----
Vanadium	0.0114	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L					
Ethane	----	----	----	----	----
Ethene	----	----	----	----	----
Methane	----	----	----	----	----
Natural Attenuation Parameters, mg/L					
Chloride	----	----	----	125	250
Nitrate as N	----	----	----	2	10
Sulfate	----	----	----	125	250
Total Alkalinity	223	248	327	----	----
Total Organic Carbon	----	----	----	----	----
pH	7.13	7.34	6.91	----	----
Conductivity (mS/cm)	0.391	0.385	0.452	----	----
Temperature (C)	9.81	8.70	8.50	----	----
ORP (mV)	-10.2	-8.5	12.7	----	----
Dissolved Oxygen (mg/L)	0.22	0.22	0.70	----	----

Note: Please see notes provided at the end of this table.

Table 1
6M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/12/2002	10/7/2003	12/2/2004	6/8/2005	3/21/2007	4/9/2008	4/14/2009	10/28/2009	4/28/2010	10/28/2010	4/18/2012
1,1-Dichloroethane	< 0.3	0.61	0.27	0.21	<0.21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.24
1,2,4-Trimethylbenzene	< 0.37	< 0.14	0.23	26	<0.12	6.5	<0.20	<0.20	<0.20	<0.20	<0.22
1,3,5-Trimethylbenzene	< 0.4	< 0.18	<0.16	<0.16	<0.16	<0.20	<0.20	<0.20	<0.20	<0.20	<0.23
Acetone	2.1	< 0.66	<0.74	<0.74	<0.74	----	----	----	----	----	----
sec-Butylbenzene	----	----	----	----	----	0.76	<0.25	<0.25	5.0	1.3	<0.19
tert-Butylbenzene	----	----	----	----	----	1.7	<0.20	<0.20	5.8	2.3	<0.24
Chloromethane	< 0.49	< 0.26	<0.14	<0.14	<0.14	<0.20	----	----	<0.30	<0.30	<0.24
cis-1,2-Dichloroethene	< 0.35	0.42	0.35	0.42	<0.21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.22
Ethylbenzene	< 0.41	< 0.19	<0.19	0.22	<0.19	<0.50	<0.50	<0.50	<0.50	<0.50	<0.14
Isopropylbenzene	----	----	----	----	----	1.1	<0.20	<0.20	4.4	<0.20	<0.21
Methylene chloride	2.1	< 0.28	0.44	<0.19	<0.19	<1.0	<1.0	<1.0	<1.0	<1.0	<0.63
Naphthalene	< 0.42	< 0.16	<0.15	<0.15	<0.15	<0.25	<0.25	0.34	<0.25	<0.25	<0.24
Toluene	< 0.39	< 0.17	<0.17	<0.17	<0.17	0.69	<0.50	<0.50	<0.50	<0.50	<0.15
Metals, mg/L											
Arsenic	0.0024	< 0.0029	<0.0026	<0.0026	<0.0043	0.0022	0.00086	0.0011	0.0017	0.0013	0.00080
Barium	0.75	0.89	0.77	1.07	0.744	1.7	0.38	0.93	**2.3**	**2.2**	1.1
Cadmium	< 0.00028	< 0.00036	<0.00028	<0.00028	<0.00042	0.00001	<0.00012	<0.00061	<0.00061	<0.00012	<0.00010
Calcium	----	----	----	----	----	----	----	----	----	----	----
Cobalt	< 0.00074	< 0.0011	<0.00096	<0.00096	<0.0012	0.0027	0.00023	0.00085	0.003	0.0022	0.00020
Iron	< 0.042	0.12	<0.049	<0.049	<0.032	<0.0022	<0.15	0.25	**0.58**	0.23	<0.037
Lead	< 0.0016	0.0024	0.0023	<0.0017	<0.0017	0.00007	0.00024	0.001	<0.00061	0.00072	0.00030
Magnesium	----	----	----	----	----	----	----	----	----	----	----
Manganese	**1.7**	**2.8**	**2**	**2.48**	**1.9**	**3.7**	0.008	**0.99**	**4**	**3.8**	0.160
Mercury	0.000097	< 0.000067	<0.000029	0.000055	<0.00009	<0.000065	<0.000065	<0.000065	<0.000065	<0.000065	<0.000070
Potassium	----	----	----	----	----	----	----	----	----	----	----
Sadium	----	----	----	----	----	----	----	----	----	----	----
Vanadium	< 0.00067	< 0.00096	<0.00071	<0.00071	<0.0019	0.0015	0.00017	<0.00061	<0.00061	<0.00061	<0.00034
Dissolved Gases, ug/L											
Ethane	< 0.3	< 0.3	---	----	----	----	----	----	----	----	----
Ethene	< 0.29	< 0.29	---	----	----	----	----	----	----	----	----
Methane	1.1	6.6	---	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L											
Chloride	6	4.7	5	7.4	5.5	16	8.2	----	27	----	15
Nitrate as N	< 0.0076	0.02	<0.016	<0.016	<0.031	----	----	----	----	----	----
Sulfate	0.42	1.8	0.2	0.21	<0.12	----	----	----	----	----	----
Total Alkalinity	100	140	---	----	130	310	170	----	350	----	150
Total Organic Carbon	4	3	---	----	4	----	----	----	----	----	----
pH	7.49	7.44	7.64	7.53	7.75	7.41	7.31	6.93	6.8	7.77	8.26
Conductivity (mS/cm)	0.227	0.289	0.3	199	178	530	551	460	570	476	290
Temperature (C)	10.5	10.71	10.25	10.51	10.13	9.5	8.8	11.1	8.1	-11.1	11.3
ORP (mV)	96	140	195	25.4	77.9	+95	+175	-50	+81	-161.8	71.3
Dissolved Oxygen (mg/L)	0.42	4.41	3.22	1.42	1.67	3.0	4.0	4.0	2.0	0.5	3.0

Note: Please see notes provided at the end of this table.

Table 1
6M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	5/16/2013	4/29/2014	10/14/2015	4/26/2016	10/4/2016	4/20/2017	PAL	ES
1,1-Dichloroethane	<0.28	<0.16	<0.24	<0.41	<0.41	<0.24	85	850
1,2,4-Trimethylbenzene	<0.57	<0.50	<0.50	<0.50	<0.50	<0.50	96	480
1,3,5-Trimethylbenzene	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	96	480
Acetone	<2.6	<3.0	15.7	<3.0	<3.0	<3	1800	9000
sec-Butylbenzene	----	<2.2	<2.2	<2.2	<2.2	<2.2	-----	-----
tert-Butylbenzene	----	<0.18	<0.18	<0.18	<0.18	<0.18	-----	-----
Chloromethane	<0.39	<0.50	0.65	<0.50	<0.50	<0.50	3	30
cis-1,2-Dichloroethene	<0.42	<0.26	<0.26	<0.26	<0.26	<0.26	7	70
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	140	700
Isopropylbenzene	---	<0.12	<0.14	<0.14	<0.14	<0.14	-----	-----
Methylene chloride	<0.36	<0.23	<0.23	<0.23	<0.23	<0.23	0.5	5
Naphthalene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	10	100
Toluene	<0.44	<0.50	<0.50	<0.50	<0.50	<0.50	160	800
Metals, mg/L								
Arsenic	<0.0044	<0.0072	<0.0072	<0.0072	0.0078	<0.0054	0.001	0.01
Barium	**2.28**	1.19	1.46	1.1	1.2	1.17	0.4	2
Cadmium	<0.00038	<0.00060	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	80.8	48.7	----	----	----	----	-----	-----
Cobalt	0.0029	0.0018	0.0017	0.0014	0.0016	0.0019	0.008	0.04
Iron	0.0236	0.0131	<0.0129	<0.0129	<0.0129	<0.0155	0.15	0.3
Lead	<0.0012	<0.0030	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	18.7	11.0	----	----	----	----	-----	-----
Manganese	**4.07**	**2.40**	**2.52**	**2.05**	**2.0**	**2.28**	0.060	0.300
Mercury	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	0.0002	0.002
Potassium	1.27	0.811	----	----	----	----	-----	-----
Sadium	9.48	5.96	----	----	----	----	-----	-----
Vanadium	0.0051	<0.0020	0.0075	<0.0020	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L								
Ethane	----	----	----	----	----	----	-----	-----
Ethene	----	----	----	----	----	----	-----	-----
Methane	----	----	----	----	----	----	-----	-----
Natural Attenuation Parameters, mg/L								
Chloride	29.5	19.3	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	2	10
Sulfate	2.3	2.7	----	----	----	----	125	250
Total Alkalinity	226	169	174	142	145	145	-----	-----
Total Organic Carbon	----	----	----	----	----	----	-----	-----
pH	7.44	7.53	7.53	7.81	6.86	7.61	-----	-----
Conductivity (mS/cm)	0.39	0.291	0.314	0.234	0.244	0.239	-----	-----
Temperature (C)	10.7	10.07	10.00	10.24	10.76	9.69	-----	-----
ORP (mV)	-12.4	-27.0	-23.9	-15.8	90.6	3.4	-----	-----
Dissolved Oxygen (mg/L)	0.3	0.57	0.33	0.11	0.06	0.72	-----	-----

Note: Please see notes provided at the end of this table.

Table 1
7M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/18/2012	5/16/2013	4/29/2014	10/13/2015	4/25/2016	4/19/2017	PAL	ES
Vinyl chloride	**34**	----	----	----	----	----	0.02	0.2
Metals, mg/L								
Arsenic	0.00260	0.0054	<0.0072	<0.0072	<0.0072	<0.0054	0.001	0.01
Barium	0.190	0.366	0.284	0.376	0.341	0.272	0.4	2
Cadmium	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	68.6	56.9	----	----	----	----	----
Cobalt	<0.00013	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	**0.450**	**2.36**	**1.86**	**2.18**	**2.16**	**1.7**	0.15	0.3
Lead	<0.00016	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	17.2	14.4	----	----	----	----	----
Manganese	0.260	**0.777**	**0.631**	**0.810**	**0.766**	**0.634**	0.060	0.300
Mercury	<0.000070	<0.0001	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	----	1.38	1.08	----	----	----	----	----
Sodium	----	5.82	4.05	----	----	----	----	----
Vanadium	<0.00034	<0.0012	<0.0020	0.0025	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L								
Ethane	<0.49	----	----	----	----	----	----	----
Ethene	0.66	----	----	----	----	----	----	----
Methane	3.6	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L								
Chloride	2.0	5.0	7.8	----	----	----	125	250
Nitrate as N	2.7	----	----	----	----	----	2	10
Sulfate	2.0	7.4	8.0	----	----	----	125	250
Total Alkalinity	30	209	205	223	220	211	---	---
Total Organic Carbon	2.8	----	----	----	----	----	---	---
pH	8.33	7.16	7.82	7.64	7.85	7.61	---	---
Conductivity (mS/cm)	290	0.316	0.321	0.399	0.347	0.239	---	---
Temperature (C)	13.7	10.49	10.09	10.05	10.85	9.89	---	---
ORP (mV)	37.3	-122.4	-182.5	-129.3	-152.7	-135.1	---	---
Dissolved Oxygen (mg/L)	5.5	0.28	0.75	0.54	0.11	0.91	---	---

Note: Please see notes provided at the end of this table.

Table 1
8S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/11/2002	10/7/2003	12/2/2004	6/8/2005	3/21/2007	4/9/2008	4/14/2009
Acetone	2.2	< 0.66	<0.74	<0.74	1	----	----
Chlorobenzene	< 0.38	< 0.16	<0.2	<0.2	<0.2	<0.20	
tert-Butylbenzene	**----**	**----**	**----**	**----**	**----**	**----**	**----**
Methylene chloride	2.6	< 0.28	0.5	<0.19	0.2	<1.0	<1.0
Toluene	< 0.39	< 0.17	<0.17	<0.17	<0.17	0.21	<0.50
Metals, mg/L							
Arsenic	< 0.0021	< 0.0029	<0.0026	<0.0026	<0.0043	0.00043	0.00036
Barium	0.088	0.093	0.073	0.0637	0.0525	0.064	0.06
Cadmium	< 0.00028	< 0.00036	0.00029	<0.00028	<0.00042	0.00003	<0.00012
Calcium	----	----	----	----	----	----	----
Cobalt	< 0.00074	< 0.0011	<0.00096	<0.00096	<0.0012	0.00022	0.00026
Iron	0.052	< 0.044	**0.45**	<0.049	<0.032	<0.0022	<0.15
Lead	< 0.0016	< 0.0023	<0.0017	<0.0017	<0.0017	0.00018	<0.00012
Magnesium	----	----	----	----	----	----	----
Manganese	**0.59**	**0.32**	**0.79**	**0.33**	0.135	0.14	0.61
Mercury	< 0.000087	< 0.000067	<0.000029	<0.000029	<0.00009	<0.000065	<0.000065
Potassium	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----
Vanadium	< 0.00067	< 0.00096	0.001	<0.00071	<0.0019	0.0014	0.00055
Dissolved Gases, ug/L							
Ethane	< 0.3	< 0.3	---	---	----	----	----
Ethene	< 0.29	< 0.29	---	---	----	----	----
Methane	0.58	6.2	---	---	----	----	----
Natural Attenuation Parameters, mg/L							
Chloride	9.5	17.2	7.1	6.8	17.4	33	22
Nitrate as N	1.5	0.15	0.21	0.087	0.051	----	----
Sulfate	12.3	5.6	12.2	9.4	2.4	----	----
Total Alkalinity	190	230	---	---	230	250	240
Total Organic Carbon	0.9	2	---	---	3	----	----
pH	7.32	7.15	7.41	7.15	7.32	7.31	7.29
Conductivity (mS/cm)	0.44	0.497	0.373	237	316	466	493
Temperature (C)	11.73	11.96	12.14	9.5	9.52	7.9	7.5
ORP (mV)	124	177	208	163	271.5	+4	+15
Dissolved Oxygen (mg/L)	7.07	4.3	3.34	6.64	5.32	7.0	5

Note: Please see notes provided at the end of this table.

Table 1
8S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/28/2010	4/18/2012	5/17/2013	4/28/2014	10/13/2015	4/25/2016	4/19/2017	PAL	ES
Acetone	----	----	<2.6	<3.0	<3.0	<3.0	<3.0	1800	9000
Chlorobenzene	<0.20	<0.24	<0.36	<3.0	<3.0	<3.0	1.1	----	----
tert-Butylbenzene	<0.20	<0.24	----	<0.18	<0.18	<0.18	<0.18	----	----
Methylene chloride	<1.0	<0.63	<0.36	<0.23	<0.23	<0.23	<0.23	0.5	5
Toluene	<0.50	<0.15	<0.44	<0.50	<0.50	<0.50	<0.50	160	800
Metals, mg/L									
Arsenic	<0.00061	0.00043	<0.0044	<0.0072	<0.0072	<0.0072	<0.0054	0.001	0.01
Barium	0.060	0.052	0.0271	0.0248	0.0374	0.0308	0.0259	0.4	2
Cadmium	<0.00061	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	----	40.9	47.6	----	----	----	----	----
Cobalt	<0.00061	0.00033	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	**0.330**	<0.037	<0.0140	<0.0129	0.0216	<0.0129	<0.0155	0.15	0.3
Lead	<0.00061	<0.00016	<0.0012	<0.0030	0.0031	0.0032	<0.0043	0.0015	0.015
Magnesium	----	----	16.5	19.1	----	----	----	----	----
Manganese	**0.570**	**0.900**	**0.330**	**0.335**	**0.530**	**0.358**	0.245	0.060	0.300
Mercury	<0.000065	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	----	----	0.757	0.718	----	----	----	----	----
Sodium	----	----	9.66	8.49	----	----	----	----	----
Vanadium	0.00064	0.00061	<0.0012	<0.0020	0.0032	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L									
Ethane	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L									
Chloride	16	11	9.1	9.1	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	2	10
Sulfate	----	----	4.2	3.8	----	----	----	125	250
Total Alkalinity	220	200	156	215	236	219	213	----	----
Total Organic Carbon	----	----	----	----	----	----	----	----	----
pH	7.1	8.15	7.24	7.25	7.27	7.43	7.26	----	----
Conductivity (mS/cm)	410	350	0.223	0.309	0.385	0.321	0.322	----	----
Temperature (C)	8.6	13.6	8.85	8.23	12.18	9.07	8.78	----	----
ORP (mV)	-3	-13.8	36	124.6	-23.0	39.9	41.0	----	----
Dissolved Oxygen (mg/L)	4.0	5.5	7.1	8.26	2.50	3.88	6.04	----	----

Note: Please see notes provided at the end of this table.

Table 1
8M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/11/2002	10/7/2003	12/2/2004	6/8/2005	3/21/2007	4/9/2008	4/14/2009	10/28/2009	4/28/2010	10/28/2010	4/18/2012	5/17/2013
1,2,4-Trimethylbenzene	< 0.37	0.36	1.7	4.1	28	4.8	<0.20	<0.20	<0.20	<0.20	<0.22	1.7
1,3,5-Trimethylbenzene	< 0.4	0.22	<0.16	1.6	<0.27	<0.20	<0.20	<0.20	<0.20	<0.20	<0.23	<2.5
Acetone	2.9	< 0.66	<0.74	<0.74	1.9	----	----	----	----	----	----	<2.6
Benzene	< 0.37	< 0.2	0.3	0.53	<0.37	<0.20	<0.20	<0.20	<0.20	<0.20	<0.12	<0.50
sec-Butylbenzene	----	----	----	----	----	4.3	<0.25	<0.25	0.43	1.3	<0.19	----
tert-Butylbenzene	----	----	----	----	----	0.84	<0.20	<0.20	<0.20	0.34	<0.24	----
Chloroethane	< 0.29	< 0.22	0.43	<0.24	<0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<0.33	<0.44
cis-1,2-Dichloroethene	< 0.35	< 0.25	0.41	0.39	<0.35	<0.50	<0.50	<0.50	<0.50	<0.50	<0.22	<0.42
Ethylbenzene	< 0.41	< 0.19	2.4	2.6	0.74	<0.50	<0.50	<0.50	<0.50	<0.50	<0.14	<0.50
Isopropylbenzene	----	----	----	----	----	1.1	<0.20	<0.20	<0.20	<0.20	<0.21	----
Methylene chloride	3.2	< 0.28	0.55	<0.19	0.32	<1.0	<1.0	<1.0	<1.0	<1.0	<0.63	<0.36
Naphthalene	< 0.42	< 0.16	<0.15	0.43	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.24	<2.5
Toluene	< 0.39	< 0.17	<0.17	<0.17	<0.28	0.44	<0.50	<0.50	<0.50	<0.50	<0.15	<0.44
Trichloroethene	< 0.42	0.23	0.3	<0.28	<0.47	<0.20	0.26	<0.20	<0.20	<0.20	<0.18	<0.43
n-Propylbenzene	----	----	----	----	----	----	----	----	----	----	----	----
Metals, mg/L												
Arsenic	< 0.0021	< 0.0029	0.0027	0.0047	0.0058	0.0042	0.0018	0.0023	0.0023	0.0021	0.0014	<0.0044
Barium	0.68	0.73	0.7	0.997	0.874	0.68	0.51	0.56	0.720	0.730	0.320	0.933
Cadmium	< 0.00028	< 0.00036	0.0003	<0.00028	<0.00042	0.00003	<0.00012	<0.00061	<0.00061	<0.00012	<0.00010	<0.00038
Calcium	----	----	----	----	----	----	----	----	----	----	----	91.4
Cobalt	< 0.00074	< 0.0011	<0.00096	<0.00096	<0.0012	0.00089	0.00032	<0.00061	0.00067	<0.00061	0.00013	0.0011
Iron	< 0.042	0.045	0.12	**0.4**	0.27	**0.36**	<0.15	0.29	**0.430**	0.230	<0.037	**0.488**
Lead	< 0.0016	< 0.0023	0.002	<0.0017	<0.0017	0.00022	<0.00012	<0.00061	<0.00061	<0.00061	<0.00016	0.0014
Magnesium	----	----	----	----	----	----	----	----	----	----	----	25.5
Manganese	**2.7**	**2.8**	**3.3**	**4.34**	**3.97**	**3.0**	**0.48**	**1.6**	**2.8**	**3**	0.0089	**4.59**
Mercury	0.00009	< 0.000067	<0.000029	0.000063	<0.00009	<0.000065	<0.000065	<0.000065	<0.000065	<0.000065	<0.000070	<0.00010
Potassium	----	----	----	----	----	----	----	----	----	----	----	1.88
Sodium	----	----	----	----	----	----	----	----	----	----	----	9.18
Vanadium	< 0.00067	< 0.00096	<0.00071	<0.00071	<0.0019	0.0012	0.00016	<0.00061	<0.00061	<0.00061	<0.00034	0.0055
Dissolved Gases, ug/L												
Ethane	< 0.3	< 0.3	---	----	----	----	----	----	----	----	----	----
Ethene	< 0.29	< 0.29	---	----	----	----	----	----	----	----	----	----
Methane	2	110	---	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L												
Chloride	2.6	12.8	14	21.9	12.4	13	15	----	8.4	----	18	7.5
Nitrate as N	< 0.0076	< 0.019	<0.016	<0.016	<0.031	----	----	----	----	----	----	----
Sulfate	5.7	1.1	0.84	0.48	0.45	----	----	----	----	----	----	2.7
Total Alkalinity	220	240	---	----	330	260	280	----	270	----	250	309
Total Organic Carbon	2	3	---	----	4	----	----	----	----	----	----	----
pH	7.41	7.31	7.37	7.3	7.48	7.32	7.25	6.83	7.0	7.87	8.02	7.32
Conductivity (mS/cm)	0.422	0.479	0.558	393	426	561	557	390	110	443	410	0.44
Temperature (C)	9.95	10.44	10.21	10.88	10.64	8.8	8.2	11.2	10.0	-10.9	12.7	10.8
ORP (mV)	105	150	194	-49.1	-39.1	-17	-30	-37	-40	-134.4	-57.8	-62.5
Dissolved Oxygen (mg/L)	1.74	0.92	1.02	0.79	1.0	1.0	2.0	3.0	2.5	0.75	3.2	0.38

Note: Please see notes provided at the end of this table.

Table 1
8M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/28/2014	10/13/2015	4/26/2016	4/19/2017	PAL	ES
1,2,4-Trimethylbenzene	<0.50	234	<0.50	<0.50	96	480
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	96	480
Acetone	<3.0	<3.0	<3.0	<3	1800	9000
Benzene	<0.50	<0.50	<0.50	<0.50	0.5	5
sec-Butylbenzene	<2.2	20.7	<2.2	<2.2	----	----
tert-Butylbenzene	<0.18	2.6	0.57	<0.18	----	----
Chloroethane	<0.37	<0.37	<0.37	0.38J	80	400
cis-1,2-Dichloroethene	<0.26	0.33	<0.26	<0.31J	7	70
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	140	700
Isopropylbenzene	<0.12	12.4	<0.14	<0.14	----	----
Methylene chloride	<0.23	<0.23	<0.23	<0.23	0.5	5
Naphthalene	<2.5	<2.5	<2.5	<0.25	10	100
Toluene	<0.50	<0.50	<0.50	<0.50	160	800
Trichloroethene	<0.33	<0.33	<0.33	<0.33	0.5	5
n-Propylbenzene	----	4.2	<0.50	<0.50	----	----
Metals, mg/L						
Arsenic	<0.0072	<0.0072	<0.0072	<0.0054	0.001	0.01
Barium	0.512	1.00	0.736	0.711	0.4	2
Cadmium	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	49.5	----	----	----	----	----
Cobalt	<0.00094	0.0010	0.0012	0.0016J	0.008	0.04
Iron	0.246	**0.454**	**0.367**	**0.334**	0.15	0.3
Lead	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	14.0	----	----	----	----	----
Manganese	**2.48**	**4.96**	**3.86**	**3.67**	0.060	0.300
Mercury	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	1.23	----	----	----	----	----
Sodium	6.94	----	----	----	----	----
Vanadium	<0.0020	0.0139	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L						
Ethane	----	----	----	----	----	----
Ethene	----	----	----	----	----	----
Methane	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L						
Chloride	12.4	----	----	----	125	250
Nitrate as N	----	----	----	----	2	10
Sulfate	4.3	----	----	----	125	250
Total Alkalinity	192	339	263	236	----	----
Total Organic Carbon	----	----	----	----	----	----
pH	7.48	7.33	7.55	7.37	----	----
Conductivity (mS/cm)	0.313	0.540	0.389	0.363	----	----
Temperature (C)	10.67	10.09	10.43	10.04	----	----
ORP (mV)	-107.4	-51.9	-60.2	-50.1	----	----
Dissolved Oxygen (mg/L)	0.74	0.36	0.20	0.72	----	----

Note: Please see notes provided at the end of this table.

Table 1
9M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/18/2012	6/14/2012	5/16/2013	4/29/2014	10/14/2015	4/26/2016	4/20/2017	PAL	ES
Vinyl chloride	**0.66**	<0.10	----	----	----	----	----	0.02	0.2
Metals, mg/L									
Arsenic	0.0065	----	0.0061	<0.0072	<0.0072	<0.0072	0.0061	0.001	0.01
Barium	0.050	----	0.193	0.174	0.162	0.157	0.161	0.4	2
Cadmium	<0.00010	----	0.00043	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	----	69.2	63.6	----	----	----	----	----
Cobalt	<0.00013	----	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	<0.037	----	**2.84**	**2.56**	**2.12**	**2.35**	**2.3**	0.15	0.3
Lead	<0.00016	----	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	----	16.7	15.4	----	----	----	----	----
Manganese	0.0066	----	**1.02**	**0.911**	**0.879**	**0.866**	**0.881**	0.060	0.300
Mercury	<0.000070	----	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	----	----	1.56	1.28	----	----	----	----	----
Sodium	----	----	9.76	6.87	----	----	----	----	----
Vanadium	<0.00034	----	<0.0012	<0.0020	0.0030	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L									
Ethane	----	----	----	----	----	----	----	---	---
Ethene	----	----	----	----	----	----	----	---	---
Methane	----	----	----	----	----	----	----	---	---
Natural Attenuation Parameters, mg/L									
Chloride	7.8	----	13.8	32.5	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	2	10
Sulfate	----	----	3.4	4.5	----	----	----	125	250
Total Alkalinity	150	----	213	202	206	199	194	---	---
Total Organic Carbon	----	----	----	----	----	----	----	---	---
pH	7.61	----	7.56	10.18	7.68	7.88	7.70	---	---
Conductivity (mS/cm)	290	----	0.34	0.382	0.342	0.322	0.337	---	---
Temperature (C)	14.3	----	10.75	10.42	10.19	10.51	10.1	---	---
ORP (mV)	51.6	----	-146.9	-596.0	-136.1	-152.5	-155.3	---	---
Dissolved Oxygen (mg/L)	7.0	----	0.35	0.63	0.44	0.37	0.73	---	---

Note: Please see notes provided at the end of this table.

Table 1
10M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	6/8/2005	3/22/2006	3/21/2007	4/18/2012	5/16/2013	4/29/2014	10/14/2015	4/26/2016	4/20/2017	PAL	ES
Acetone	1	0.79	<0.74	----	----	----	----	----	----	1800	9000
Carbon disulfide	0.71	<0.28	<0.28	----	----	----	----	----	----	200	1000
cis-1,2-Dichloroethene	0.34	0.21	0.25	<0.22	----	----	----	----	----	7	70
Methylene chloride	<0.19	0.38	<0.19	<0.63	----	----	----	----	----	0.5	5
Trichloroethene	0.37	<0.28	<0.28	<0.18	----	----	----	----	----	0.5	5
Metals, mg/L											
Arsenic	<0.0026	<0.0043	<0.0043	0.00055	<0.0044	<0.0072	<0.0072	<0.0072	<0.0054	0.001	0.01
Barium	0.104	0.0653	0.0604	0.015	0.0624	0.0343	0.0442	0.0554	0.0588	0.4	2
Cadmium	<0.00028	<0.00042	<0.00042	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	----	----	----	59.8	37.8	----	----	----	----	----
Cobalt	0.0012	<0.0012	<0.0012	<0.00013	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	0.068	<0.032	0.035	<0.037	<0.0140	<0.0129	<0.0129	<0.0129	<0.0155	0.15	0.3
Lead	<0.0017	<0.0017	<0.0017	<0.00016	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	----	----	----	24.6	15.4	----	----	----	----	----
Manganese	**2.33**	**1.86**	**1.52**	0.0016	**1.94**	**1.19**	**1.36**	**1.68**	**1.44**	0.060	0.300
Mercury	0.000048	<0.00009	<0.00009	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	----	----	----	----	1.39	0.981	----	----	----	----	----
Sodium	----	----	----	----	4.03	2.76	----	----	----	----	----
Vanadium	0.00095	<0.0019	<0.0019	0.00047	0.0027	<0.0020	0.0048	<0.0020	<0.0022	0.006	0.03
Natural Attenuation Parameters, mg/L											
Chloride	1.6	3	3.6	7.4	19.1	9.7	----	----	----	125	250
Nitrate as N	<0.016	<0.015	<0.031	----	----	----	----	----	----	2	10
Sulfate	6.2	8.7	5.2	----	3.4	5.2	----	----	----	125	250
Total Alkalinity	----	220	170	130	200	160	241	209	183	----	----
Total Organic Carbon	----	1	2	----	----	----	----	----	----	----	----
pH	7.22	7.55	7.51	7.66	7.42	8.86	7.63	7.74	7.53	----	----
Conductivity (mS/cm)	232	2.65	236	270	0.333	0.258	0.285	0.334	0.319	----	----
Temperature (C)	11.06	10.73	10.69	13.2	10.89	10.72	10.4	10.74	10.26	----	----
ORP (mV)	126	112	123	24.7	10.5	-444.4	-46.3	10.2	33.5	----	----
Dissolved Oxygen (mg/L)	1.45	1.1	0.53	5.0	0.4	0.56	0.51	0.24	0.83	----	----

Note: Please see notes provided at the end of this table.

Table 1
11M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/18/2012	6/14/2012	5/16/2013	4/29/2014	10/14/2015	4/26/2016	4/20/2017	PAL	ES
Vinyl chloride	**0.31**	<0.10	----	----	----	----	----	0.02	0.2
Metals, mg/L									
Arsenic	0.00087	----	<0.0044	0.0078	<0.0072	<0.0072	0.0068J	0.001	0.01
Barium	0.078	----	0.223	0.170	0.181	0.182	0.204	0.4	2
Cadmium	<0.00010	----	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	----	78.4	61.1	----	----	----	---	---
Cobalt	<0.00013	----	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	<0.037	----	**4.14**	**3.03**	**2.89**	**3.3**	**3.25**	0.15	0.3
Lead	<0.00016	----	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	----	16.8	13.0	----	----	----	---	---
Manganese	0.0023	----	**1.48**	**1.11**	**1.16**	**1.18**	**1.22**	0.060	0.300
Mercury	<0.000070	----	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	----	----	1.38	1.05	----	----	----	---	---
Sodium	----	----	3.79	2.84	----	----	----	---	---
Vanadium	<0.00034	----	<0.0012	<0.0020	0.0028	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L									
Ethane	----	----	----	----	----	----	----	---	---
Ethene	----	----	----	----	----	----	----	---	---
Methane	----	----	----	----	----	----	----	---	---
Natural Attenuation Parameters, mg/L									
Chloride	9.2	----	20.0	6.9	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	2	10
Sulfate	----	----	9.0	11.4	----	----	----	125	250
Total Alkalinity	75	----	205	209	205	203	198	---	---
Total Organic Carbon	----	---	----	----	----	----	----	---	---
pH	7.39	----	7.53	9.77	7.61	7.83	7.60	---	---
Conductivity (mS/cm)	330	----	0.356	0.342	0.333	0.317	0.358	---	---
Temperature (C)	12.6	----	10.6	10.25	10.23	10.35	9.87	---	---
ORP (mV)	17.7	----	-141.8	-545.2	-129.4	-149.2	-148.9	---	---
Dissolved Oxygen (mg/L)	4.5	----	0.42	0.78	0.73	0.30	0.76	---	---

Note: Please see notes provided at the end of this table.

Table 1
12S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/11/2002	10/7/2003	6/9/2005	10/13/2015	4/25/2016	4/19/2017	PAL	ES
Acetone	3	< 0.66	<0.74	---	---	---	1800	9000
Methylene chloride	2.7	< 0.28	<0.19	---	---	---	0.5	5
Naphthalene	< 0.42	< 0.16	0.17	---	---	---	10	100
Metals, mg/L								
Arsenic	< 0.0021	< 0.0029	<0.0026	<0.0072	<0.0072	<0.0054	0.001	0.01
Barium	0.021	0.021	0.0158	0.0206	0.0199	0.0169	0.4	2
Cadmium	< 0.00028	< 0.00036	<0.00028	<0.00060	<0.00060	<0.0013	0.0005	0.005
Cobalt	< 0.00074	< 0.0011	<0.00096	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	< 0.042	< 0.044	<0.049	<0.0129	<0.0129	<0.0155	0.15	0.3
Lead	0.0034	< 0.0023	<0.0017	<0.0030	<0.0030	<0.0043	0.0015	0.015
Manganese	0.0023	0.0017	0.0025	<0.0014	<0.0014	<0.0011	0.060	0.300
Mercury	< 0.000087	< 0.000067	<0.000029	<0.00010	<0.00018	<0.00013	0.0002	0.002
Vanadium	< 0.00067	0.0013	<0.00071	<0.0020	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L								
Ethane	< 0.3	< 0.3	---	---	---	---	---	---
Ethene	< 0.29	< 0.29	---	---	---	---	---	---
Methane	< 0.39	< 0.39	---	---	---	---	---	---
Natural Attenuation Parameters, mg/L								
Chloride	24.3	9.1	3.5	---	---	---	125	250
Nitrate as N	1.6	1.4	1	---	---	---	2	10
Sulfate	7.2	5	4.4	---	---	---	125	250
Total Alkalinity	170	210	---	210	192	199	---	---
Total Organic Carbon	1	0.8	---	---	---	---	---	---
pH	7.29	7.44	6.81	7.32	7.54	7.24	---	---
Conductivity (mS/cm)	0.444	0.438	197	0.351	0.358	0.303	---	---
Temperature (C)	12.04	11.97	9.34	11.81	9.21	8.89	---	---
ORP (mV)	132	190	185.5	-8.9	30.4	48.4	---	---
Dissolved Oxygen (mg/L)	5.86	9.0	11.92	5.64	4.32	6.29	---	---

Note: Please see notes provided at the end of this table.

Table 1
14S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/12/2002	4/23/2003	10/8/2003	4/13/2004	12/2/2004	6/9/2005	3/22/2006	9/8/2006	3/22/2007	9/10/2007	4/10/2008	4/15/2009
1,2,4-Trimethylbenzene	1.7	0.97	5.5	2.1	3.1	2.5	1.9	3.7	1.1	4.4	0.29	0.81
1,3,5-Trimethylbenzene	0.64	< 0.4	1.8	0.8	1.3	0.96	0.66	1.1	0.34	1.8	<0.20	0.21
2-Butanone	< 0.59	< 0.59	< 1.8	< 0.36	<0.65	<0.39	1.2	<0.65	<0.39	<0.57	---	---
Acetone	4.3	< 1.1	< 3.3	< 0.66	2	<0.74	2.3	<1.2	2.1	<1.1	---	---
Benzene	< 0.37	< 0.37	< 1	0.43	<0.37	<0.22	<0.22	<0.37	<0.22	<0.13	<0.20	<0.20
n-Butylbenzene	----	----	----	----	----	----	----	----	----	----	0.72	1.0
sec-Butylbenzene	----	----	----	----	----	----	----	----	----	----	0.36	0.46
tert-Butylbenzene	----	----	----	----	----	----	----	----	----	----	----	----
Ethylbenzene	< 0.41	< 0.41	1.2	0.4	0.78	0.76	0.49	0.98	0.35	1	<0.50	<0.50
Isopropylbenzene	----	----	----	----	----	----	----	----	----	----	0.24	0.46
p-Isopropyltoluene	----	----	----	----	----	----	----	----	----	----	----	----
Methylene chloride	2.1	< 0.29	< 1.4	< 0.28	1.2	<0.19	<0.19	<0.32	0.3	<0.33	<1.0	<1.0
Naphthalene	5	2.2	18	6	11	13	8.8	18	7.5	16	1.9	3.1
n-Propylbenzene	----	----	----	----	----	----	----	----	----	----	----	----
Xylenes (total)	1.4	0.47	2.3	1.1	2.1	2.3	1.4	2.6	0.86	2.9	<0.50	<0.50
Metals, mg/L												
Arsenic	< 0.0021	< 0.0021	< 0.0029	< 0.0026	0.0029	<0.0026	<0.0043	<0.0043	<0.0043	<0.0043	0.00053	0.00046
Barium	0.18	0.084	0.19	0.11	0.16	0.168	0.117	0.154	0.0893	0.13	0.091	0.097
Cadmium	0.00045	< 0.00028	< 0.00036	< 0.00028	<0.00028	<0.00028	<0.00042	<0.00042	<0.00042	<0.00042	0.00006	<0.00012
Calcium	----	----	----	----	----	----	----	----	----	----	----	----
Cobalt	0.0052	0.0015	< 0.0011	0.0017	0.0013	0.0018	<0.0012	<0.0012	<0.0012	0.0013	0.0001	0.00067
Iron	**11.6**	**2.5**	**17.8**	**5.4**	**12.1**	**12.9**	**7.4**	**13.6**	**3.5**	**8.4**	**4.8**	**4.1**
Lead	< 0.0016	< 0.0016	< 0.0023	< 0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.0001	<0.00012
Magnesium	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	**3.7**	**0.83**	**7**	**1.9**	**3.1**	**2.88**	**1.9**	**3.36**	**1.05**	**2.2**	**1.6**	**0.95**
Mercury	0.000088	< 0.000087	< 0.000067	< 0.000029	<0.000029	0.000069	<0.00009	<0.00009	<0.00009	<0.00009	<0.000065	<0.000065
Potassium	----	----	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----	----	----
Vanadium	< 0.00067	< 0.00067	< 0.00096	< 0.00071	0.0011	<0.00071	<0.0019	<0.0019	<0.0019	<0.0019	0.00077	0.00037
Dissolved Gases, ug/L												
Ethane	< 3	< 0.6	< 3	< 1.4	---	---	---	---	---	---	----	----
Ethene	< 2.9	< 0.58	< 2.9	< 1.3	---	---	---	---	---	---	----	----
Methane	450	430	1200	1700	---	---	---	---	---	---	----	----
Natural Attenuation Parameters, mg/L												
Chloride	5	5.4	7.3	5.7	3.4	4.4	6	5.6	5.8	2.6	5.2	5.1
Nitrate as N	0.01	0.34	< 0.019	0.21	0.082	0.13	0.16	<0.031	0.16	0.1	---	---
Sulfate	3	5.4	0.18	8.4	4.3	3.9	7.9	2.6	4.4	6.3	---	---
Total Alkalinity	210	150	170	160	---		170	180	140	190	140	150
Total Organic Carbon	14	5	12	10	---		7	9	6	13	---	---
pH	6.88	6.96	6.89	---	6.41	6.45	6.91	6.75	6.77	6.59	7.26	7.19
Conductivity (mS/cm)	0.441	0.328	0.404	---	0.385	229	223	247	201	0.248	248	239
Temperature (C)	11.13	7.7	12.24	---	11.6	9.3	8.52	12.05	7.97	12.38	6.0	5.7
ORP (mV)	114	166	162	---	188	-45.5	-23.3	-88.1	13.4	181.3	-17	-19
Dissolved Oxygen (mg/L)	3.22	5.02	6.03	---	2.11	4.08	7.56	0.84	4.35	6.13	---	3.0

Note: Please see notes provided at the end of this table.

Table 1
14S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/28/2010	4/19/2012	5/17/2013	4/28/2014	10/15/2015	4/27/2016	4/21/2017	PAL	ES
1,2,4-Trimethylbenzene	1.9	1.3	3.3	1.8	5.3	6.5	7.1	96	480
1,3,5-Trimethylbenzene	0.49	<0.23	----	0.52	1.3	1.3	1.2	96	480
2-Butanone	---	---	<2.7	<3.0	<3.0	<3.0	<3.0	90	460
Acetone	---	---	3.2	<3.0	<3.0	<3.0	<3.0	1800	9000
Benzene	<0.20	<0.12	<0.50	<0.50	<0.50	<0.50	<0.50	0.5	5
n-Butylbenzene	1.8	<0.21	----	1.5	3.5	<0.50	<0.50	----	----
sec-Butylbenzene	1.1	0.60	----	<2.2	<2.2	<2.2	<2.2	----	----
tert-Butylbenzene	----	----	----	<0.18	0.21	0.21	0.19J	----	----
Ethylbenzene	0.52	0.25	0.65	<0.50	1.1	1.2	0.76J	140	700
Isopropylbenzene	1.1	0.58	----	0.72	1.9	2.2	1.9	----	----
p-Isopropyltoluene	0.57	<0.24	----	<0.13	0.58	<0.50	3.1	----	----
Methylene chloride	<1.0	<0.63	<0.36	<0.23	<0.23	<0.23	<0.23	0.5	5
Naphthalene	11	8.9	16.3	10.7	31.2	31.1	31.2	10	100
n-Propylbenzene	1.3	0.69	----	1.2	2.9	3.0	2.6	----	----
Xylenes (total)	1.6	0.85	1.7	<1.5	3.1	3.5	3.1	400	2,000
Metals, mg/L									
Arsenic	0.001	0.00041	<0.0044	<0.0072	<0.0072	<0.0072	<0.0083	0.001	0.01
Barium	0.13	0.080	0.117	0.110	0.161	0.0989	0.100	0.4	2
Cadmium	<0.00061	<0.00010	0.00044	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	----	45.6	32.3	----	----	----	----	----
Cobalt	0.00086	0.00067	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	**17**	**2.3**	**7.27**	**9.85**	**12.1**	**7.4**	**6.73**	0.15	0.3
Lead	<0.00061	<0.00016	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	----	15.2	12.6	----	----	----	----	----
Manganese	**1.8**	**0.800**	**1.26**	**1.77**	**2.09**	**1.16**	**1.0**	0.060	0.300
Mercury	<0.000065	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	----	----	4.9	4.48	----	----	----	----	----
Sodium	----	----	6.34	5.87	----	----	----	----	----
Vanadium	<0.00061	<0.00034	0.0022	<0.0020	0.0066	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L									
Ethane	----	----	----	----	----	----	----	----	----
Ethene	----	----	-----	----	----	----	----	----	----
Methane	----	----	-----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L									
Chloride	5.3	7.6	5.2	4.8	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	2	10
Sulfate	----	----	6.8	5.0	----	----	----	125	250
Total Alkalinity	220	160	149	145	233	176	169	----	----
Total Organic Carbon			----	----	----	----	----	----	----
pH	7.2	8.09	6.36	7.05	6..68	7.22	6.85	----	----
Conductivity (mS/cm)	380	280	0.237	0.234	0.386	0.254	0.266	----	----
Temperature (C)	9.8	9.1	7.61	7.45	10.85	8.02	7.78	----	----
ORP (mV)	-73	-93.6	-12.3	-60.4	-46.9	-61.7	-55.4	----	----
Dissolved Oxygen (mg/L)	2.0	2.0	3.4	11.09	0.55	0.43	0.87	----	----

Note: Please see notes provided at the end of this table.

Table 1
15M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/12/2002	10/7/2003	12/2/2004	6/8/2005	3/22/2006	9/7/2006	3/22/2007	9/11/2007	4/9/2008	4/14/2009	4/28/2010
1,1-Dichloroethane	1	< 0.26	<0.21	<0.21	<2.1	<0.21	<0.21	<0.15	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	< 0.37	0.29	<0.12	<0.12	290	12	4.1	<0.12	0.22	<0.20	<0.20
2-Butanone	< 0.59	< 0.36	<0.39	<0.39	5.7	<0.39	<0.39	<0.57	----	----	----
Acetone	< 1.1	< 0.66	<0.74	<0.74	12	<0.74	<0.74	1.2	----	----	----
sec-Butylbenzene	----	----	----	----	----	----	----	----	1.5	<0.25	0.51
tert-Butylbenzene	----	----	----	----	----	----	----	----	0.35	<0.20	0.40
Chlorobenzene	< 0.38	< 0.16	<0.2	0.26	<2	<0.2	<0.2	0.39	<0.20	<0.20	<0.20
cis-1,2-Dichloroethene	0.56	0.29	<0.21	<0.21	<2.1	<0.21	<0.21	0.24	<0.50	<0.50	<0.50
Methylene chloride	3	< 0.28	0.44	<0.19	<1.9	<0.19	<0.19	<0.33	<1.0	<1.0	<1.0
Naphthalene	< 0.42	< 0.16	<0.15	<0.15	2.5	<0.15	<0.15	<0.24	<0.25	<0.25	<0.25
Toluene	< 0.39	< 0.17	<0.17	<0.17	<1.7	<0.17	<0.17	<0.13	0.22	<0.50	<0.50
Vinyl chloride	< 0.36	< 0.26	<0.21	<0.21	<2.1	<0.21	<0.21	<0.22	<0.20		<0.20
Metals, mg/L											
Arsenic	0.0054	< 0.0029	<0.0026	0.0026	<0.0043	<0.0043	<0.0043	<0.0043	0.00047	0.00028	0.0019
Barium	0.86	0.74	0.44	0.958	1.06	0.874	0.679	0.834	0.52	0.35	0.410
Cadmium	0.00031	0.00092	<0.00028	<0.00028	<0.00042	<0.00042	<0.00042	<0.00042	0.00017	<0.00012	<0.00061
Calcium	----	----	----	----	----	----	----	----	----	----	----
Cobalt	0.0012	< 0.0011	<0.00096	<0.00096	<0.0012	<0.0012	<0.0012	<0.0012	0.00073	0.00056	0.00077
Iron	**1.1**	**4.1**	**0.51**	**0.64**	**0.67**	0.13	0.069	**0.3**	<0.0022	<0.15	**1**
Lead	0.0049	**0.13**	<0.0017	0.002	<0.0017	<0.0017	<0.0017	<0.0017	0.00058	0.00081	0.0016
Magnesium	----	----	----	----	----	----	----	----	----	----	----
Manganese	**3.6**	**3.4**	**2.2**	**4.65**	**5.53**	**5.01**	**3.43**	**4.72**	**2.7**	**2.1**	**2.4**
Mercury	0.000092	< 0.000067	<0.000029	0.0001	<0.00009	<0.00009	<0.00009	<0.00009	<0.000065	<0.000065	<0.000065
Potassium	----	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----	----
Vanadium	< 0.00067	< 0.00096	<0.00071	<0.00071	<0.0019	<0.0019	<0.0019	<0.0019	0.00083	<0.00012	<0.00061
Dissolved Gases, ug/L											
Ethane	< 0.3	< 0.3	----	----	----	----	----	----	----	----	----
Ethene	< 0.29	< 0.29	----	----	----	----	----	----	----	----	----
Methane	12	19	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L											
Chloride	5.2	5.1	3.8	12.3	7.3	9.1	8.5	12.8	6.2	4.4	4.9
Nitrate as N	0.03	< 0.019	<0.016	<0.016	<0.015	<0.031	<0.031	<0.023	---	---	---
Sulfate	2.4	5.8	5.5	3.6	0.84	0.67	1.8	0.2	---	---	---
Total Alkalinity	240	230	---	---	330	300	220	320	240	140	160
Total Organic Carbon	3	2	---	---	7	5	6	5	---	---	---
pH	7.25	7.2	7.44	7.2	7.43	7.41	7.44	7.3	7.63	7.59	7.4
Conductivity (mS/cm)	0.466	0.469	0.299	320	397	344	297	0.377	380	410	300
Temperature (C)	10.65	10.76	10.31	10.64	10.18	10.84	10.18	10.67	8.8	8.2	9.5
ORP (mV)	93	100	172	-59.2	-50	-74.6	-32.5	202.3	+310	+259	+179
Dissolved Oxygen (mg/L)	0.51	2.3	0.68	0.66	1.42	0.64	0.71	0.56	1.0	2	3.0

Note: Please see notes provided at the end of this table.

Table 1
15M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/18/2012	5/15/2013	4/29/2014	10/13/2015	4/26/2016	4/20/2017	PAL	ES
1,1-Dichloroethane	<0.24	<0.28	<0.16	<0.24	<0.41	<0.24	85	850
1,2,4-Trimethylbenzene	<0.22	2.6	<0.50	<0.50	<0.50	<0.50	96	480
2-Butanone	----	<2.7	<3.0	<3.0	<3.0	<3.0	90	460
Acetone	----	<2.6	<3.0	<3.0	<3.0	<3.0	1800	9000
sec-Butylbenzene	<0.19	----	<2.2	<2.2	<2.2	<2.2	----	----
tert-Butylbenzene	<0.24	----	<0.18	<0.18	<0.18	<0.18	----	----
Chlorobenzene	<0.24	<0.36	<0.50	<0.50	<0.50	<0.50	----	----
cis-1,2-Dichloroethene	<0.22	<0.42	<0.26	<0.26	<0.26	<0.26	7	70
Methylene chloride	<0.63	<0.36	<0.23	<0.23	<0.23	<0.23	0.5	5
Naphthalene	<0.24	<2.5	<2.5	<2.5	<2.5	<2.5	10	100
Toluene	<0.15	<0.44	<0.50	<0.50	<0.50	<0.50	160	800
Vinyl chloride	**0.32**	<0.18	<0.18	<0.18	<0.18	<0.18	0.02	0.2
Metals, mg/L								
Arsenic	0.00026	<0.0044	<0.0072	<0.0072	<0.0072	<0.0054	0.001	0.01
Barium	0.320	**0.720**	0.301	0.388	0.376	0.526	0.4	2
Cadmium	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	78	30.3	----	----	----	----	----
Cobalt	0.00055	0.0012	<0.00094	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	0.210	**0.494**	**0.355**	**0.424**	**0.336**	**0.38**	0.15	0.3
Lead	0.0023	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	20.1	7.89	----	----	----	----	----
Manganese	**1.7**	**4.04**	**1.60**	**1.81**	**1.67**	**2.04**	0.060	0.300
Mercury	<0.000070	<0.0001	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	----	1.54	0.712	----	----	----	----	----
Sodium	----	6.21	2.69	----	----	----	----	----
Vanadium	<0.00034	0.0051	<0.0020	0.0057	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L								
Ethane	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L								
Chloride	7.4	12.6	9.7	----	----	----	125	250
Nitrate as N	---	----	----	----	----	----	2	10
Sulfate	---	3.9	5.6	----	----	----	125	250
Total Alkalinity	100	243	108	124	110	146	----	----
Total Organic Carbon	---	----	----	----	----	----	----	----
pH	7.46	7.35	7.67	7.57	7.85	7.64	----	----
Conductivity (mS/cm)	180	0.374	0.189	0.220	0.209	0.264	----	----
Temperature (C)	12.0	10.85	10.22	10.01	10.37	9.83	----	----
ORP (mV)	125.1	-69.1	-134.8	-90.3	-103.7	-98.2	----	----
Dissolved Oxygen (mg/L)	4.2	0.55	0.76	0.41	0.13	0.64	----	----

Note: Please see notes provided at the end of this table.

Table 1
16S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	3/23/2006	6/9/2006	9/7/2006	12/11/2006	3/23/2007	6/21/2007	9/11/2007	4/9/2008	10/8/2008	4/14/2009	10/28/2009	4/28/2010
1,2,4-Trimethylbenzene	**1500**	390	**1800**	400	370	**610**	400	130	370	100	190	140
1,3,5-Trimethylbenzene	**150**	16	**200**	9.8	9.3	**11**	<2.7	14	77	20	110	<0.40
n-Butylbenzene	----	----	----	----	----	----	----	14	4.5	5.7	17	5.3
sec-Butylbenzene	----	----	----	----	----	----	----	16	15	8.7	37	15
tert-Butylbenzene	----	----	----	----	----	----	----	8.3	<0.20	5.9	30	13
Acetone	120	27	<46	<4.9	<4.9	<37	<31	----	----	----	----	----
Benzene	<15	<3.7	<14	<1.5	<1.5	<4.3	<3.7	0.42	0.27	<0.40	<0.20	<0.40
n-Butylbenzene	----	----	----	----	----	----	----	----	----	----	----	----
Chlorobenzene	<13	<3.3	<12	<1.3	1.7	<5	<4.3	0.52	<0.20	<0.40	<0.20	<0.40
Ethylbenzene	22	4.6	20	8.1	8.1	<5.7	<4.9	4.2	8.9	4.1	4.4	17
Isopropylbenzene	----	----	----	----	----	----	----	38	21	18	64	43
p-Isopropyltoluene	----	----	----	----	----	----	----	3.2	16	2.1	34	8.8
Methylene chloride	<13	<3.2	<12	4.7	<1.3	**58**	<9.4	<1.0	<1.0	<2.0	<1.0	<2.0
Naphthalene	37	4.9	37	27	49	8	7.1	30	19	15	33	38
n-Propylbenzene	----	----	----	----	----	----	----	61	35	32	140	74
Toluene	<11	<2.8	<11	<1.1	<1.1	<4.3	<3.7	0.51	<0.50	<1.0	<0.50	<1.0
Xylenes (total)	91	22	61	15	12	16	16	14	36	7.8	7.9	22
Metals, mg/L												
Arsenic	0.0099	0.0076	**0.0111**	0.0057	**0.0124**	**0.012**	**0.0104**	**0.015**	**0.011**	0.0029	**0.015**	0.0073
Barium	0.45	0.408	0.366	0.212	0.274	0.513	0.461	0.24	0.37	0.22	0.22	0.270
Cadmium	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	0.00001	<0.00012	<0.00012	<0.00061	<0.00061
Calcium	----	----	----	----	----	----	----	----	----	----	----	----
Cobalt	0.0052	0.0072	0.0039	0.0021	0.0025	0.0054	0.0036	0.0026	0.00093	0.0017	0.0015	0.0014
Iron	**42.6**	**46.4**	**37.3**	**22.3**	**32.6**	**43.1**	**29.6**	**32**	**27**	**6.8**	**21**	**25**
Lead	0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.00004	0.00012	<0.00012	<0.00061	<0.00061
Magnesium	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	**9.53**	**12.2**	**8.42**	**4.52**	**5.38**	**11.8**	**12.2**	**3.4**	**5.0**	**2.9**	**2.8**	**3.4**
Mercury	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	0.000095	<0.00009	<0.000065	<0.000065	<0.000065	<0.000065	<0.000065
Potassium	----	----	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----	----	----
Vanadium	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0026	0.0014	0.00028	0.00073	0.00066
Natural Attenuation Parameters, mg/L												
Chloride	4.7	17.8	12.3	36.2	21.8	14.2	39.7	13	----	13	----	9.6
Nitrate as N	<0.015	<0.015	<0.031	<0.031	<0.031	<0.031	<0.023	----	----	----	----	----
Sulfate	2.4	4.4	<0.12	<0.12	1.9	6.1	1.8	----	----	----	----	----
Total Alkalinity	470	570	460	180	260	610	590	220	----	360	----	380
Total Organic Carbon	12	9	11	7	10	11	10	----	----	----	----	----
pH	6.75	6.62	6.58	6.68	6.63	6.69	6.58	6.67	6.71	6.71	6.68	6.8
Conductivity (mS/cm)	624	766	625	393	419	819	0.843	619	635	603	660	730
Temperature (C)	9.27	10.44	14.16	11.59	9.3	10.79	15.49	6.7	9.1	7.3	12.2	8.8
ORP (mV)	-55.8	-89.1	-110.6	-92	-42.5	-82.3	-64.3	+235	+220	+300	-41	+133
Dissolved Oxygen (mg/L)	2.22	2.2	0.83	1.59	0.54	1.42	1.17	3.0	2.0	4.0	4.0	4.0

Note: Please see notes provided at the end of this table.

Table 1
16S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	10/28/2010	10/27/2011	4/19/2012	5/17/2013	4/28/2014	10/13/2015	4/25/2016	4/19/2017	Duplicate 4/19/2017	PAL	ES
1,2,4-Trimethylbenzene	71	64	4.5	<1.1	<0.50	<0.50	1.0	<0.50	<0.50	96	480
1,3,5-Trimethylbenzene	33	<0.20	<0.23	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	96	480
n-Butylbenzene	12	9.2	2.2	----	2.0	16.1	1.6	0.65J	0.63J	-----	-----
sec-Butylbenzene	26	19	5.5	----	5.1	38.6	11	<2.2	<2.2	-----	-----
tert-Butylbenzene	23	16	3.7	----	3.4	25.9	7.7	1.1	1.1	-----	-----
Acetone	----	----	----	<5.2	<3.0	<3.0	<3.0	<3.0	<3.0	1800	9000
Benzene	<0.40	<0.20	<0.12	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	0.5	5
n-Butylbenzene	----	----	----	----	----	----	----	0.65	0.63	-----	-----
Chlorobenzene	<0.40	<0.20	<0.24	<0.72	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----
Ethylbenzene	8.9	1.4	0.51	1.6	<0.50	0.63	<0.50	<0.50	<0.50	140	700
Isopropylbenzene	60	41	8.4	----	12.1	42.6	18.9	3.6	3.5	-----	-----
p-Isopropyltoluene	12	12	0.69	-----	1.3	5.6	1.8	<0.50	<0.50	-----	-----
Methylene chloride	<2.0	<1.0	<0.36	<0.72	<0.23	<0.23	<0.23	<0.23	<0.23	0.5	5
Naphthalene	60	16	8.6	11.2	8.7	29.2	9.4	<2.5	<2.5	10	100
n-Propylbenzene	110	87	17	----	22.8	94.7	35.8	7.1	7.1	-----	-----
Toluene	<1.0	<0.50	<0.15	<0.88	<0.50	<0.50	<0.50	<0.50	<0.50	160	800
Xylenes (total)	14	<0.50	0.43	<2.6	<1.5	<1.5	<1.5	<1.5	<1.5	400	2,000
Metals, mg/L											
Arsenic	**0.011**	**0.011**	0.0028	0.0068	<0.0072	0.0080	<0.0072	<0.0054	----	0.001	0.01
Barium	0.190	0.200	0.2200	0.168	0.104	0.231	0.179	0.131	----	0.4	2
Cadmium	0.00013	<0.0012	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	----	0.0005	0.005
Calcium	----	----	----	92.2	56.4	----	----	----	----	----	----
Cobalt	0.0021	0.00095	0.0018	0.0018	0.0024	<0.00094	0.0025	<0.0014	----	0.008	0.04
Iron	**19**	**14**	**5.7**	**7.14**	**2.47**	**25.6**	**5.57**	**0.305**	----	0.15	0.3
Lead	<0.00061	<0.00013	<0.00016	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	----	0.0015	0.015
Magnesium	----	----	----	33.5	21.1	----	----		----	----	----
Manganese	**4.2**	**2.7**	**1.8**	**1.32**	**0.684**	**3.36**	**1.33**	0.224	----	0.060	0.300
Mercury	<0.000065	<0.000070	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	----	0.0002	0.002
Potassium	----	----	----	3.17	2.02	----	----	----	----	----	----
Sodium	----	----	----	16.7	12.8	----	----	----	----	----	----
Vanadium	0.00072	<0.00066	<0.00034	0.0019	<0.0020	0.0116	<0.0020	<0.0022	----	0.006	0.03
Natural Attenuation Parameters, mg/L											
Chloride	----	----	9.4	6.9	5.9	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	----	8.6	5.1	----	----	----	----	125	250
Total Alkalinity	----	----	390	336	259	379	431	396	----	----	----
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----	----
pH	6.88	7.58	7.43	6.32	6.86	6.61	6.90	6.71	----	----	----
Conductivity (mS/cm)	324	400	570	0.462	0.364	0.654	0.562	0.507	----	----	----
Temperature (C)	-9.17	11.8	8.8	7.59	7.62	12.64	8.65	8.07	----	----	----
ORP (mV)	-213.6	-197	151.7	3.7	-19.9	-67.2	-41.9	6.0	----	----	----
Dissolved Oxygen (mg/L)	0.5	1.0	5.0	1.4	6.32	0.42	0.71	1.11	----	----	----

Note: Please see notes provided at the end of this table.

Table 1
16M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	3/23/2006	Duplicate 3/23/2006	6/9/2006	9/7/2006	12/11/2006	3/23/2007	Duplicate 3/23/2007	6/21/2007	9/11/2007	4/9/2008	10/8/2008	4/14/2009	10/28/2009	Duplicate 10/28/09
1,4-Dichlorobenzene	----	----	----	----	----	----	----	----	----	0.23	0.52	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	34	37	15	190	68	240	240	47	2.7	13	180	3.4	190	160
1,3,5-Trimethylbenzene	<0.32	<0.32	<0.16	<1.1	<0.16	7.1	8.6	<0.24	<0.096	2.2	4.9	0.78	36	35
2-Butanone	<0.78	1.4	<0.39	<2.6	<0.39	<1.3	<1.3	<1.4	<0.57	----	----	----	----	----
Acetone	4.3	4.2	<0.74	<4.9	<0.74	<2.5	<2.5	<2.8	<1.1	----	----	----	----	----
Benzene	0.97	0.86	0.76	<1.5	0.59	1.6	1.7	<0.32	0.88	1.2	1.4	0.34	0.86	0.86
n-Butylbenzene	----	----	----	----	----	----	----	----	----	0.5	3.0	<0.20	3.6	<0.20
sec-Butylbenzene	----	----	----	----	----	----	----	----	----	0.36	8.2	0.41	15	15
tert-Butylbenzene	----	----	----	----	----	----	----	----	----	0.27	<0.20	0.24	12	11
Chlorobenzene	2.2	2.2	1.7	<1.3	1.7	2.9	2.8	1.8	1	1.3	3.0	1.9	1.6	1.6
Chloroethane	1.3	1.4	1.3	<1.6	<0.24	<0.8	0.87	<0.72	0.44	<1.0	1.3	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<0.42	<0.42	<0.21	<1.4	<0.21	<0.7	<0.7	<0.42	<0.17	<0.50				
Ethylbenzene	<0.38	<0.38	<0.19	<1.3	<0.19	<0.63	<0.63	<0.42	<0.17	<0.50	<0.50	<0.50	1.2	1.1
Isopropylbenzene	----	----	----	----	----	----	----	----	----	1.2	21	<0.20	24	24
Methylene chloride	<0.38	<0.38	<0.19	<1.3	<0.19	<0.63	<0.63	2.7	<0.33	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	3.1	3	1.8	23	5.8	13	12	2.1	0.3	0.87	12	<0.25	3.3	6.9
n-Propylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	58	57
p-Isopropyltoluene	----	----	----	----	----	----	----	----	----	----	----	----	12	12
Toluene	<0.34	<0.34	<0.17	<1.1	<0.17	<0.57	<0.57	<0.32	<0.13	0.40	<0.50	<0.50	<0.50	<0.50
Xylenes (total)	4.2	4	1.4	3.6	2.7	5	7	<0.7	0.7	5.0	3.4	<0.50	5.1	5.0
Metals, mg/L														
Arsenic	**0.0225**	**0.0213**	**0.0204**	**0.0103**	<0.0043	**0.0277**	**0.0245**	**0.0234**	**0.0141**	**0.028**	**0.024**	**0.027**	**0.027**	----
Barium	1.04	0.981	1.13	1.31	1.14	1.84	1.81	1.01	1.13	1.1	1.2	0.79	1.5	----
Cadmium	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	0.00002	<0.00012	<0.00012	<0.00061	----
Calcium	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cobalt	<0.0012	<0.0012	<0.0012	0.0022	<0.0012	0.0013	<0.0012	<0.0012	<0.0012	0.0019	0.0026	0.0014	0.0023	----
Iron	**22.1**	**20.7**	**22.6**	**20.9**	**7.5**	**32.9**	**31.8**	**18.1**	**18**	**21**	**21**	**17**	**29**	----
Lead	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.00009	<0.00012	<0.00012	0.0012	----
Magnesium	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	**1.43**	**1.36**	**1.28**	**1.88**	**1.14**	**1.82**	**1.78**	**1.06**	**1.32**	**1.2**	**1.2**	**0.70**	**1.20**	----
Mercury	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.000065	<0.000065	<0.000065	<0.000065	----
Potassium	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Vanadium	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.00096	0.00058	0.00078	**<0.00061**	----
Natural Attenuation Parameters, mg/L														
Chloride	31.9	32	41.1	43.5	42.4	35.2	35.3	23.8	30.1	41	---	20	----	----
Nitrate as N	<0.015	<0.015	<0.015	<0.031	<0.031	<0.031	<0.031	<0.031	<0.023	---	---	---	----	----
Sulfate	<0.12	<0.12	0.34	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	---	---	---	----	----
Total Alkalinity	180	180	170	250	170	260	270	170	180	170	---	150	----	----
Total Organic Carbon	5	120	5	7	5	7	7	5	5	---	---	---	----	----
pH	7.15	---	7.05	6.99	7.31	7.2	----	7.27	7.17	7.20	7.10	7.21	----	----
Conductivity (mS/cm)	329	---	355	410	352	481	----	327	0.301	348	275	341	330	----
Temperature (C)	10.83	---	11.27	11.48	9.85	11.17	----	11.38	10.87	7.0	9.2	6.7	11.1	----
ORP (mV)	-114	---	-140.6	-149.7	-153	-131.5	----	-155.3	-40.5	+10	+39	+17	----	----
Dissolved Oxygen (mg/L)	0.88	---	0.85	0.17	0.48	0.52	----	0.4	0.62	1.0	1.0	3.0	3.0	----

Note: Please see notes provided at the end of this table.

Table 1
16M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/28/2010	10/28/2010	Duplicate 10/28/2009	4/19/2012	5/17/2013	4/28/2014	10/13/2015	4/25/2016	10/3/2016	4/19/2017	PAL	ES
1,4-Dichlorobenzene	<0.50	0.53	0.50	<0.24	<0.43	<0.50	0.58	<0.50	----	<0.50	15	75
1,2,4-Trimethylbenzene	8.9	25	25	<0.22	2.9	2.3	<0.50	1.5	----	<0.50	96	480
1,3,5-Trimethylbenzene	<0.20	4.1	4.3	<0.23	<2.5	<0.50	<0.50	<0.50	----	<0.50	96	480
2-Butanone	----	----	----	----	<2.7	<3.0	<3.0	<3.0	----	<3.0	90	460
Acetone	----	----	----	----	<2.6	<0.30	<3.0	<3.0	----	<3.0	1800	9000
Benzene	1.1	1.6	1.6	<0.12	0.85	0.65	1.2	0.80	----	<0.50	0.5	5
n-Butylbenzene	<0.20	3.2	3.4	<0.21	-----	<0.22	1.1	<0.50	----	<0.50	-----	-----
sec-Butylbenzene	1.3	7.5	7.7	<0.19	------	<2.2	5	<2.2	----	<2.2	-----	-----
tert-Butylbenzene	2.1	4.9	5.0	<0.24	-----	0.99	4.5	1.7	----	<0.18	-----	-----
Chlorobenzene	1.8	2.4	2.4	<0.24	2.4	2.9	3.8	2.7	----	1.1	-----	-----
Chloroethane	1.8	2.4	2.2	<0.33	<0.44	1.1	0.77	<0.37	----	<0.37	80	400
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.22	<0.42	<0.26	0.29	<0.26	----	<0.	7	70
Ethylbenzene	<0.50	<0.50	<0.50	<0.14	<0.50	<0.50	<0.50	<0.50	----	<0.17	140	700
Isopropylbenzene	7.7	19	19	<0.21	----	1.6	16.2	7.5	----	<0.14	-----	-----
Methylene chloride	<1.0	<1.0	<1.0	<0.63	<0.36	<0.23	<0.23	<0.23	----	<0.23	0.5	5
Naphthalene	0.30	9.8	9.5	<0.24	<2.5	<2.5	<2.5	<2.5	----	<2.5	10	100
n-Propylbenzene	5.0	20	21	<0.19	-----	<0.50	7.0	4.5	----	<0.50	-----	-----
p-Isopropyltoluene	<0.20	0.76	0.78	<0.24	------	<0.13	<0.50	<0.50	----	<0.50	-----	-----
Toluene	<0.50	<0.50	<0.50	<0.15	<0.44	<0.50	<0.50	<0.50	----	<0.50	160	800
Xylenes (total)	<0.50	2.5	2.6	<0.30	<1.3	<1.5	<1.5	<1.5	----	<1.5	400	2,000
Metals, mg/L												
Arsenic	**0.029**	**0.026**	----	0.0042	**0.0288**	**0.0261**	**0.0247**	**0.0253**	**0.0284**	**0.0308**	0.001	0.01
Barium	1.4	1.3	----	0.470	1.35	**1.24**	**1.44**	**1.37**	**1.17**	1.03	0.4	2
Cadmium	<0.00061	<0.00012	----	<0.00010	0.00044	<0.00060	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	----	----	----	61	55.0	----	----	----	----	----	----
Cobalt	0.0023	0.0027	----	0.0032	0.0015	0.0021	0.0023	0.0022	0.0014	<0.0014	0.008	0.04
Iron	**25**	**20**	----	**1.8**	**23.4**	**20.3**	**21.1**	**21.5**	**18.2**	**15.1**	0.15	0.3
Lead	<0.00061	<0.00061	----	<0.00016	<0.0012	<0.0030	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	----	----	----	17.4	14.1	----	----	----	----	----	----
Manganese	**1.4**	**1.4**	----	0.220	**1.38**	**1.22**	**1.35**	**1.4**	**1.06**	**0.963**	0.060	0.300
Mercury	<0.000065	<0.000065	----	<0.000070	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	0.0002	0.002
Potassium	----	----	----	----	4.64	4.07	----	----	----	----	----	----
Sodium	----	----	----	----	19.7	17.3	----	----	----	----	----	----
Vanadium	<0.00061	0.00064	----	<0.00034	0.0021	<0.0020	0.0049	<0.0020	<0.0020	<0.0022	0.006	0.03
Natural Attenuation Parameters, mg/L												
Chloride	27	----	----	22	28.1	35.7	----	----	----	----	125	250
Nitrate as N	----	----	----	----	-----	----	----	----	----	----	2	10
Sulfate	----	----	----	----	2.2	2.2	----	----	----	----	125	250
Total Alkalinity	250	----	----	140	192	206	268	237	188	179	----	----
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----	----	----
pH	6.7	7.5	----	8.04	7.18	7.37	7.13	7.38	7.12	7.35	----	----
Conductivity (mS/cm)	540	562	----	270	0.404	0.439	0.523	0.491	0.399	0.357	----	----
Temperature (C)	9.3	-10.94	----	9.2	11.2	10.79	10.19	11.4	11.26	11.04	----	----
ORP (mV)	+75	-256.2	----	54.8	-160	-184.8	-122.8	-156.4	-148.5	-168.2	----	----
Dissolved Oxygen (mg/L)	2.0	0.0	----	310	1	0.85	0.56	0.16	0.04	0.77	----	----

Note: Please see notes provided at the end of this table.

Table 1
17S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	3/23/2006	6/9/2006	9/7/2006	12/11/2006	3/23/2007	6/21/2007	9/11/2007	4/9/2008	10/8/2008	4/14/2009	10/28/2009	4/28/2010
1,2,4-Trimethylbenzene	400	**420**	**1100**	**550**	240	**1200**	**1200**	**570**	**750**	190	570	400
1,3,5-Trimethylbenzene	47	**74**	**67**	**38**	21	**45**	**15**	**13**	**65**	14	**23**	<2.0
n-Butylbenzene	----	----	----	----	----	----	----	6.7	12	4.9	<0.80	3.7
sec-Butylbenzene	----	----	----	----	----	----	----	23	41	17	10	23
tert-Butylbenzene	----	----	----	----	----	----	----	6.1	20	4.7	<0.80	5.4
Acetone	82	14	<25	<7.4	<2.5	<69	<69	----	----	----	----	----
Ethylbenzene	7.8	4.9	<6.3	2.7	1.6	<11	<11	2.6	<0.50	<1.0	<2.0	<5.0
Isopropylbenzene	----	----	----	----	----	----	----	16	27	6.8	9.4	11
p-Isopropyltoluene	----	----	----	----	----	----	----	12	24	6.8	7.3	7.1
Methylene chloride	<7.6	<2.7	<6.3	**6.3**	<0.63	**130**	<21	<1.0	<1.0	<2.0	<4.0	<10
Naphthalene	<6	<2.1	7.7	10	1.4	<15	<15	5.7	14	2.2	6.4	2.9
n-Propylbenzene	----	----	----	----	----	----	----	34	52	13	18	23
Toluene	<6.8	<2.4	<5.7	<1.7	<0.57	<8.1	<8.1	0.46	<0.50	<1.0	<2.0	<5.0
Xylenes (total)	22	17	<15	8.7	1.8	<18	<18	8.1	5.2	<1.0	2.2	<5.0

Metals, mg/L												
Arsenic	0.0086	0.0095	0.009	0.0063	<0.0043	**0.0117**	**0.0116**	**0.014**	**0.032**	0.0032	0.012	**0.010**
Barium	0.23	0.183	0.229	0.216	0.146	0.265	0.272	0.27	0.33	0.15	0.21	0.27
Cadmium	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	0.00001	<0.00012	<0.00012	<0.00061	<0.00061
Calcuim	----	----	----	----	----	----	----	----	----	----	----	----
Cobalt	<0.0012	0.0016	<0.0012	<0.0012	0.0017	<0.0012	0.0025	0.0019	0.00089	0.0079	<0.00061	0.001
Iron	**21**	**22.2**	**25.4**	**22.3**	**7.6**	**31.7**	**30.4**	**37**	**49**	**4.9**	**19**	**34**
Lead	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.00007	<0.00012	<0.00012	<0.00061	<0.00061
Magnesium	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	**3.65**	**3.22**	**3.79**	**3.33**	**1.39**	**3.51**	**4.38**	**3.7**	**3.3**	**1.4**	**1.5**	**2.9**
Mercury	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	0.00011	<0.00009	<0.000065	<0.000065	<0.000065	<0.000065	<0.000065
Potassium	----	----	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----	----	----
Vanadium	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	<0.00012	0.00025	<0.00061	<0.00061

Natural Attenuation Parameters, mg/L												
Chloride	4.2	5.8	4.9	6.4	4.6	4.5	3.1	6.2	----	3.5	----	2.7
Nitrate as N	0.97	0.29	<0.031	0.2	2.1	0.3	0.4	----	----	----	----	----
Sulfate	1.6	3.3	0.34	0.63	16	1.5	2.7	----	----	----	----	----
Total Alkalinity	230	190	200	190	220	250	300	220	----	260	----	260
Total Organic Carbon	4	4	4	3	3	3	5	----	----	----	----	----
pH	7.06	1.51	6.78	6.92	6.97	6.88	6.67	6.46	6.61	6.59	6.72	7.0
Conductivity (mS/cm)	322	295	313	324	312	375	0.418	528	600	524	440	460
Temperature (C)	9.29	10.33	13.35	11.24	7.79	9.99	13.8	5.8	9.7	6.3	11.0	8.8
ORP (mV)	-88.7	-92.7	-123	-103.8	-12.4	-86.7	49.5	-22	-47	-29	-55	-10
Dissolved Oxygen (mg/L)	1.1	1.51	0.26	1.43	3.09	1.25	0.45	3.0	2.5	4.0	3.0	4.0

Note: Please see notes provided at the end of this table.

Table 1
17S
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	10/28/2010	10/27/2011	4/19/2012	5/15/2013	10/29/2013	4/28/2014	10/28/2014	10/13/2015	4/25/2016	10/3/2016	4/18/2017	PAL	ES
1,2,4-Trimethylbenzene	**1,600**	**640**	390	261	**1780**	215	378	448	**943**	**897**	433	96	480
1,3,5-Trimethylbenzene	**44**	<0.20	<0.23	<2.5	<5.0	<0.50	<1.2	<1.2	<5.0	<5.0	<5.0	96	480
n-Butylbenzene	10	5.3	<0.21	----	8.5	2.5	5.8	6.4	<5.0	7.7	<5.0	-----	-----
sec-Butylbenzene	28	21	13	----	24.2	15.5	21.2	22.7	22.5	<21.9	<21.9	-----	-----
tert-Butylbenzene	11	8.9	<0.24	----	12.3	5.0	7.8	11.3	7.8	5.2	3.2J	-----	-----
Acetone	----	----	----	<2.6	<25.9	<3.0	<7.4	<7.4	<29.5	<29.5	<29.5	1800	9000
Ethylbenzene	<4.0	<0.50	<0.14	<0.50	<5.0	<0.50	<1.2	<1.2	<5.0	<5.0	<5.0	140	700
Isopropylbenzene	16	12	5.8	----	25.2	6.1	10.2	8.7	11.5	8.5	5.2J	-----	-----
p-Isopropyltoluene	23	17	3.0	----	24.4	3.8	10.6	11.4	15.6	10.2	7.4J	-----	-----
Methylene chloride	<8.0	<1.0	<0.63	<0.36	<3.6	<0.23	<0.58	<0.58	<2.3	<2.3	<2.3	0.5	5
Naphthalene	11	4.1	2.6	<2.5	<25.0	<2.5	<6.2	<6.2	<25	<25	<25	10	100
n-Propylbenzene	36	25	9.2	----	48.4	9.2	17.8	18.6	29.5	23.3	11.3	-----	-----
Toluene	<4.0	<0.50	<0.15	<0.44	<4.4	<0.50	<1.2	<1.2	<5.0	<5.0	<5.0	160	800
Xylenes (total)	<4.0	1.1	<0.30	<1.3	<13.2	<1.5	<3.8	<3.8	<15	<15	<15	400	2,000
Metals, mg/L													
Arsenic	**0.014**	**0.017**	0.0082	**0.0105**	**0.0203**	0.0087	**0.0111**	**0.0111**	**0.0108**	**0.0173**	**0.0109**	0.001	0.01
Barium	0.34	0.24	0.170	0.178	0.318	0.149	0.166	0.204	0.173	0.177	0.172	0.4	2
Cadmium	<0.00012	<0.00012	<0.00010	<0.00038	<0.00038	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcuim	----	----	----	69.2	----	58.2	----	----	----	----	----	----	----
Cobalt	<0.00061	0.00039	0.00049	<0.00085	<0.00085	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	**33**	**22**	**14**	**14.4**	**31.6**	**12.0**	**12.9**	**15.3**	**13.6**	**11.3**	**12.4**	0.15	0.3
Lead	<0.00061	<0.00013	<0.00016	0.0015	0.0025	<0.0030	<0.0030	<0.0030	0.0033	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	----	----	29.5	----	25.0	----	----	----	----	----	----	----
Manganese	**3.6**	**2.5**	**2.1**	**1.42**	**2.91**	**1.25**	**1.78**	**2.28**	**2.06**	**1.88**	**1.96**	0.060	0.300
Mercury	<0.000065	<0.000070	<0.000070	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	<0.00013	0.0002	0.002
Potassium	----	----	----	1.92	----	1.35	----	----	----	----	----	----	----
Sodium	----	----	----	2.65	----	2.71	----	----	----	----	----	----	----
Vanadium	<0.00061	<0.00066	<0.00034	0.0015	0.0014	<0.0020	<0.0020	0.0076	<0.0020	<0.0020	<0.0022	0.006	0.03
Natural Attenuation Parameters, mg/L													
Chloride	----	----	3.5	4.6	----	2.6	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	----	----	----	2	10
Sulfate	----	----	----	4.5	----	3.9	----	----	----	----	----	125	250
Total Alkalinity	----	----	220	248	----	251	----	196	220	238	235	----	----
Total Organic Carbon	----	----	----	---	----	----	----	----	----	----	----	----	----
pH	7.33	7.59	7.93	6.67	6.86	7.00	6.65	7.01	7.27	6.83	7	----	----
Conductivity (mS/cm)	590	625	410	0.366	0.458	0.376	0.357	0.355	0.33	0.383	0.347	----	----
Temperature (C)	-9.39	10.2	8.5	7.68	12.6	7.09	12.25	12.19	8.65	15.01	8.54	----	----
ORP (mV)	-220.2	-188	-18.6	-50.9	-102.4	-85.7	-50.4	-116.8	-107.7	-83.5	-102.8	----	----
Dissolved Oxygen (mg/L)	0.0	0.5	4.5	4.1	0.67	4.99	1.22	0.39	0.81	1.70	1.55	----	----

Note: Please see notes provided at the end of this table.

Table 1
17M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	3/23/2006	6/9/2006	9/7/2006	12/11/2006	3/23/2007	6/21/2007	9/11/2007	4/9/2008	4/14/2009	4/28/2010
1,2,4-Trimethylbenzene	<0.12	1.3	<0.12	5.2	<0.12	34	9.7	<0.20	<0.20	22
1,3,5-Trimethylbenzene	<0.16	<0.16	<0.16	<0.16	<0.16	<0.096	<0.096	<0.20	<0.20	<0.20
sec-Butylbenzene	----	----	----	----	----	----	----	0.88	<0.25	4.3
tert-Butylbenzene	----	----	----	----	----	----	----	1.4	<0.20	5.5
Acetone	1.6	1.3	<0.74	<0.74	<0.74	<1.1	<1.1	----	----	----
Isopropylbenzene	----	----	----	----	----	----	----	0.27	<0.20	9.7
Methylene chloride	<0.19	1.7	<0.19	<0.19	<0.19	<0.33	<0.33	<1.0	<1.0	<1.0
Naphthalene	<0.15	<0.15	<0.15	<0.15	<0.15	<0.24	<0.24	0.28	<0.25	<0.25
n-Propylbenzene	----	----	----	----	----	----	----	----	----	0.71
Toluene	<0.17	0.56	<0.17	<0.17	<0.17	<0.13	<0.13	0.44	<0.50	<0.50

Metals, mg/L										
Arsenic	0.0059	0.0078	0.006	<0.0043	0.0069	0.0086	0.0074	**0.012**	0.0014	0.0013
Barium	0.433	0.586	0.713	0.756	0.683	0.77	1.05	0.69	0.35	1.1
Cadmium	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00001	<0.00012	<0.00061
Calcium	----	----	----	----	----	----	----	----	----	----
Cobalt	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.00041	0.00019	0.00072
Iron	**2.8**	**4.1**	**0.53**	0.11	**4.7**	**4.7**	**2.5**	**6.1**	<0.15	**5.3**
Lead	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.00012	<0.00012	<0.00061
Magnesium	----	----	----	----	----	----	----	----	----	----
Manganese	**1.71**	**2.03**	**2.43**	**2.27**	**2.09**	**2.2**	**3.52**	**1.4**	0.016	**2.9**
Mercury	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	0.000093	<0.00009	<0.000065	<0.00065	<0.000065
Potassium	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----
Vanadium	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0011	0.00017	0.00089

Natural Attenuation Parameters, mg/L										
Chloride	4.8	6.1	5.4	5	4.9	3.2	5.1	7.3	7.1	5.3
Nitrate as N	<0.015	<0.015	<0.031	<0.031	<0.031	<0.031	<0.023	----	----	----
Sulfate	0.89	0.83	0.35	<0.12	2.2	1.9	0.6	----	----	----
Total Alkalinity	150	190	200	240	210	260	320	190	200	320
Total Organic Carbon	5	6	8	7	4	4	5	----	----	----

pH	7.39	7.23	7.4	7.61	7.56	7.56	7.54	6.78	7.03	6.9
Conductivity (mS/cm)	204	257	249	305	288	332	0.361	329	350	620
Temperature (C)	10.53	10.97	11.12	9.65	10.48	10.84	10.76	7.9	7.4	10.7
ORP (mV)	-113	-136.8	-159	-162.7	-146	-159.3	-155.6	-17	-30	-41
Dissolved Oxygen (mg/L)	2.45	1.23	0.18	0.31	0.35	0.45	0.61	2.0	3.0	3.0

Note: Please see notes provided at the end of this table.

Table 1
17M
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/19/2012	5/15/2013	4/28/2014	4/25/2016	4/18/2017	PAL	ES
1,2,4-Trimethylbenzene	<0.22	<0.57	<0.50	----	<0.50	96	480
1,3,5-Trimethylbenzene	<0.23	<2.5	<0.50	----	<0.50	96	480
sec-Butylbenzene	<0.19	----	<2.2	----	<2.2	-----	-----
tert-Butylbenzene	<0.24	----	4.3	----	<0.18	-----	-----
Acetone	----	<2.6	<3.0	----	<3	1800	9000
Isopropylbenzene	<0.21	----	5.5	----	<0.14	-----	-----
Methylene chloride	<0.63	<0.36	<0.23	----	<0.23	0.5	5
Naphthalene	<0.24	<2.5	<2.5	----	<2.5	10	100
n-Propylbenzene	<0.19	----	<0.50	----	<0.50	-----	-----
Toluene	<0.15	<0.44	<0.50	----	<0.50	160	800
Metals, mg/L							
Arsenic	0.0033	**0.0143**	**0.0147**	**0.0117**	**0.0131**	0.001	0.01
Barium	0.35	0.694	**0.905**	0.637	0.634	0.4	2
Cadmium	<0.00010	<0.00038	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	49.1	55.8	----	----	----	----
Cobalt	<0.00013	<0.00085	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	0.11	**5.58**	**6.68**	**4.46**	**4.92**	0.15	0.3
Lead	0.00022	<0.0012	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	21.8	24.6	----	----	----	----
Manganese	0.22	**1.39**	**1.97**	**1.14**	**0.993**	0.060	0.300
Mercury	<0.000070	<0.0001	<0.00010	<0.00018	<0.0013	0.0002	0.002
Potassium	----	2.1	2.25	----	----	----	----
Sodium	----	4.44	4.63	----	----	----	----
Vanadium	0.00055	0.0013	<0.0020	<0.0020	<0.0022	0.006	0.03
Natural Attenuation Parameters, mg/L							
Chloride	12	9.2	6.5	----	----	125	250
Nitrate as N	----	---	----	----	----	2	10
Sulfate	----	2.2	2.2	----	----		250
Total Alkalinity	150	187	261	184	184	----	----
Total Organic Carbon	----	-----	----	----	----	----	----
pH	8.10	7.31	7.71	7.88	7.73	----	----
Conductivity (mS/cm)	250	0.296	0.390	0.290	0.304	----	----
Temperature (C)	9.1	10.76	10.35	10.66	10.16	----	----
ORP (mV)	25.6	-182.2	-193.7	-183.5	-194.7	----	----
Dissolved Oxygen (mg/L)	3.0	0.48	1.78	0.20	0.93	----	----

Note: Please see notes provided at the end of this table.

Table 1
PZ-1
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/12/2002	4/23/2003	10/8/2003	4/13/2004	3/22/2006	3/22/2007	4/10/2008	4/15/2009	4/28/2010	4/19/2012
Acetone	< 1.1	< 1.1	< 0.66	< 0.66	1.3	<0.74	----	----	----	----
Benzene	< 0.37	< 0.37	< 0.2	0.5	<0.22	<0.22	<0.20	<0.20	<0.20	<0.12
tert-Butylbenzene	**----**	**----**	**----**	**----**	**----**	**----**	**----**	----	**----**	0.52
Methylene chloride	3.4	< 0.29	< 0.28	< 0.28	0.39	<0.19	<1.0	<1.0	<1.0	<0.63
Toluene	< 0.39	< 0.39	< 0.17	< 0.17	<0.17	<0.17	0.2	<0.50	<0.50	<0.15
Metals, mg/L										
Arsenic	0.0029	< 0.0021	< 0.0029	0.0035	<0.0043	<0.0043	0.00091	0.0011	0.0011	0.0010
Barium	0.024	0.031	0.033	0.039	0.0245	0.0349	0.036	0.025	0.044	0.013
Cadmium	< 0.00028	< 0.00028	< 0.00036	< 0.00028	<0.00042	<0.00042	0.00006	<0.00012	<0.00061	0.00043
Calcium	----	----	----	----	----	----	----	----	----	----
Cobalt	< 0.00074	< 0.00074	< 0.0011	< 0.00096	<0.0012	<0.0012	0.00034	0.0003	<0.00061	0.00021
Iron	< 0.042	< 0.042	< 0.044	0.058	<0.032	<0.032	<0.0022	<0.15	**0.38**	0.067
Lead	< 0.0016	< 0.0016	< 0.0023	< 0.0017	<0.0017	<0.0017	0.00013	<0.00012	<0.00061	<0.00016
Magnesium	----	----	----	----	----	----	----	----	----	----
Manganese	0.19	**0.3**	**0.37**	**0.49**	0.258	**0.371**	**0.4**	**0.31**	0.039	0.110
Mercury	0.000091	< 0.000087	< 0.000067	< 0.000029	<0.00009	<0.00009	<0.000065	<0.000065	<0.000065	<0.000070
Potassium	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----
Vanadium	0.0013	0.0011	0.0012	0.0015	<0.0019	<0.0019	0.0013	0.00086	<0.00061	0.00062
Dissolved Gases, ug/L										
Ethane	< 0.3	< 0.3	< 0.3	< 0.14	---	---	----	----	----	----
Ethene	< 0.29	< 0.29	< 0.29	< 0.13	---	---	----	----	----	----
Methane	6.6	1.5	48	3.8	---	---	----	----	----	----
Natural Attenuation Parameters, mg/L										
Chloride	9.4	12.8	5.8	7.2	8.5	7.3	9.0	8.7	5.5	5.7
Nitrate as N	0.23	0.23	< 0.019	< 0.016	<0.015	<0.031	---	----	----	----
Sulfate	1.6	5.5	6.1	9.1	9.5	9	---	----	----	----
Total Alkalinity	120	130	190	150	120	130	150	33	250	200
Total Organic Carbon	3	< 0.7	2	3	2	2	---	----	---	
pH	7.54	7.43	7.31	---	8.08	7.97	7.04	7.15	7.3	8.16
Conductivity (mS/cm)	0.271	0.314	0.404	---	170	194	228	200	240	330
Temperature (C)	11.33	9.93	11.09	---	9.96	9.74	6.1	6.5	12.2	8.8
ORP (mV)	105	169	186	---	223.6	70.2	0	5	+13	-15.5
Dissolved Oxygen (mg/L)	2.78	4.8	3.99	---	3.3	0.64	---	3.0	3.0	2.5

Note: Please see notes provided at the end of this table.

Table 1
PZ-1
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	5/17/2013	4/28/2014	10/14/2015	4/27/2016	4/21/2017	PAL	ES
Acetone	----	----	----	----	<3.0	1800	9000
Benzene	----	----	----	----	<0.50	0.5	5
tert-Butylbenzene	----	----	----	----	<0.18	---	---
Methylene chloride	----	----	----	----	<0.23	0.5	5
Toluene	----	----	----	----	<0.50	160	800
Metals, mg/L							
Arsenic	<0.0044	<0.0072	<0.0072	<0.0072	<0.0083	0.001	0.01
Barium	0.0714	0.0891	0.106	0.101	0.0898	0.4	2
Cadmium	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	48.6	45.3	----	----	----	---	---
Cobalt	0.002	0.0018	0.0012	0.0015	<0.0014	0.008	0.04
Iron	<0.0140	<0.0129	<0.0129	<0.0129	<0.034	0.15	0.3
Lead	<0.0012	<0.0030	0.0031	<0.0030	<0.0043	0.0015	0.015
Magnesium	19.6	18.2	----	----	----	---	---
Manganese	**3.72**	**3.19**	**2.61**	**1.77**	**1.5**	0.060	0.300
Mercury	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	7.97	5.80	----	----	----	---	---
Sodium	14.1	6.45	----	----	----	---	---
Vanadium	0.0053	<0.0040	0.0083	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L							
Ethane	----	----	----	----	----	---	---
Ethene	----	----	----	----	----	---	---
Methane	----	----	----	----	----	---	---
Natural Attenuation Parameters, mg/L							
Chloride	7.9	8.9	----	----	----	125	250
Nitrate as N	----	----	----	----	----	2	10
Sulfate	6.8	7.0	----	----	----	125	250
Total Alkalinity	200	211	221	173	165	---	---
Total Organic Carbon	----	----	----	----	----	---	---
pH	7.98	7.71	7.89	8.20	8.02	---	---
Conductivity (mS/cm)	0.295	0.305	0.336	0.292	0.286	---	---
Temperature (C)	9.36	8.57	9.47	9.60	9.68	---	---
ORP (mV)	48.6	33.7	-33.2	-48.2	228.2	---	---
Dissolved Oxygen (mg/L)	4.9	7.04	0.74	0.19	0.66	---	---

Note: Please see notes provided at the end of this table.

Table 1
PZ-2
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Compounds (VOC), ug/L	12/11/2002	10/7/2003	12/2/2004	6/9/2005	3/22/2006	3/22/2007	4/10/2008	4/15/2009	4/28/2010	4/19/2012
Acetone	2.6	< 0.66	2.9	<0.74	0.76	<0.74	----	----	----	----
Carbon disulfide	< 0.24	< 0.21	<0.28	0.56	<0.28	<0.28	----	----	----	----
Methylene chloride	2.4	< 0.28	0.64	<0.19	0.42	<0.19	<1.0	<1.0	<1.0	<0.63
Metals, mg/L										
Arsenic	**0.056**	< 0.0029	**0.011**	0.007	<0.0043	<0.0043	0.00057	0.00099	0.0025	0.0021
Barium	0.66	0.071	0.14	0.117	0.0601	0.0522	0.036	0.056	0.060	0.047
Cadmium	< 0.00028	< 0.00036	0.00033	<0.00028	<0.00042	<0.00042	0.0001	<0.00012	<0.00061	<0.00010
Calcium	----	----	----	----	----	----	----	----	----	----
Cobalt	0.011	< 0.0011	0.0024	0.0046	<0.0012	<0.0012	0.00057	0.002	0.0038	0.011
Iron	**98.8**	**20.8**	**39.6**	**17.3**	**35.6**	**13.5**	0.025	**1.0**	**11**	**6.6**
Lead	0.0062	< 0.0023	<0.0017	<0.0017	<0.0017	<0.0017	0.0002	<0.00012	<0.00061	<0.00016
Magnesium	----	----	----	----	----	----	----	----	----	----
Manganese	**5.2**	**1.5**	**3.4**	**3.59**	**4.04**	**1.51**	0.14	**0.59**	**1.8**	**1.8**
Mercury	0.00013	< 0.000067	<0.000029	0.00005	0.00014	<0.00009	<0.000065	<0.000065	<0.000065	<0.000070
Potassium	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----
Vanadium	0.026	0.0016	0.0017	0.0014	<0.0019	<0.0019	0.0014	0.00053	0.0008	0.0049
Dissolved Gases, ug/L										
Ethane	< 0.6	< 3	---	---	---	---	---	---	---	---
Ethene	< 0.58	< 2.9	---	---	---	---	---	---	---	---
Methane	98	490	---	---	---	---	---	---	---	---
Natural Attenuation Parameters, mg/L										
Chloride	8.6	6.6	9.1	6.7	8.2	11.9	9.6	11	7.0	8.9
Nitrate as N	< 0.0076	< 0.019	<0.016	<0.016	<0.015	<0.031	---	---	---	---
Sulfate	2.4	< 0.14	3.2	2	0.81	9	---	---	---	---
Total Alkalinity	160	77	---	---	160	110	170	35	180	170
Total Organic Carbon	15	7	---	---	9	6	---	---	---	---
pH	6.68	6.67	6.41	5.72	6.83	6.79	7.49	7.25	7.1	8.26
Conductivity (mS/cm)	0.432	0.239	0.412	235	275	207	249	275	370	300
Temperature (C)	11.03	11.08	10.89	8.85	8.4	8.02	5.7	6.1	10.2	8.3
ORP (mV)	116	149	173	-68.1	-78.7	-33.1	0	+17	+29	-10.9
Dissolved Oxygen (mg/L)	5.14	4.43	1.6	0.92	8.45	1.38	---	5.0	4.0	2.5

Note: Please see notes provided at the end of this table.

Table 1
PZ-2
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Compounds (VOC), ug/L	5/28/2013	4/28/2014	10/14/2015	4/27/2016	4/21/2017	PAL	ES
Acetone	----	----	----	----	<3.0	1800	9000
Carbon disulfide	----	----	----	----	<0.61	200	1000
Methylene chloride	----	----	----	----	<0.23	0.5	5
Metals, mg/L							
Arsenic	<0.0044	<0.0072	<0.0072	0.0086	<0.0083	0.001	0.01
Barium	0.0432	0.0359	0.117	0.089	0.0691	0.4	2
Cadmium	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	34.1	32.1	----	----	----	----	----
Cobalt	0.0036	0.0036	<0.00094	0.00097	0.0021	0.008	0.04
Iron	**1.97**	**1.47**	**25.6**	**23.4**	**21.2**	0.15	0.3
Lead	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	18.2	17.8	----	----	----	----	----
Manganese	**1.08**	**0.388**	**2.86**	**2.16**	**3.08**	0.060	0.300
Mercury	<0.00010	<0.00010	<0.00010	<0.00018	<0.00013	0.0002	0.002
Potassium	0.175	0.24	----	----	----	----	----
Sodium	3.98	4.12	----	----	----	----	----
Vanadium	<0.0012	<0.0020	0.0098	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L							
Ethane	-----	----	----	----	----	----	----
Ethene	-----	----	----	----	----	----	----
Methane	-----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L							
Chloride	5.6	8.9	----	----	----	125	250
Nitrate as N	----	----	----	----	----	2	10
Sulfate	8.1	8.3	----	----	----	125	250
Total Alkalinity	159	148	193	183	194	----	----
Total Organic Carbon	----	----	----	----	----	----	----
pH	----	6.94	6.77	7.21	6.81	----	----
Conductivity (mS/cm)	----	0.229	0.372	0.317	0.319	----	----
Temperature (C)	----	7.26	9.83	8.52	7.95	----	----
ORP (mV)	----	26.6	-92.1	-101.4	-76.9	----	----
Dissolved Oxygen (mg/L)	----	8.41	0.70	0.66	1.72	----	----

Note: Please see notes provided at the end of this table.

Table 1
PZ-3
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/11/2002	10/7/2003	12/2/2004	6/8/2005	3/22/2006	3/21/2007	4/9/2008	4/14/2009	4/28/2010	4/18/2012
1,2,4-Trimethylbenzene	< 0.37	< 0.14	<0.12	4.3	<0.12	2.1	0.24	<0.20	<0.20	240
Acetone	3.1	< 0.66	1.3	<0.74	0.8	1.1	----	----	----	----
sec-Butylbenzene	----	----	----	----	----	----	----	----	2.7	9.8
tert-Butylbenzene	----	----	----	----	----	----	1.2	2.3	5.2	<0.24
cis-1,2-Dichloroethene	< 0.35	< 0.25	<0.21	0.26	0.23	0.26	<0.50	<0.50	<0.50	<0.22
Isopropylbenzene	----	----	----	----	----	----	<0.20	<0.20	<0.20	4.5
Methylene chloride	2.5	< 0.28	1.1	<0.19	0.38	0.21	<1.0	<1.0	<1.0	<0.63
n-Propylbenzene	----	----	----	----	----	----	<0.50	<0.50	<0.50	1.2
Toluene	< 0.39	< 0.17	<0.17	<0.17	<0.17	<0.17	0.55	<0.50	<0.50	<0.15
Metals, mg/L										
Arsenic	0.0038	< 0.0029	<0.0026	<0.0026	<0.0043	<0.0043	0.00084	0.00094	0.00083	0.0022
Barium	0.097	0.081	0.16	0.166	0.148	0.152	0.18	0.14	0.140	0.130
Cadmium	0.00099	< 0.00036	<0.00028	<0.00028	<0.00042	<0.00042	0.00006	0.00014	<0.00061	<0.00010
Calcium	----	----	----	----	----	----	----	----	----	----
Cobalt	0.0018	< 0.0011	0.0014	0.0016	<0.0012	0.0021	0.0024	0.0016	0.0022	0.0023
Iron	**1.2**	**0.58**	**1.5**	**2.4**	**0.7**	0.28	**0.41**	**0.55**	**0.93**	**2.3**
Lead	< 0.0016	< 0.0023	<0.0017	<0.0017	<0.0017	<0.0017	0.00029	<0.00012	<0.00061	<0.00016
Magnesium	----	----	----	----	----	----	----	----	----	----
Manganese	**2.7**	**2.2**	**3.9**	**4.14**	**3.87**	**4.2**	**4.6**	**4.9**	**4.5**	**6.4**
Mercury	0.00012	0.00007	<0.000029	0.000055	<0.00009	<0.00009	<0.000065	<0.000065	<0.000065	<0.000070
Potassium	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----
Vanadium	0.0028	< 0.00096	0.00092	0.0012	<0.0019	<0.0019	0.0016	0.00051	<0.00061	0.00083
Dissolved Gases, ug/L										
Ethane	< 0.3	< 0.3	---	---	---	---	----	----	----	----
Ethene	< 0.29	< 0.29	---	---	---	---	----	----	----	----
Methane	2.4	51	---	---	---	---	----	----	----	----
Natural Attenuation Parameters, mg/L										
Chloride	6.3	5.5	7.8	6.9	7.1	5.1	11	12	15	9.6
Nitrate as N	< 0.0076	< 0.019	<0.016	<0.016	<0.015	<0.031	---	----	----	----
Sulfate	1.2	3.5	0.74	1.5	1.7	0.42	---	----	----	----
Total Alkalinity	160	180	---	---	260	300	310	250	340	240
Total Organic Carbon	---	6	---	---	6	6	4.1	----	----	----
pH	7.06	6.96	6.97	6.89	7.25	7.14	7.11	7.07	7.2	8.20
Conductivity (mS/cm)	0.33	0.363	0.558	304	313	370	523	550	450	370
Temperature (C)	10.98	10.18	11.09	9.46	9.97	9.81	8.7	9.3	9.5	11.8
ORP (mV)	133	191	179	-18.9	-14.9	13.7	+500	+395	+275	181.6
Dissolved Oxygen (mg/L)	4.48	3.83	0.78	1.39	4.27	0.43	---	4.5	4.0	5.0

Note: Please see notes provided at the end of this table.

Table 1
PZ-3
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	5/16/2013	10/29/2013	4/29/2014	10/28/2014	10/14/2015	4/26/2016	10/3/2016	4/20/2017	PAL	ES
1,2,4-Trimethylbenzene	<0.57	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	96	480
Acetone	<2.6	<2.6	<3.0	<3.0	4.8	<3.0	<3.0	----	1800	9000
sec-Butylbenzene	----	<0.60	<2.2	6.5	2.4	<2.2	<2.2	----	-----	-----
tert-Butylbenzene	----	1.1	7.7	13.0	3.4	2.3	3.5	----	-----	-----
cis-1,2-Dichloroethene	<0.42	<0.42	<0.26	0.35	<0.26	<0.26	<0.26	----	7	70
Isopropylbenzene	---	<0.34	<0.12	0.66	<0.14	<0.14	<0.14	----	-----	-----
Methylene chloride	<0.36	<0.36	<0.23	<0.23	<0.23	<0.23	<0.23	----	0.5	5
n-Propylbenzene	----	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	-----	-----
Toluene	<0.44	<0.44	<0.50	<0.50	<0.50	<0.50	<0.50	----	160	800
Metals, mg/L										
Arsenic	<0.0044	<0.0044	<0.0072	<0.0072	<0.0072	<0.0072	0.0094	<0.0054	0.001	0.01
Barium	0.176	0.179	0.144	0.148	0.126	0.109	0.122	0.113	0.4	2
Cadmium	<0.00038	<0.00038	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	84.3	----	63.9	----	----	----	----	----	----	----
Cobalt	0.0025	0.0026	0.0023	0.0027	0.0029	0.0026	0.0013	0.0018	0.008	0.04
Iron	**0.315**	**1.32**	0.298	0.676	**0.724**	**0.47**	**0.564**	**0.435**	0.15	0.3
Lead	<0.0012	<0.0012	<0.0030	<0.0030	0.0051	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	33.2	----	24.4	----	----	----	----	----	----	----
Manganese	**5.54**	**6.98**	**4.34**	**5.6**	**5.16**	**4.6**	**4.39**	**4.6**	0.060	0.300
Mercury	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00013	<0.00013	0.0002	0.002
Potassium	2.91	----	2.10	----	----	----	----	----	----	----
Sodium	11.6	----	9.54	----	----	----	----	----	----	----
Vanadium	0.006	0.003	<0.0040	<0.0020	0.0141	<0.0020	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L										
Ethane	----	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----	----
Methane	----	----	----	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L										
Chloride	15.8	----	20.9	----	----	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	----	2	10
Sulfate	2.4	----	<2.0	----	----	----	----	----	125	250
Total Alkalinity	299	----	274	----	219	203	202	200	----	----
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----
pH	7.12	6.89	7.07	6.74	6.95	7.30	6.61	7.09	----	----
Conductivity (mS/cm)	0.451	0.470	0.438	0.417	0.332	0.285	0.292	0.297	----	----
Temperature (C)	10.45	11.49	10.23	10.72	9.85	9.67	10.52	9.57	----	----
ORP (mV)	-14.9	55.8	-39.4	25.0	-12.7	-27.3	8.2	-17.9	----	----
Dissolved Oxygen (mg/L)	0.4	2.19	0.70	0.20	0.40	0.20	0.05	0.61	----	----

Note: Please see notes provided at the end of this table.

Table 1
PZ-4
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/12/2002	10/7/2003	6/8/2005	4/18/2012	5/16/2013	4/29/2014	10/14/2015	4/26/2016	4/20/2017	PAL	ES
1,1-Dichloroethane	< 0.3	0.33	0.25	<0.24	---	---	---	---	<0.24	85	850
Acetone	3.5	< 0.66	<0.74	---	---	---	---	---	<3.0	1800	9000
sec-Butylbenzene	---	---	---	---	---	---	---	---	6		
tert-Butylbenzene	---	---	---	4.1	---	---	---	---	5.9	-----	-----
cis-1,2-Dichloroethene	< 0.35	0.46	0.55	<0.22	---	---	---	---	0.39J	7	70
Isopropylbenzene	---	---	---	---	---	---	---	---	0.34	-----	-----
Methylene chloride	2.6	< 0.28	<0.19	<0.63	---	---	---	---	<0.23	0.5	5
Trichloroethene	< 0.42	0.34	<0.28	<0.18	---	---	---	---	<0.33	0.5	5
Metals, mg/L											
Arsenic	< 0.0021	< 0.0029	<0.0026	0.00055	<0.0044	<0.0072	<0.0072	<0.0072	0.006	0.001	0.01
Barium	0.12	0.077	0.145	0.160	0.209	0.165	0.167	0.208	0.264	0.4	2
Cadmium	< 0.00028	< 0.00036	<0.00028	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	---	---	---	---	62.7	52.2	----	----	---	---	---
Cobalt	0.001	< 0.0011	0.0029	0.0014	0.0021	0.0015	0.0021	0.0029	0.0032	0.008	0.04
Iron	< 0.042	< 0.044	<0.049	0.040	0.0261	0.0219	0.0151	0.0273	0.0314	0.15	0.3
Lead	< 0.0016	< 0.0023	<0.0017	<0.00016	<0.0012	<0.0030	0.0031	<0.0030	<0.0043	0.0015	0.015
Magnesium	---	---	---	---	27.8	22.0	----	----	---	---	---
Manganese	**2.6**	**2**	**3.84**	**2.2**	**2.69**	**2.17**	**2.64**	**3.04**	**3.08**	0.060	0.300
Mercury	0.000088	< 0.000067	<0.000029	<0.00070	<0.00010	<0.00010	<0.00010	<0.00018	<0.0013	0.0002	0.002
Potassium	---	---	---	---	1.6	1.28	----	----	---	---	---
Sodium	---	---	---	---	10.4	9.05	----	----	---	---	---
Vanadium	< 0.00067	< 0.00096	<0.00071	<0.00034	0.0027	<0.0020	0.0084	<0.0020	<0.0022	0.006	0.03
Dissolved Gases, ug/L											
Ethane	< 0.3	< 0.3	---	---	---	----	----	----	---	---	---
Ethene	< 0.29	< 0.29	---	---	---	----	----	----	---	---	---
Methane	< 0.39	10	---	---	---	----	----	----	---	---	---
Natural Attenuation Parameters, mg/L											
Chloride	5.5	4.5	13.1	13	16.2	14.5	----	----	---	125	250
Nitrate as N	< 0.0076	< 0.019	<0.016	---	---	----	----	----	---	2	10
Sulfate	4.2	5.1	1.7	---	2.2	2.5	----	----	---	125	250
Total Alkalinity	130	130	---	240	238	238	229	260	287	---	---
Total Organic Carbon	5	4	---	---	----	----	----	----	---	---	---
pH	7.53	7.17	7.11	7.38	7.43	9.16	7.24	7.37	7.15	---	---
Conductivity (mS/cm)	0.278	0.283	239	380	0.36	0.374	0.364	0.402	0.441	---	---
Temperature (C)	11.80	11.52	9.68	11.8	9.73	9.39	10.48	9.55	9.48	---	---
ORP (mV)	105	133	67	-13.8	-3.4	-558.7	-6.5	15.7	25.7	---	---
Dissolved Oxygen (mg/L)	12	3.89	0.84	2.9	0.45	0.70	0.38	0.24	0.86	---	---

Note: Please see notes provided at the end of this table.

Table 1
PZ-5
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/12/2002	4/23/2003	10/8/2003	4/13/2004	12/2/2004	6/9/2005	3/23/2006	3/22/2007	4/19/2012	5/17/2013	4/29/2014	10/14/2015
1,2,4-Trimethylbenzene	< 0.37	< 0.37	< 0.14	< 0.14	<0.12	<0.12	5.9	5.7	8.2	---	---	---
1,3,5-Trimethylbenzene	< 0.4	< 0.4	< 0.18	< 0.18	<0.16	<0.16	2.6	2.4	4.7	---	---	---
2-Hexanone	< 0.58	< 0.58	< 0.31	< 0.31	<0.35	<0.35	<0.35	<0.35	---	---	---	---
Acetone	3	< 1.1	< 0.66	< 0.66	<0.74	<0.74	0.91	<0.74	---	---	---	---
Benzene	< 0.37	< 0.37	< 0.2	0.49	<0.22	<0.22	<0.22	<0.22	<0.12	---	---	---
sec-Butylbenzene	---	---	---	---	---	---	---	---	2.2	---	---	---
tert-Butylbenzene		---	---	---	---	---	---	---	---	---	---	---
Isopropylbenzene		---	---	---	---	---	---	---	---	---	---	---
n-Propylbenzene		---	---	---	---	---	---	---	---	---	---	---
p-Isopropyltoluene		---	---	---	---	---	---	---	---	---	---	---
Methylene chloride	2.5	0.34	< 0.28	< 0.28	0.48	<0.19	0.45	0.21	<0.63	---	---	---
Xylenes (total)	< 0.44	< 0.44	< 0.45	< 0.45	<0.44	<0.44	0.52	<0.44	<0.30	---	---	---
Metals, mg/L												
Arsenic	< 0.0021	< 0.0021	< 0.0029	< 0.0026	<0.0026	<0.0026	<0.0043	<0.0043	0.0057	0.0056	<0.0072	<0.0072
Barium	0.091	0.075	0.082	0.061	0.061	0.0767	0.097	0.0957	0.110	0.134	0.0944	0.168
Cadmium	< 0.00028	< 0.00028	< 0.00036	< 0.00028	0.00048	<0.00028	<0.00042	<0.00042	<0.00010	<0.00038	<0.00060	<0.00060
Calcium	---	---	---	---	---	---	---	---	---	51.4	37.9	----
Cobalt	< 0.00074	< 0.00074	< 0.0011	0.001	<0.00096	0.0019	0.0018	<0.0012	0.0017	0.0013	0.001	0.0016
Iron	0.13	0.12	< 0.044	**0.59**	0.091	0.074	0.069	**0.38**	**4.1**	**4.7**	**3.09**	**6.55**
Lead	< 0.0016	< 0.0016	< 0.0023	< 0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.00016	<0.0012	0.0034	<0.0030
Magnesium	---	---	---	---	---	---	---	---	---	20.3	14.8	----
Manganese	0.18	0.17	**0.43**	**0.67**	**0.73**	**1.67**	**3.69**	**4.46**	**2.5**	**2.3**	**1.42**	**1.91**
Mercury	0.000098	< 0.000087	< 0.000067	< 0.000029	<0.000029	0.000048	<0.00009	<0.00009	<0.000070	<0.00010	<0.00010	<0.00010
Potassium	---	---	---	---	---	---	---	---	---	0.725	0.502	----
Sodium	---	---	---	---	---	---	---	---	---	1.9	1.38	----
Vanadium	0.0011	0.00075	< 0.00096	0.0012	0.0011	<0.00071	<0.0019	<0.0019	0.00061	0.0032	<0.0020	0.0059
Dissolved Gases, ug/L												
Ethane	< 0.6	< 0.3	< 0.3	< 0.28	---	----	----	----	----	----	----	----
Ethene	< 0.58	< 0.29	< 0.29	< 0.26	---	----	----	----	----	----	----	----
Methane	130	210	47	47	---	----	----	----	----	----	----	----
Natural Attenuation Parameters, mg/L												
Chloride	9.7	8.6	5.6	2.6	1.4	2.8	4.9	2	1.0	3.2	2.9	----
Nitrate as N	0.48	0.37	0.28	0.47	0.088	1.3	0.16	0.094	----	----	----	----
Sulfate	5.7	10.1	5.5	4.6	3.6	6.5	3.4	4.5	----	4.7	3.7	----
Total Alkalinity	260	220	260	190	---	----	270	240	180	182	165	223
Total Organic Carbon	2	1	2	2	---	----	0.7	2	----	----	----	----
pH	7.15	7.18	7.16	---	7.31	6.87	7.38	7.24	8.43	6.69	7.23	7.16
Conductivity (mS/cm)	0.529	0.469	0.492	---	0.361	249	302	301	310	0.265	0.234	0.340
Temperature (C)	10.98	8.72	10.56	---	10.95	9.11	9.75	9.41	9.1	9.59	8.49	10.16
ORP (mV)	112	159	157	---	208	164.4	35.8	33.5	22.7	-40.6	-93.8	-94.9
Dissolved Oxygen (mg/L)	1.21	2.42	3.63	---	4.17	4.32	2.98	3.2	4.8	5.22	4.49	1.43

Note: Please see notes provided at the end of this table.

Table 1
PZ-5
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/27/2016	4/20/2017	PAL	ES
1,2,4-Trimethylbenzene	---	**673**	96	480
1,3,5-Trimethylbenzene	---	<5	96	480
2-Hexanone	---	<11.1	-----	-----
Acetone	---	<29.5	1800	9000
Benzene	---	<5.0	0.5	5
sec-Butylbenzene	---	<21.9	-----	-----
tert-Butylbenzene	---	2.1		
Isopropylbenzene	---	5.1		
n-Propylbenzene	---	11.6	-----	-----
p-Isopropyltoluene	---	13.5		
Methylene chloride	---	<2.3	0.5	5
Xylenes (total)	---	<15	400	2,000

Metals, mg/L				
Arsenic	<0.0072	0.0073	0.001	0.01
Barium	0.132	0.155	0.4	2
Cadmium	<0.00060	<0.0013	0.0005	0.005
Calcium	----	----	----	----
Cobalt	0.0014	0.0018	0.008	0.04
Iron	**6.26**	**7.7**	0.15	0.3
Lead	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	----	----	----
Manganese	**1.19**	**1.13**	0.060	0.300
Mercury	<0.00018	<0.00013	0.0002	0.002
Potassium	----	----	----	----
Sodium	----	----	----	----
Vanadium	<0.0020	<0.0022	0.006	0.03

Dissolved Gases, ug/L				
Ethane	----	----	----	----
Ethene	----	----	----	----
Methane	----	----	----	----

Natural Attenuation Parameters, mg/L				
Chloride	----	----	125	250
Nitrate as N	----	----	2	10
Sulfate	----	----	125	250
Total Alkalinity	186	206	----	----
Total Organic Carbon	----	----	----	----

pH	7.52	7.12	----	----
Conductivity (mS/cm)	0.257	0.278	----	----
Temperature (C)	9.13	8.91	----	----
ORP (mV)	-95.4	-73.8	----	----
Dissolved Oxygen (mg/L)	2.24	4.24	----	----

Note: Please see notes provided at the end of this table.

Table 1
Ackerman
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/22/2003	10/7/2003	9/23/2004	6/8/2005	6/9/2006	9/7/2006	6/21/2007	9/10/2007	5/7/2008	7/10/2008	4/29/2010	4/18/2012
1,2,4-Trimethylbenzene	< 0.37	< 0.14	<0.12	<0.12	0.16	<0.12	<0.12	<0.12	<0.20	----	<0.20	<0.22
1,3,5-Trimethylbenzene	< 0.4	< 0.18	<0.16	<0.16	<0.16	<0.16	<0.096	<0.096	<0.20	----	<0.20	<0.23
Acetone	< 1.1	< 0.66	<0.74	<0.74	1.3	<0.74	<1.1	<1.1	----	----	----	----
Chloromethane	< 0.49	< 0.26	<0.14	<0.14	0.17	<0.14	<0.3	<0.3	<0.20	----	<0.30	<0.24
	(No VOCs Detected)											
Metals, mg/L												
Arsenic	< 0.0021	< 0.0029	<0.0026	<0.0026	<0.0043	<0.0043	<0.0043	<0.0043	<0.0012	----	<0.00061	<0.00015
Barium	0.024	0.023	0.022	0.0217	0.0202	0.0181	0.0217	0.0197	0.024	----	0.022	0.020
Cadmium	< 0.00028	< 0.00036	<0.00028	<0.00028	<0.00042	<0.00042	<0.00042	<0.00042	<0.00012	----	<0.00061	<0.00010
Calcium	----	----	----	----	----	----	----	----	----	----	----	----
Cobalt	< 0.00074	< 0.0011	<0.00096	<0.00096	<0.0012	<0.0012	<0.0012	<0.0012	<0.00012	----	<0.00061	<0.00013
Iron	**5.9**	**1.7**	**5.4**	**3.8**	**4.1**	**0.57**	**4.4**	**0.88**	**6.5**	----	**4.4**	**3.5**
Lead	0.0034	< 0.0023	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	**0.28**	0.00014	<0.00061	0.0027
Magnesium	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	0.12	0.085	0.13	0.105	0.116	0.138	0.132	0.148	0.11	----	0.11	0.120
Mercury	< 0.000087	< 0.000067	0.000061	0.000044	<0.00009	<0.00009	<0.00009	<0.00009	0.000066	----	<0.000065	<0.000070
Potassium	----	----	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----	----	----
Vanadium	< 0.00067	< 0.00096	<0.00071	<0.00071	<0.0019	<0.0019	<0.0019	<0.0019	<0.00012	----	<0.00061	<0.00034

Note: Please see notes provided at the end of this table.

Table 1
Ackerman
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	**5/15/2013**	**4/29/2014**	**10/16/2015**	**4/21/2017**	**PAL**	**ES**
1,2,4-Trimethylbenzene	----	<0.50	<0.50	<0.50	96	480
1,3,5-Trimethylbenzene	----	<0.50	<0.50	<0.50	96	480
Acetone	<2.6	<3.0	<3.0	<3.0	1800	9000
Chloromethane	<0.39	<0.50	<0.50	<0.50	3	30
(Nc						
Metals, mg/L						
Arsenic	<0.0044	<0.0072	<0.0072	<0.0083	0.001	0.01
Barium	0.0228	0.0173	0.021	0.0218	0.4	2
Cadmium	<0.00038	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	69.9	60.7	----	----	----	----
Cobalt	<0.00085	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	**4.38**	**3.42**	**4.53**	**5.87**	0.15	0.3
Lead	<0.0012	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	18.4	16.5	----	----	----	----
Manganese	0.129	0.143	0.127	0.158	0.060	0.300
Mercury	<0.00010	<0.00010	<0.00010	<0.00013	0.0002	0.002
Potassium	2.77	2.4	----	----	----	----
Sodium	7.78	6.5	----	----	----	----
Vanadium	<0.0012	<0.0020	<0.0020	<0.0022	0.006	0.03

Note: Please see notes provided at the end of this table.

Table 1
Berkich
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/22/2003	10/8/2003	9/23/2004	12/2/2004	3/10/2005	6/9/2005	3/23/2006	9/7/2006	3/22/2007	9/10/2007	4/10/2008	4/15/2009
1,2,4-Trimethylbenzene	< 0.37	0.18	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.20	<0.20
1,3,5-Trimethylbenzene	< 0.4	< 0.18	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.096	<0.20	<0.20
Acetone	< 1.1	< 0.66	<0.74	<0.74	<0.74	<0.74	0.77	0.82	<0.74	<1.1	----	----
Chloromethane	< 0.49	< 0.26	0.18	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.3	<0.20	<0.30
Methylene chloride	< 0.29	< 0.28	<0.19	0.4	<0.19	<0.19	<0.19	0.2	0.24	<0.33	<1.0	<1.0
Toluene	< 0.39	< 0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.13	0.21	<0.50
Metals, mg/L												
Arsenic	< 0.0021	< 0.0029	<0.0026	<0.0026	<0.0026	<0.0026	<0.0043	<0.0043	<0.0043	<0.0043	0.00051	0.00058
Barium	0.084	0.087	0.083	0.089	0.0751	0.116	0.0827	0.0815	0.0829	0.0726	0.085	0.11
Cadmium	< 0.00028	< 0.00036	<0.00028	<0.00028	<0.00028	<0.00028	<0.00042	<0.00042	<0.00042	<0.00042	<0.00001	<0.00012
Calcium	----	----	----	----	----	----	----	----	----	----	----	----
Cobalt	< 0.00074	< 0.0011	<0.00096	<0.00096	<0.00096	<0.00096	<0.0012	<0.0012	<0.0012	<0.0012	0.00014	<0.00012
Iron	0.16	0.16	0.079	0.17	0.0576	**0.72**	0.038	<0.032	0.06	0.033	0.012	0.16
Lead	< 0.0016	< 0.0023	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.00044	<0.00012
Magnesium	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	0.2	**0.32**	**0.35**	0.2	0.0424	**0.948**	0.0477	0.295	0.0378	0.277	0.13	0.054
Mercury	< 0.000087	< 0.000067	<0.000029	<0.000029	<0.000029	0.000086	<0.00009	<0.00009	<0.00009	<0.00009	<0.000065	<0.000065
Potassium	----	----	----	----	----	----	----	----	----	----	----	----
Sodium	----	----	----	----	----	----	----	----	----	----	----	----
Vanadium	< 0.00067	< 0.00096	<0.00071	<0.00071	<0.00071	<0.00071	<0.0019	<0.0019	<0.0019	<0.0019	<0.00010	<0.00012
Natural Attenuation Parameters, mg/L												
pH	----	----	----	----	----	----	----	----	----	----	7.67	----
Conductivity (mS/cm)	----	----	----	----	----	----	----	----	----	----	256	----
Temperature (C)	----	----	----	----	----	----	----	----	----	----	-10.1	----
ORP (mV)	----	----	----	----	----	----	----	----	----	----	-97.1	----
Dissolved Oxygen (mg/L)	----	----	----	----	----	----	----	----	----	----	2.00	----
Chloride	----	----	----	----	----	----	----	----	----	----	----	----
Nitrate as N	----	----	----	----	----	----	----	----	----	----	----	----
Sulfate	----	----	----	----	----	----	----	----	----	----	----	----
Total Alkalinity	----	----	----	----	----	----	----	----	----	----	----	----
Total Organic Carbon	----	----	----	----	----	----	----	----	----	----	----	----

Note: Please see notes provided at the end of this table.

Table 1
Berkich
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	4/29/2010	4/19/2012	5/15/2013	4/29/2014	10/16/2015	12/2/2015	4/21/2017	PAL	ES
1,2,4-Trimethylbenzene	<0.20	<0.22	----	<0.50	<0.50	----	<0.50	96	480
1,3,5-Trimethylbenzene	<0.20	<0.23	----	<0.50	<0.50	----	<0.50	96	480
Acetone	----	----	<2.6	<3.0	<3.0	----	<3.0	1800	9000
Chloromethane	<0.30	<0.24	<0.39	<0.50	<0.50	----	<0.50	3	30
Methylene chloride	<1.0	<0.63	<0.36	<0.23	<0.23	----	<0.23	0.5	5
Toluene	<0.50	<0.15	<0.44	<0.50	<0.50	----	<0.50	160	800
Metals, mg/L									
Arsenic	<0.00061	0.00066	<0.0044	<0.0072	<0.0072	<0.0072	<0.0083	0.001	0.01
Barium	0.073	0.091	0.153	0.118	0.124	0.133	0.126	0.4	2
Cadmium	<0.00061	<0.00010	<0.00038	<0.00060	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	----	60	50.1	----	----	----	----	----
Cobalt	<0.00061	<0.00013	<0.00085	<0.00094	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	0.280	0.089	<0.0140	<0.0129	<0.0129	<0.0129	0.0611J	0.15	0.3
Lead	<0.00061	0.0037	<0.0012	<0.0030	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	----	16.8	14.5	----	----	----	----	----
Manganese	0.050	0.190	0.209	0.158	**0.394**	0.131	0.132	0.060	0.300
Mercury	<0.000065	<0.00070	<0.00010	<0.00010	<0.00010	<0.00010	<0.00013	0.0002	0.002
Potassium	----	----	4.11	3.21	----	----	----	----	----
Sodium	----	----	7.59	5.61	----	----	----	----	----
Vanadium	<0.00061	<0.00034	<0.0012	<0.0020	<0.0020	<0.0020	<0.0022	0.006	0.03
Natural Attenuation Parameters, mg/L									
pH	U	----	7.73	----	----	----	----	----	----
Conductivity (mS/cm)	U	----	0.295	----	----	----	----	----	----
Temperature (C)	U	----	7.02	----	----	----	----	----	----
ORP (mV)	U	----	72.7	----	----	----	----	----	----
Dissolved Oxygen (mg/L)	U	----	2.84	----	----	----	----	----	----
Chloride	----	----	11.1	11.4	----	----	----	125	250
Nitrate as N	----	----	----	----	----	----	----	2	10
Sulfate	----	----	11.9	8.6	----	----	----	125	250
Total Alkalinity	----	----	----	----	----	----	----	----	----
Total Organic Carbon	----	----	-----	----	----	----	----	----	----

Note: Please see notes provided at the end of this table.

Table 1
Marshall
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	7/16/2013	4/29/2014	10/16/2015	4/21/2017	PAL	ES
Acetone	<2.6	<3.0	<3.0	<3.0	1800	9000
Chloromethane	<0.39	<0.50	<0.50	<0.50	3	30
Methylene chloride	<0.36	<0.23	<0.23	<0.23	0.5	5
Toluene	0.73	<0.50	<0.50	<0.50	160	800

Metals, mg/L						
Arsenic	<0.0044	<0.0072	<0.0072	<0.0083	0.001	0.01
Barium	0.0331	0.0259	0.0284	0.0348	0.4	2
Cadmium	<0.00038	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	65.4	----	----	----	----
Cobalt	<0.00085	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	**6.72**	**4.25**	**4**	**5.4**	0.15	0.3
Lead	0.0026	<0.0030	<0.0030	<0.0043	0.0015	0.015
Magnesium	----	16.2	----	----	----	----
Manganese	0.143	0.109	0.112	0.119	0.060	0.300
Mercury	<0.00010	<0.00010	<0.00010	<0.00013	0.0002	0.002
Potassium	----	2.49	----	----	----	----
Sodium	----	3.79	----	----	----	----
Vanadium	<0.0012	<0.0020	<0.0020	<0.0022	0.006	0.03

Note: Please see notes provided at the end of this table.

Table 1
Elvin (New)
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	7/16/2013	4/29/2014	10/16/2015	4/21/2017	PAL	ES
Acetone	<2.6	<0.30	<3.0	4.1J	1800	9000
Benzene	<0.50	<0.50	<0.50	<0.50	0.5	5
Chloromethane	<0.39	<0.50	<0.50	<0.50	3	30
Methylene chloride	<0.36	<0.23	<0.23	<0.23	0.5	5
Toluene	0.88	<0.50	<0.50	<0.50	160	800
Metals, mg/L						
Arsenic	<0.0044	<0.0072	<0.0072	<0.0083	0.001	0.01
Barium	0.0250	0.0189	0.0209	0.0206	0.4	2
Cadmium	<0.00038	<0.00060	<0.00060	<0.0013	0.0005	0.005
Calcium	----	62.5	----	----	----	----
Cobalt	<0.00085	<0.00094	<0.00094	<0.0014	0.008	0.04
Iron	**6.6**	**5.49**	**4.82**	**4.12**	0.15	0.3
Lead	<0.0012	<0.0030	0.0033	<0.0043	0.0015	0.015
Magnesium	----	16.3	----	----	----	----
Manganese	0.120	0.100	0.101	0.096	0.060	0.300
Mercury	<0.00010	<0.00010	<0.00010	<0.00013	0.0002	0.002
Potassium	----	2.28	----	----	----	----
Sodium	----	5.86	----	----	----	----
Vanadium	<0.0012	<0.0020	<0.0020	<0.0022	0.006	0.03

Note: Please see notes provided at the end of this table.

Table 1
TB
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	12/12/2002	12/12/2002	4/22/2003	10/7/2003 (133874)	10/8/2003 (133875)	4/14/2004 (K544)	4/14/2004 (K581)	9/24/2004	12/2/2004	3/10/2005	(029) 6/9/2005	(041) 6/9/2005
1,1,1-Trichloroethane	< 0.39	< 0.39	< 0.39	< 0.18	< 0.18	< 0.18	< 0.18	<0.21	<0.21	<0.21	<0.21	<0.21
1,1,2,2-Tetrachloroethane	< 0.36	< 0.36	< 0.36	< 0.23	< 0.23	< 0.23	< 0.23	<0.22	<0.22	<0.22	<0.22	<0.22
1,1,2-Trichloroethane	< 0.36	< 0.36	< 0.36	< 0.21	< 0.21	< 0.21	< 0.21	<0.22	<0.22	<0.22	<0.22	<0.22
1,1-Dichloroethane	< 0.3	< 0.3	< 0.3	< 0.26	< 0.26	< 0.26	< 0.26	<0.21	<0.21	<0.21	<0.21	<0.21
1,1-Dichloroethene	< 0.31	< 0.31	< 0.31	< 0.22	< 0.22	< 0.22	< 0.22	<0.18	<0.18	<0.18	0.3	<0.18
1,2,4-Trimethylbenzene	< 0.37	< 0.37	< 0.37	< 0.14	< 0.14	< 0.14	< 0.14	<0.12	<0.12	<0.12	<0.12	<0.12
1,2-Dichloroethane	< 0.28	< 0.28	< 0.28	< 0.22	< 0.22	< 0.22	< 0.22	<0.16	<0.16	<0.16	<0.16	<0.16
1,2-Dichloropropane	< 0.41	< 0.41	< 0.41	< 0.18	< 0.18	< 0.18	< 0.18	<0.15	<0.15	<0.15	<0.15	<0.15
1,3,5-Trimethylbenzene	< 0.4	< 0.4	< 0.4	< 0.18	< 0.18	< 0.18	< 0.18	<0.16	<0.16	<0.16	<0.16	<0.16
2-Butanone	< 0.59	< 0.59	2.2	0.45	< 0.36	1	1.1	3.3	2.5	<0.39	<0.39	<0.39
2-Hexanone	< 0.58	< 0.58	< 0.58	< 0.31	< 0.31	< 0.31	< 0.31	<0.35	0.42	<0.35	0.54	0.37
4-Methyl-2-pentanone	< 0.26	< 0.26	< 0.26	< 0.34	< 0.34	< 0.34	< 0.34	<0.32	<0.32	<0.32	0.68	0.51
Acetone	< 1.1	< 1.1	3.5	1	0.66	1.9	2.1	7.4	5	6.6	4.1	<0.74
Benzene	< 0.37	< 0.37	< 0.37	< 0.2	< 0.2	< 0.2	0.32	<0.22	<0.22	<0.22	<0.22	<0.22
Bromodichloromethane	< 0.32	< 0.32	< 0.32	< 0.2	< 0.2	< 0.2	< 0.2	<0.14	<0.14	<0.14	<0.14	<0.14
Bromoform	< 0.37	< 0.37	< 0.37	< 0.32	< 0.32	< 0.32	< 0.32	<0.17	<0.17	<0.17	<0.17	<0.17
Bromomethane	< 0.3	< 0.3	< 0.3	< 0.16	< 0.16	< 0.16	< 0.16	<0.36	<0.36	<0.36	<0.36	<0.36
Carbon disulfide	< 0.24	< 0.24	< 0.24	< 0.21	< 0.21	< 0.21	< 0.21	<0.28	<0.28	<0.28	<0.28	<0.28
Carbon tetrachloride	< 0.37	< 0.37	< 0.37	< 0.18	< 0.18	< 0.18	< 0.18	<0.19	<0.19	<0.19	<0.19	<0.19
Chlorobenzene	< 0.38	< 0.38	< 0.38	< 0.16	< 0.16	< 0.16	< 0.16	<0.2	<0.2	<0.2	<0.2	<0.2
Chloroethane	< 0.29	< 0.29	< 0.29	< 0.22	< 0.22	< 0.22	< 0.22	<0.24	<0.24	<0.24	<0.24	<0.24
Chloroform	< 0.35	< 0.35	< 0.35	< 0.21	< 0.21	< 0.21	< 0.21	<0.16	<0.16	<0.16	<0.16	<0.16
Chloromethane	< 0.49	< 0.49	< 0.49	< 0.26	< 0.26	< 0.26	< 0.26	<0.14	<0.14	<0.14	<0.14	<0.14
cis-1,2-Dichloroethene	< 0.35	< 0.35	< 0.35	< 0.25	< 0.25	< 0.25	< 0.25	<0.21	<0.21	<0.21	<0.21	<0.21
cis-1,3-Dichloropropene	< 0.35	< 0.35	< 0.35	< 0.15	< 0.15	< 0.15	< 0.15	<0.12	<0.12	<0.12	<0.12	<0.12
Dibromochloromethane	< 0.37	< 0.37	< 0.37	< 0.25	< 0.25	< 0.25	< 0.25	<0.19	<0.19	<0.19	<0.19	<0.19
Ethylbenzene	< 0.41	< 0.41	< 0.41	< 0.19	< 0.19	< 0.19	< 0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Methylene chloride	1.9	2	1	< 0.28	< 0.28	1.4	0.9	**5.9**	1.9	**14**	<0.19	<0.19
Naphthalene	< 0.42	< 0.42	< 0.42	< 0.16	< 0.16	< 0.16	< 0.16	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	< 0.35	< 0.35	< 0.35	< 0.16	< 0.16	< 0.16	< 0.16	<0.13	<0.13	<0.13	<0.13	<0.13
Tetrachloroethene	< 0.42	< 0.42	< 0.42	< 0.12	< 0.12	< 0.12	< 0.12	<0.19	<0.19	<0.19	<0.19	<0.19
Toluene	< 0.39	< 0.39	< 0.39	< 0.17	< 0.17	< 0.17	< 0.17	0.19	0.21	<0.17	<0.17	<0.17
trans-1,2-Dichloroethene	< 0.33	< 0.33	< 0.33	< 0.24	< 0.24	< 0.24	< 0.24	<0.16	<0.16	<0.16	<0.16	<0.16
trans-1,3-Dichloropropene	< 0.35	< 0.35	< 0.35	< 0.17	< 0.17	< 0.17	< 0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Trichloroethene	< 0.42	< 0.42	< 0.42	< 0.22	< 0.22	< 0.22	< 0.22	<0.28	<0.28	<0.28	<0.28	<0.28
Vinyl chloride	< 0.36	< 0.36	< 0.36	< 0.26	< 0.26	< 0.26	< 0.26	<0.21	<0.21	<0.21	<0.21	<0.21
Xylenes (total)	< 0.44	< 0.44	< 0.44	< 0.45	< 0.45	< 0.45	< 0.45	<0.44	<0.44	<0.44	<0.44	<0.44

Note: Please see notes provided at the end of this table.

Table 1
TB
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	3/23/2006	6/9/2006	9/7/2006	3/22/2007	3/23/2007	6/21/2007	9/10/2007	4/9/2008	4/10/2008
1,1,1-Trichloroethane	<0.21	<0.21	<0.21	<0.21	<0.21	<0.22	<0.22	<0.50	<0.50
1,1,2,2-Tetrachloroethane	<0.22	<0.22	<0.22	<0.22	<0.22	<0.18	<0.18	<0.20	<0.20
1,1,2-Trichloroethane	<0.22	<0.22	<0.22	<0.22	<0.22	<0.27	<0.27	<0.25	<0.25
1,1-Dichloroethane	<0.21	<0.21	<0.21	<0.21	<0.21	<0.15	<0.15	<0.50	<0.50
1,1-Dichloroethene	<0.18	<0.18	<0.18	<0.18	<0.18	<0.19	<0.19	<0.50	<0.50
1,2,4-Trimethylbenzene	<0.12	<0.12	<0.12	<0.12	0.76	<0.12	<0.12	<0.20	<0.20
1,2-Dichloroethane	<0.16	<0.16	<0.16	<0.16	<0.16	<0.22	<0.22	<0.50	<0.50
1,2-Dichloropropane	<0.15	<0.15	<0.15	<0.15	<0.15	<0.18	<0.18	<0.50	<0.50
1,3,5-Trimethylbenzene	<0.16	<0.16	<0.16	<0.16	<0.16	<0.096	<0.096	<0.20	<0.20
2-Butanone	<0.39	<0.39	<0.39	<0.39	<0.39	<0.57	<0.57	---	---
2-Hexanone	<0.35	<0.35	<0.35	<0.35	<0.35	<0.41	<0.41	---	---
4-Methyl-2-pentanone	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	---	---
Acetone	1	1.8	1.5	3.4	3.6	<1.1	2.6	---	---
Benzene	<0.22	<0.22	<0.22	<0.22	<0.22	<0.13	<0.13	<0.20	<0.20
Bromodichloromethane	<0.14	<0.14	<0.14	<0.14	<0.14	<0.15	<0.15	<0.20	<0.20
Bromoform	<0.17	<0.17	<0.17	<0.17	<0.17	<0.64	<0.64	<0.20	<0.20
Bromomethane	<0.36	<0.36	<0.36	<0.36	<0.36	<0.41	<0.41	<0.20	<0.20
Carbon disulfide	<0.28	<0.28	<0.28	<0.28	<0.28	<0.13	<0.13	---	---
Carbon tetrachloride	<0.19	<0.19	<0.19	<0.19	<0.19	<0.13	<0.13	<0.50	<0.50
Chlorobenzene	<0.2	<0.2	<0.2	<0.2	<0.2	<0.15	<0.15	<0.20	<0.20
Chloroethane	<0.24	<0.24	<0.24	<0.24	<0.24	<0.29	<0.29	<1.0	<1.0
Chloroform	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.20	<0.20
Chloromethane	<0.14	<0.14	<0.14	<0.14	<0.14	<0.3	<0.3	<0.20	<0.20
cis-1,2-Dichloroethene	<0.21	<0.21	<0.21	<0.21	<0.21	<0.17	<0.17	<0.50	<0.50
cis-1,3-Dichloropropene	<0.12	<0.12	<0.12	<0.12	<0.12	<0.14	<0.14	<0.20	<0.20
Dibromochloromethane	<0.19	<0.19	<0.19	<0.19	<0.19	<0.18	<0.18	<0.20	<0.20
Ethylbenzene	<0.19	<0.19	<0.19	<0.19	<0.19	<0.17	<0.17	<0.50	<0.50
Methylene chloride	1.7	<0.19	0.77	1.7	2.3	<0.33	<0.33	<1.0	<1.0
Naphthalene	<0.15	<0.15	<0.15	<0.15	<0.15	<0.24	<0.24	<0.25	<0.25
Styrene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.11	<0.11	<0.20	<0.20
Tetrachloroethene	<0.19	<0.19	<0.19	<0.19	<0.19	<0.29	<0.29	<0.50	<0.50
Toluene	<0.17	<0.17	<0.17	<0.17	<0.17	<0.13	<0.13	0.21	0.27
trans-1,2-Dichloroethene	<0.16	<0.16	<0.16	<0.16	<0.16	<0.19	<0.19	<0.50	<0.50
trans-1,3-Dichloropropene	<0.17	<0.17	<0.17	<0.17	<0.17	<0.19	<0.19	<0.20	<0.20
Trichloroethene	<0.28	<0.28	<0.28	<0.28	<0.28	<0.17	<0.17	<0.20	<0.20
Vinyl chloride	<0.21	<0.21	<0.21	<0.21	<0.21	<0.22	<0.22	<0.20	<0.20
Xylenes (total)	<0.44	<0.44	<0.44	<0.44	<0.44	<0.28	<0.28	<0.50	<0.50

Note: Please see notes provided at the end of this table.

Table 1
TB
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	5/7/2008	10/8/2008	4/14/2009	10/28/2009	4/28/2010	Duplicate 4/28/10	10/28/2010	10/27/2011	4/18/2012	4/19/2012	6/14/2012	5/16/2013
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.26	<0.26	<0.20	<0.44
1,1,2,2-Tetrachloroethane	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.35	<0.35	<0.23	----
1,1,2-Trichloroethane	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.30	<0.30	<0.28	<0.39
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.24	<0.24	<0.19	<0.28
1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.29	<0.29	<0.31	>0.43
1,2,4-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.22	<0.22	<0.14	----
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.48
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.36	<0.36	<0.20	<0.50
1,3,5-Trimethylbenzene	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.23	<0.23	<0.18	----
2-Butanone	---	---	---	---	---	---	---	---	---	---	---	<2.7
2-Hexanone	---	---	---	---	---	---	---	---	---	---	---	----
4-Methyl-2-pentanone	---	---	---	---	---	---	---	---	---	---	---	----
Acetone	---	---	---	---	---	---	---	---	---	---	---	7.9 J
Benzene	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.12	<0.12	<0.074	<0.50
Bromodichloromethane	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.23	<0.23	<0.17	<0.45
Bromoform	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.45	<0.45	<0.28	<0.23
Bromomethane	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.49	<0.49	<0.31	<0.43
Carbon disulfide	---	---	---	---	---	---	---	---	---	---	---	<0.71
Carbon tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.80	<0.80	<0.80	<0.80	<0.28	<0.28	<0.26	<0.37
Chlorobenzene	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.24	<0.24	<0.14	<0.36
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.33	<0.33	<0.34	<0.44
Chloroform	<0.20	<0.20	0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.25	<0.25	<0.20	<0.69
Chloromethane	<0.20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.3	<0.30	<0.24	<0.24	<0.18	<0.39
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.22	<0.22	<0.12	<0.42
cis-1,3-Dichloropropene	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.28	<0.28	<0.18	<0.29
Dibromochloromethane	<0.20	<0.50	<0.50	<0.50	<0.20	<0.20	<0.20	<0.20	<0.25	<0.25	<0.20	<1.9
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.14	<0.14	<0.13	<0.50
Methylene chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.63	<0.63	<0.68	<0.36
Naphthalene	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.24	<0.24	<0.16	<2.5
Styrene	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.26	<0.26	<0.10	<0.35
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.22	<0.22	<0.17	<0.47
Toluene	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.15	<0.15	<0.11	<0.44
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.27	<0.27	<0.25	<0.37
trans-1,3-Dichloropropene	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.35	<0.35	<0.21	<0.26
Trichloroethene	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.18	<0.18	<0.19	<0.43
Vinyl chloride	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.13	<0.13	<0.10	<0.18
Xylenes (total)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.068	<1.3

Note: Please see notes provided at the end of this table.

Table 1
TB
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	7/16/2013	10/29/2013	4/28/2014	10/28/2014	10/15/2015	4/27/2016	4/27/2016	10/3/2016	10/4/2016	PAL	ES
1,1,1-Trichloroethane	<0.44	<0.44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	40	200
1,1,2,2-Tetrachloroethane	----	<0.38	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.02	0.2
1,1,2-Trichloroethane	<0.39	<0.39	<0.16	<0.16	<0.20	<0.20	<0.20	<0.20	<0.20	0.5	5
1,1-Dichloroethane	<0.28	<0.28	<0.16	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	85	850
1,1-Dichloroethene	<0.43	<0.43	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	0.7	7
1,2,4-Trimethylbenzene	<0.57	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	96	480
1,2-Dichloroethane	<0.48	<0.48	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.5	5
1,2-Dichloropropane	<0.50	<0.50	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	0.5	5
1,3,5-Trimethylbenzene	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	96	480
2-Butanone	<2.7	<2.7	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	90	460
2-Hexanone	----	<2.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	-----	-----
4-Methyl-2-pentanone	----	<2.3	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	50	500
Acetone	6.6 J	<2.6	16.5 J	3.9 J	<3.0	<3.0	<3.0	<3.0	<3.0	1800	9000
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.5	5
Bromodichloromethane	<0.45	<0.45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.06	0.6
Bromoform	<0.23	<0.33	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.44	4.4
Bromomethane	<0.43	<0.43	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	1	10
Carbon disulfide	<0.71	<0.71	<0.51	<0.51	<0.61	<0.61	<0.61	<0.61	<0.61	200	1000
Carbon tetrachloride	<0.37	<0.37	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.5	5
Chlorobenzene	<0.36	<0.36	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-----	-----
Chloroethane	<0.44	<0.44	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	80	400
Chloroform	<0.69	<0.69	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.6	6
Chloromethane	<0.39	<0.39	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3	30
cis-1,2-Dichloroethene	<0.42	<0.42	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	7	70
cis-1,3-Dichloropropene	<0.29	<0.29	<0.15	<0.15	<0.50	<0.50	<0.50	<0.50	<0.50	0.04	0.4
Dibromochloromethane	<1.9	<1.9	<0.32	<0.32	<0.50	<0.50	<0.50	<0.50	<0.50	6	60
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	140	700
Methylene chloride	0.64 J	<0.36	<0.23	0.32 J	<0.23	<0.23	<0.23	<0.23	<0.23	0.5	5
Naphthalene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	10	100
Styrene	<0.35	<0.35	<0.15	<0.15	<0.50	<0.50	<0.50	<0.50	<0.50	10	100
Tetrachloroethene	<0.47	<0.47	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.5	5
Toluene	<0.44	<0.44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	160	800
trans-1,2-Dichloroethene	<0.37	<0.37	<0.24	<0.24	<0.26	<0.26	<0.26	<0.26	<0.26	20	100
trans-1,3-Dichloropropene	<0.26	<0.30	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	0.04	0.4
Trichloroethene	<0.43	<0.36	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.5	5
Vinyl chloride	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.02	0.2
Xylenes (total)	<1.3	<1.3	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	400	2,000

Note: Please see notes provided at the end of this table.

Table 1
FB
Summary of Detected Compounds
Onalaska Superfund Landfill
Braun Intertec Project #LC-13-01254.00

Volatile Organic Compounds (VOC), ug/L	Qualifier	4/18/2012	PAL	ES
Metals, mg/L				
Arsenic		0.00030	0.001	0.01
Barium		0.017	0.4	2
Iron		2.1	0.15	0.3
Lead		0.00089	0.0015	0.015
Manganese		0.170	0.060	0.300
pH		8.3	---	---
Conductivity (mS/cm)		190	---	---
Temperature (C)		13.0	---	---
ORP (mV)		-1.7	---	---
Dissolved Oxygen (mg/L)		7.8	---	---

Note: Please see notes provided at the end of this table.

Table 2. Water Table Elevations
Onalaska Superfund Landfill / Braun Intertec Project #LC-13-01254.00

Well Number	Date	Elevation Top of Casing[1]	Depth to Groundwater	Elevation of Groundwater	VOC	Metals	Alkalinity	Notes
Anderson Well	NM	NM	NM	NM	x	x		Private Well (purge 10 minutes)
AW-1	NM	NM	NM	NM				Abandoned
AW-9	NM	NM	NM	NM				Abandoned
AW-13	4/18/2017	658.85	12.79	646.06	x	x	x	
AW-20	NM	NM	NM	NM				Abandoned
AW-25	NM	NM	NM	NM				Abandoned
AW-28	4/18/2017	660.91	15.02	645.89	x	x	x	
EW-1	NM	NM	NM	NM				Abandoned
EW-2	NM	NM	NM	NM				Abandoned
EW-3	NM	NM	NM	NM				Abandoned
EW-4	NM	NM	NM	NM				Abandoned
EW-5	NM	NM	NM	NM				Abandoned
Taylor Well	NM	NM	NM	NM	x	x		Private Well (purge 10 minutes)
Marshall Well	NM	NM	NM	NM	x	x		Private Well (purge 10 minutes)
MW-1SR	4/18/2017	660.54	13.81	646.73		x	x	
MW-2D	4/18/2017	673.90	27.38	646.52				Water Level Only
MW-2M	4/18/2017	673.64	27.21	646.43		x	x	
MW-2S	4/18/2017	672.85	26.41	646.44	x	x	x	
MW-4S	4/18/2017	665.84	19.93	645.91	x	x	x	
MW-5S	4/18/2017	661.11 [2]	14.88	646.23	x	x	x	**Duplicate (VOCs)**
MW-6M	4/18/2017	649.71	3.92	645.79	x	x	x	
MW-6S	4/18/2017	647.86	2.09	645.77	x	x	x	
MW-7M	4/18/2017	663.74	18.00	645.74		x	x	
MW-8D	4/18/2017	660.60	14.68	645.92				Water Level Only
MW-8M	4/18/2017	660.71	15.06	645.65	x	x	x	
MW-8S	4/18/2017	660.74	15.08	645.66	x	x	x	
MW-9M	4/18/2017	657.32	12.02	645.30		x	x	
MW-10M	4/18/2017	657.74	12.31	645.43		x	x	
MW-11M	4/18/2017	658.35	12.99	645.36		x	x	
MW-12S	4/18/2017	664.22	18.53	645.69		x	x	
MW-14S	4/18/2017	656.05	9.72	646.33	x	x	x	
MW-15M	4/18/2017	656.98	11.30	645.68	x	x	x	
MW-16S	4/18/2017	658.94	12.94	646.00	x	x	x	**Duplicate (VOCs)**
MW-16M	4/18/2017	659.22	13.20	646.02	x	x	x	
MW-17S	4/18/2017	658.51	12.35	646.16	x	x	x	
MW-17M	4/18/2017	658.76	12.55	646.21	x	x	x	
Elvin Well	NM	NM	NM	NM	x	x		Private Well (purge 10 minutes)
PZ-1	4/18/2017	656.40	10.21	646.19	x	x	x	
PZ-2	4/18/2017	651.36	5.29	646.07	x	x	x	
PZ-3	4/18/2017	648.96	2.90	646.06	x	x	x	
PZ-4	4/18/2017	649.13	3.36	645.77	x	x	x	
PZ-5	4/18/2017	661.98	16.15	645.83	x	x	x	
PZ-6	4/18/2017	660.78	15.03	645.75				Water Level Only
Lytle Rd. Hand Pump	NM	NM	NM	NM				Nothing

Notes:
NM = Not Measured
1. Top of Casing elevation surveyed by Coulee Region Land Surveyors, Inc. on April 22, 2003. MW-1SR and Pretasky well were surveyed on April 13, 2004. MW-16S, MW-16M, MW-17S and MW-17M, and MW-5S were surveyed on March 23, 2006.
2. Top of Casing elevation re-surveyed by Braun Intertec on December 22, 2015.

By: K. Nestingen
Date: 12/27/2015
Checked By: M. Gretebeck 12/27/15

W:\DRAFTS\LC\2013\01254.00\2017 Annual Report\[Table 2 Water Levels.xls]Apr 17 DTW

Appendix A
Groundwater Sampling Schedule

ATTACHMENT C

Groundwater Sampling Schedule – Onalaska Landfill

The first round of sampling should be conducted by October 31, 2015, and all wells specified for both April and October rounds below should be included in this round (no April, 2015 sampling was conducted). Thereafter, sampling should be conducted in April and October of each year according to the following schedule.

Wells to be sampled for VOCs, metals, alkalinity (1st & April rounds only), and field parameters are:

April & Oct:	MW-4S, MW-5S, MW-17S, PZ-3, AW-13
April:	MW-2S, MW-6S, MW-6M, MW-8S, MW-8M, MW-14S, MW-15M, MW-16S, MW-16M

Wells to be sampled for metals, alkalinity, and field parameters only (no VOCs, except as noted below for 2017) are:

April:	MW-1SR, MW-2M, MW-7M, MW-9M, MW-10M, MW-11M, MW-12S, MW-17M, PZ-1, PZ-2, PZ-4, PZ-5, AW-28
Oct:	MW-6M, MW-16M

Wells to be sampled for VOCs, alkalinity, and field parameters at 3- to 5-year intervals:

April, 2017:	MW-17M, PZ-1, PZ-2, PZ-4, PZ-5, AW-28

A brief Quality Assurance/Quality Control (QA/QC) Plan, as described by Section 2.10.1 of the WDNR Groundwater Sampling Desk Reference will be required to be submitted for approval, prior to initial sampling.

Samples for metals analysis shall be field filtered. Field natural attenuation parameters (ORP, dissolved oxygen, pH, specific conductance, and temperature) shall be measured using a down-hole instrument or a flow-through cell, in all monitoring wells from which VOC or metals samples are scheduled to be collected. Groundwater elevations are to be collected in all sampling rounds at the above listed wells, plus PZ-6.

Four nearby private water supply wells [Ackerman, Miller, Elvin (formerly Pretasky), and Berkich (formerly Johnson)] shall be sampled during the 1st (October, 2015) and April rounds of sampling for VOCs and metals only. Ensure accessibility of Ackerman well before conducting sampling (may need to delay spring sampling events until homeowner's return in late April). The contractor will be responsible for access arrangements.

Appendix B
Laboratory Analytical Reports

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 05, 2017

Mark Gretebeck
Braun Intertec Corporation
2309 Palace St
La Crosse, WI 54603

RE: Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Dear Mark Gretebeck:
Enclosed are the analytical results for sample(s) received by the laboratory on April 21, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40148754001	MW-1SR	Water	04/18/17 13:27	04/21/17 09:20
40148754002	MW-17M	Water	04/18/17 14:18	04/21/17 09:20
40148754003	MW-17S	Water	04/18/17 14:44	04/21/17 09:20
40148754004	AW-13	Water	04/18/17 15:25	04/21/17 09:20
40148754005	MW-5S	Water	04/18/17 15:52	04/21/17 09:20
40148754006	FIELD BLANK-1	Water	04/18/17 16:00	04/21/17 09:20
40148754007	MW-5S DUP	Water	04/18/17 00:00	04/21/17 09:20
40148754008	MW-16M	Water	04/19/17 09:20	04/21/17 09:20
40148754009	MW-16S	Water	04/19/17 09:44	04/21/17 09:20
40148754010	MW-4S	Water	04/19/17 10:42	04/21/17 09:20
40148754011	MW-12S	Water	04/19/17 12:02	04/21/17 09:20
40148754012	MW-8M	Water	04/19/17 13:58	04/21/17 09:20
40148754013	MW-8S	Water	04/19/17 14:30	04/21/17 09:20
40148754014	MW-7M	Water	04/19/17 15:17	04/21/17 09:20
40148754015	MW-16S DUP	Water	04/19/17 00:00	04/21/17 09:20
40148754016	FIELD BLANK-2	Water	04/20/17 07:00	04/21/17 09:20
40148754017	PZ-5	Water	04/20/17 08:00	04/21/17 09:20
40148754018	PZ-4	Water	04/20/17 09:24	04/21/17 09:20
40148754019	MW-10M	Water	04/20/17 10:05	04/21/17 09:20
40148754020	MW-11M	Water	04/20/17 11:25	04/21/17 09:20
40148754021	MW-9M	Water	04/20/17 10:41	04/21/17 09:20
40148754022	MW-6M	Water	04/20/17 12:50	04/21/17 09:20
40148754023	MW-6S	Water	04/20/17 13:17	04/21/17 09:20
40148754024	PZ-3	Water	04/20/17 13:52	04/21/17 09:20
40148754025	MW-15M	Water	04/20/17 14:35	04/21/17 09:20
40148754026	TRIP BLANK	Water	04/19/17 00:00	04/21/17 09:20

Pace Analytical Services, LLC
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(920)469-2436

SAMPLE ANALYTE COUNT

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40148754001	**MW-1SR**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		SM 2320B	DDY	1
40148754002	**MW-17M**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754003	**MW-17S**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754004	**AW-13**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754005	**MW-5S**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754006	**FIELD BLANK-1**	EPA 8260	HNW	57
40148754007	**MW-5S DUP**	EPA 8260	HNW	57
40148754008	**MW-16M**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754009	**MW-16S**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754010	**MW-4S**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754011	**MW-12S**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		SM 2320B	DDY	1
40148754012	**MW-8M**	EPA 6010	DLB	8

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754013	**MW-8S**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754014	**MW-7M**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		SM 2320B	DDY	1
40148754015	**MW-16S DUP**	EPA 8260	HNW	57
40148754016	**FIELD BLANK-2**	EPA 8260	HNW	57
40148754017	**PZ-5**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754018	**PZ-4**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754019	**MW-10M**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		SM 2320B	DDY	1
40148754020	**MW-11M**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		SM 2320B	DDY	1
40148754021	**MW-9M**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		SM 2320B	DDY	1
40148754022	**MW-6M**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754023	**MW-6S**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40148754024	**PZ-3**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		SM 2320B	DDY	1
40148754025	**MW-15M**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148754026	**TRIP BLANK**	EPA 8260	HNW	57

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40148754001	**MW-1SR**					
EPA 6010	Barium, Dissolved	21.5	ug/L	5.0	04/27/17 15:38	
EPA 6010	Manganese, Dissolved	55.3	ug/L	5.0	04/27/17 15:38	
SM 2320B	Alkalinity, Total as CaCO3	101	mg/L	10.0	04/25/17 14:57	
40148754002	**MW-17M**					
EPA 6010	Arsenic, Dissolved	13.1J	ug/L	20.0	04/27/17 15:51	
EPA 6010	Barium, Dissolved	634	ug/L	5.0	04/27/17 15:51	
EPA 6010	Iron, Dissolved	4920	ug/L	100	04/27/17 15:51	
EPA 6010	Manganese, Dissolved	993	ug/L	5.0	04/27/17 15:51	
SM 2320B	Alkalinity, Total as CaCO3	184	mg/L	10.0	04/25/17 15:03	
40148754003	**MW-17S**					
EPA 6010	Arsenic, Dissolved	10.9J	ug/L	20.0	04/27/17 16:48	
EPA 6010	Barium, Dissolved	172	ug/L	5.0	04/27/17 16:48	
EPA 6010	Iron, Dissolved	12400	ug/L	100	04/27/17 16:48	
EPA 6010	Manganese, Dissolved	1960	ug/L	5.0	04/27/17 16:48	
EPA 8260	1,2,4-Trimethylbenzene	433	ug/L	10.0	04/24/17 11:21	
EPA 8260	Isopropylbenzene (Cumene)	5.2J	ug/L	10.0	04/24/17 11:21	
EPA 8260	n-Propylbenzene	11.3	ug/L	10.0	04/24/17 11:21	
EPA 8260	p-Isopropyltoluene	7.4J	ug/L	10.0	04/24/17 11:21	
EPA 8260	tert-Butylbenzene	3.2J	ug/L	10.0	04/24/17 11:21	
SM 2320B	Alkalinity, Total as CaCO3	235	mg/L	10.0	04/25/17 15:30	
40148754004	**AW-13**					
EPA 6010	Barium, Dissolved	88.8	ug/L	5.0	04/27/17 15:56	
EPA 6010	Manganese, Dissolved	529	ug/L	5.0	04/27/17 15:56	
SM 2320B	Alkalinity, Total as CaCO3	390	mg/L	10.0	04/25/17 17:19	
40148754005	**MW-5S**					
EPA 6010	Arsenic, Dissolved	15.0J	ug/L	20.0	04/27/17 15:59	
EPA 6010	Barium, Dissolved	198	ug/L	5.0	04/27/17 15:59	
EPA 6010	Cobalt, Dissolved	2.5J	ug/L	5.0	04/27/17 15:59	
EPA 6010	Iron, Dissolved	15300	ug/L	100	04/27/17 15:59	
EPA 6010	Manganese, Dissolved	1040	ug/L	5.0	04/27/17 15:59	
EPA 8260	1,2,4-Trimethylbenzene	441	ug/L	10.0	04/24/17 11:44	
EPA 8260	Isopropylbenzene (Cumene)	16.2	ug/L	10.0	04/24/17 11:44	
EPA 8260	n-Propylbenzene	22.6	ug/L	10.0	04/24/17 11:44	
EPA 8260	tert-Butylbenzene	5.9J	ug/L	10.0	04/24/17 11:44	
SM 2320B	Alkalinity, Total as CaCO3	195	mg/L	10.0	04/28/17 13:05	
40148754006	**FIELD BLANK-1**					
EPA 8260	Acetone	3.0J	ug/L	20.0	04/24/17 17:28	
40148754007	**MW-5S DUP**					
EPA 8260	1,2,4-Trimethylbenzene	488	ug/L	5.0	04/24/17 12:53	
EPA 8260	Isopropylbenzene (Cumene)	16.3	ug/L	5.0	04/24/17 12:53	
EPA 8260	n-Butylbenzene	2.9J	ug/L	5.0	04/24/17 12:53	
EPA 8260	n-Propylbenzene	23.3	ug/L	5.0	04/24/17 12:53	
EPA 8260	p-Isopropyltoluene	3.3J	ug/L	5.0	04/24/17 12:53	
EPA 8260	tert-Butylbenzene	6.1	ug/L	5.0	04/24/17 12:53	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40148754008	**MW-16M**					
EPA 6010	Arsenic, Dissolved	30.8	ug/L	20.0	04/27/17 16:02	
EPA 6010	Barium, Dissolved	1030	ug/L	5.0	04/27/17 16:02	
EPA 6010	Iron, Dissolved	15100	ug/L	100	04/27/17 16:02	
EPA 6010	Manganese, Dissolved	963	ug/L	5.0	04/27/17 16:02	
EPA 8260	Chlorobenzene	1.1	ug/L	1.0	04/24/17 14:02	
SM 2320B	Alkalinity, Total as CaCO3	179	mg/L	10.0	04/28/17 13:14	
40148754009	**MW-16S**					
EPA 6010	Barium, Dissolved	131	ug/L	5.0	04/27/17 16:05	
EPA 6010	Iron, Dissolved	305	ug/L	100	04/27/17 16:05	
EPA 6010	Manganese, Dissolved	224	ug/L	5.0	04/27/17 16:05	
EPA 8260	Isopropylbenzene (Cumene)	3.6	ug/L	1.0	04/24/17 14:25	
EPA 8260	n-Butylbenzene	0.65J	ug/L	1.0	04/24/17 14:25	
EPA 8260	n-Propylbenzene	7.1	ug/L	1.0	04/24/17 14:25	
EPA 8260	tert-Butylbenzene	1.1	ug/L	1.0	04/24/17 14:25	
SM 2320B	Alkalinity, Total as CaCO3	396	mg/L	10.0	04/28/17 13:24	
40148754010	**MW-4S**					
EPA 6010	Barium, Dissolved	333	ug/L	5.0	04/27/17 16:07	
EPA 6010	Iron, Dissolved	14500	ug/L	100	04/27/17 16:07	
EPA 6010	Manganese, Dissolved	1120	ug/L	5.0	04/27/17 16:07	
EPA 8260	1,2,4-Trimethylbenzene	913	ug/L	10.0	04/24/17 12:07	
EPA 8260	Isopropylbenzene (Cumene)	13.5	ug/L	10.0	04/24/17 12:07	
EPA 8260	n-Butylbenzene	9.4J	ug/L	10.0	04/24/17 12:07	
EPA 8260	n-Propylbenzene	38.0	ug/L	10.0	04/24/17 12:07	
EPA 8260	p-Isopropyltoluene	17.9	ug/L	10.0	04/24/17 12:07	
EPA 8260	sec-Butylbenzene	22.8J	ug/L	50.0	04/24/17 12:07	
EPA 8260	tert-Butylbenzene	2.2J	ug/L	10.0	04/24/17 12:07	
SM 2320B	Alkalinity, Total as CaCO3	263	mg/L	10.0	04/28/17 13:44	
40148754011	**MW-12S**					
EPA 6010	Barium, Dissolved	16.9	ug/L	5.0	04/27/17 16:10	
SM 2320B	Alkalinity, Total as CaCO3	199	mg/L	10.0	04/28/17 13:56	
40148754012	**MW-8M**					
EPA 6010	Barium, Dissolved	711	ug/L	5.0	04/27/17 16:13	
EPA 6010	Cobalt, Dissolved	1.6J	ug/L	5.0	04/27/17 16:13	
EPA 6010	Iron, Dissolved	334	ug/L	100	04/27/17 16:13	
EPA 6010	Manganese, Dissolved	3670	ug/L	5.0	04/27/17 16:13	
EPA 8260	Chloroethane	0.38J	ug/L	1.0	04/24/17 14:48	
EPA 8260	cis-1,2-Dichloroethene	0.31J	ug/L	1.0	04/24/17 14:48	
SM 2320B	Alkalinity, Total as CaCO3	236	mg/L	10.0	04/28/17 14:06	
40148754013	**MW-8S**					
EPA 6010	Barium, Dissolved	25.9	ug/L	5.0	04/27/17 16:16	
EPA 6010	Manganese, Dissolved	245	ug/L	5.0	04/27/17 16:16	
SM 2320B	Alkalinity, Total as CaCO3	213	mg/L	10.0	04/28/17 14:16	
40148754014	**MW-7M**					
EPA 6010	Barium, Dissolved	272	ug/L	5.0	04/27/17 16:24	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40148754014	**MW-7M**					
EPA 6010	Iron, Dissolved	1700	ug/L	100	04/27/17 16:24	
EPA 6010	Manganese, Dissolved	634	ug/L	5.0	04/27/17 16:24	
SM 2320B	Alkalinity, Total as CaCO3	211	mg/L	10.0	04/28/17 14:25	
40148754015	**MW-16S DUP**					
EPA 8260	Isopropylbenzene (Cumene)	3.5	ug/L	1.0	04/24/17 17:05	
EPA 8260	n-Butylbenzene	0.63J	ug/L	1.0	04/24/17 17:05	
EPA 8260	n-Propylbenzene	7.1	ug/L	1.0	04/24/17 17:05	
EPA 8260	tert-Butylbenzene	1.1	ug/L	1.0	04/24/17 17:05	
40148754017	**PZ-5**					
EPA 6010	Arsenic, Dissolved	7.3J	ug/L	20.0	04/27/17 16:27	
EPA 6010	Barium, Dissolved	155	ug/L	5.0	04/27/17 16:27	
EPA 6010	Cobalt, Dissolved	1.8J	ug/L	5.0	04/27/17 16:27	
EPA 6010	Iron, Dissolved	7700	ug/L	100	04/27/17 16:27	
EPA 6010	Manganese, Dissolved	1130	ug/L	5.0	04/27/17 16:27	
EPA 8260	1,2,4-Trimethylbenzene	673	ug/L	10.0	04/24/17 13:39	
EPA 8260	Isopropylbenzene (Cumene)	5.1J	ug/L	10.0	04/24/17 13:39	
EPA 8260	n-Propylbenzene	11.6	ug/L	10.0	04/24/17 13:39	
EPA 8260	p-Isopropyltoluene	13.5	ug/L	10.0	04/24/17 13:39	
EPA 8260	tert-Butylbenzene	2.1J	ug/L	10.0	04/24/17 13:39	
SM 2320B	Alkalinity, Total as CaCO3	206	mg/L	10.0	04/28/17 14:53	
40148754018	**PZ-4**					
EPA 6010	Arsenic, Dissolved	6.0J	ug/L	20.0	04/27/17 16:29	
EPA 6010	Barium, Dissolved	264	ug/L	5.0	04/27/17 16:29	
EPA 6010	Cobalt, Dissolved	3.2J	ug/L	5.0	04/27/17 16:29	
EPA 6010	Iron, Dissolved	31.4J	ug/L	100	04/27/17 16:29	
EPA 6010	Manganese, Dissolved	3080	ug/L	5.0	04/27/17 16:29	
EPA 8260	Isopropylbenzene (Cumene)	0.34J	ug/L	1.0	04/24/17 16:42	
EPA 8260	cis-1,2-Dichloroethene	0.39J	ug/L	1.0	04/24/17 16:42	
EPA 8260	sec-Butylbenzene	6.0	ug/L	5.0	04/24/17 16:42	
EPA 8260	tert-Butylbenzene	5.9	ug/L	1.0	04/24/17 16:42	
SM 2320B	Alkalinity, Total as CaCO3	287	mg/L	10.0	04/28/17 15:02	
40148754019	**MW-10M**					
EPA 6010	Barium, Dissolved	58.8	ug/L	5.0	04/27/17 16:32	
EPA 6010	Manganese, Dissolved	1440	ug/L	5.0	04/27/17 16:32	
SM 2320B	Alkalinity, Total as CaCO3	183	mg/L	10.0	04/28/17 15:14	
40148754020	**MW-11M**					
EPA 6010	Arsenic, Dissolved	6.8J	ug/L	20.0	04/27/17 16:35	
EPA 6010	Barium, Dissolved	204	ug/L	5.0	04/27/17 16:35	
EPA 6010	Iron, Dissolved	3250	ug/L	100	04/27/17 16:35	
EPA 6010	Manganese, Dissolved	1220	ug/L	5.0	04/27/17 16:35	
SM 2320B	Alkalinity, Total as CaCO3	198	mg/L	10.0	04/28/17 15:22	
40148754021	**MW-9M**					
EPA 6010	Arsenic, Dissolved	6.1J	ug/L	20.0	04/27/17 16:38	
EPA 6010	Barium, Dissolved	161	ug/L	5.0	04/27/17 16:38	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40148754021	**MW-9M**					
EPA 6010	Iron, Dissolved	2300	ug/L	100	04/27/17 16:38	
EPA 6010	Manganese, Dissolved	881	ug/L	5.0	04/27/17 16:38	
SM 2320B	Alkalinity, Total as CaCO3	194	mg/L	10.0	04/28/17 15:31	
40148754022	**MW-6M**					
EPA 6010	Barium, Dissolved	1170	ug/L	5.0	04/27/17 16:40	
EPA 6010	Cobalt, Dissolved	1.9J	ug/L	5.0	04/27/17 16:40	
EPA 6010	Manganese, Dissolved	2280	ug/L	5.0	04/27/17 16:40	
SM 2320B	Alkalinity, Total as CaCO3	145	mg/L	10.0	04/28/17 15:40	
40148754023	**MW-6S**					
EPA 6010	Arsenic, Dissolved	5.6J	ug/L	20.0	04/27/17 16:43	
EPA 6010	Barium, Dissolved	347	ug/L	5.0	04/27/17 16:43	
EPA 6010	Cobalt, Dissolved	3.5J	ug/L	5.0	04/27/17 16:43	
EPA 6010	Iron, Dissolved	366	ug/L	100	04/27/17 16:43	
EPA 6010	Manganese, Dissolved	5400	ug/L	5.0	04/27/17 16:43	
EPA 8260	Isopropylbenzene (Cumene)	0.23J	ug/L	1.0	04/24/17 15:56	
EPA 8260	sec-Butylbenzene	4.5J	ug/L	5.0	04/24/17 15:56	
EPA 8260	tert-Butylbenzene	9.0	ug/L	1.0	04/24/17 15:56	
SM 2320B	Alkalinity, Total as CaCO3	327	mg/L	10.0	04/28/17 15:48	
40148754024	**PZ-3**					
EPA 6010	Barium, Dissolved	113	ug/L	5.0	04/27/17 16:46	
EPA 6010	Cobalt, Dissolved	1.8J	ug/L	5.0	04/27/17 16:46	
EPA 6010	Iron, Dissolved	435	ug/L	100	04/27/17 16:46	
EPA 6010	Manganese, Dissolved	4600	ug/L	5.0	04/27/17 16:46	
SM 2320B	Alkalinity, Total as CaCO3	200	mg/L	10.0	04/28/17 16:01	
40148754025	**MW-15M**					
EPA 6010	Barium, Dissolved	526	ug/L	5.0	05/04/17 13:50	
EPA 6010	Iron, Dissolved	380	ug/L	100	05/04/17 13:50	
EPA 6010	Manganese, Dissolved	2040	ug/L	5.0	05/04/17 13:50	
SM 2320B	Alkalinity, Total as CaCO3	146	mg/L	10.0	04/28/17 16:10	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-1SR **Lab ID: 40148754001** Collected: 04/18/17 13:27 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	20.0	5.4	1		04/27/17 15:38	7440-38-2	
Barium, Dissolved	**21.5**	ug/L	5.0	1.5	1		04/27/17 15:38	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 15:38	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 15:38	7440-48-4	
Iron, Dissolved	**<15.5**	ug/L	100	15.5	1		04/27/17 15:38	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 15:38	7439-92-1	
Manganese, Dissolved	**55.3**	ug/L	5.0	1.1	1		04/27/17 15:38	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 15:38	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 11:25	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**101**	mg/L	10.0	5.0	1		04/25/17 14:57		

Sample: MW-17M **Lab ID: 40148754002** Collected: 04/18/17 14:18 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**13.1J**	ug/L	20.0	5.4	1		04/27/17 15:51	7440-38-2	
Barium, Dissolved	**634**	ug/L	5.0	1.5	1		04/27/17 15:51	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 15:51	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 15:51	7440-48-4	
Iron, Dissolved	**4920**	ug/L	100	15.5	1		04/27/17 15:51	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 15:51	7439-92-1	
Manganese, Dissolved	**993**	ug/L	5.0	1.1	1		04/27/17 15:51	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 15:51	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 11:32	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 12:30	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 12:30	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 12:30	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 12:30	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 12:30	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 12:30	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 12:30	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 12:30	78-87-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-17M **Lab ID: 40148754002** Collected: 04/18/17 14:18 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 12:30	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 12:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 12:30	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 12:30	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 12:30	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 12:30	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 12:30	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 12:30	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 12:30	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 12:30	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 12:30	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/24/17 12:30	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 12:30	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 12:30	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 12:30	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 12:30	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 12:30	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 12:30	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 12:30	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 12:30	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 12:30	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 12:30	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/24/17 12:30	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/24/17 12:30	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 12:30	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 12:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/24/17 12:30	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		04/24/17 12:30	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-17M **Lab ID: 40148754002** Collected: 04/18/17 14:18 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
Toluene-d8 (S)	91	%	70-130		1		04/24/17 12:30	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**184**	mg/L	10.0	5.0	1		04/25/17 15:03		

Sample: MW-17S **Lab ID: 40148754003** Collected: 04/18/17 14:44 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**10.9J**	ug/L	20.0	5.4	1		04/27/17 16:48	7440-38-2	
Barium, Dissolved	**172**	ug/L	5.0	1.5	1		04/27/17 16:48	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:48	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 16:48	7440-48-4	
Iron, Dissolved	**12400**	ug/L	100	15.5	1		04/27/17 16:48	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:48	7439-92-1	
Manganese, Dissolved	**1960**	ug/L	5.0	1.1	1		04/27/17 16:48	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:48	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 11:39	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	71-55-6	
1,1,2,2-Tetrachloroethane	**<2.5**	ug/L	10.0	2.5	10		04/24/17 11:21	79-34-5	
1,1,2-Trichloroethane	**<2.0**	ug/L	10.0	2.0	10		04/24/17 11:21	79-00-5	
1,1-Dichloroethane	**<2.4**	ug/L	10.0	2.4	10		04/24/17 11:21	75-34-3	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		04/24/17 11:21	75-35-4	
1,2,4-Trimethylbenzene	**433**	ug/L	10.0	5.0	10		04/24/17 11:21	95-63-6	
1,2-Dibromo-3-chloropropane	**<21.6**	ug/L	50.0	21.6	10		04/24/17 11:21	96-12-8	
1,2-Dibromoethane (EDB)	**<1.8**	ug/L	10.0	1.8	10		04/24/17 11:21	106-93-4	
1,2-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	95-50-1	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		04/24/17 11:21	107-06-2	
1,2-Dichloropropane	**<2.3**	ug/L	10.0	2.3	10		04/24/17 11:21	78-87-5	
1,3,5-Trimethylbenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	108-67-8	
1,3-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	541-73-1	
1,4-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	106-46-7	
2-Butanone (MEK)	**<29.8**	ug/L	200	29.8	10		04/24/17 11:21	78-93-3	
2-Hexanone	**<11.1**	ug/L	50.0	11.1	10		04/24/17 11:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<21.4**	ug/L	50.0	21.4	10		04/24/17 11:21	108-10-1	
Acetone	**<29.5**	ug/L	200	29.5	10		04/24/17 11:21	67-64-1	
Benzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	71-43-2	
Bromodichloromethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-17S **Lab ID: 40148754003** Collected: 04/18/17 14:44 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	75-25-2	
Bromomethane	**<24.3**	ug/L	50.0	24.3	10		04/24/17 11:21	74-83-9	
Carbon disulfide	**<6.1**	ug/L	50.0	6.1	10		04/24/17 11:21	75-15-0	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	108-90-7	
Chloroethane	**<3.7**	ug/L	10.0	3.7	10		04/24/17 11:21	75-00-3	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		04/24/17 11:21	67-66-3	
Chloromethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	74-87-3	
Dibromochloromethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	124-48-1	
Dibromomethane	**<4.3**	ug/L	10.0	4.3	10		04/24/17 11:21	74-95-3	
Dichlorodifluoromethane	**<2.2**	ug/L	10.0	2.2	10		04/24/17 11:21	75-71-8	
Ethylbenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	100-41-4	
Hexachloro-1,3-butadiene	**<21.1**	ug/L	50.0	21.1	10		04/24/17 11:21	87-68-3	
Isopropylbenzene (Cumene)	**5.2J**	ug/L	10.0	1.4	10		04/24/17 11:21	98-82-8	
Methyl-tert-butyl ether	**<1.7**	ug/L	10.0	1.7	10		04/24/17 11:21	1634-04-4	
Methylene Chloride	**<2.3**	ug/L	10.0	2.3	10		04/24/17 11:21	75-09-2	
Naphthalene	**<25.0**	ug/L	50.0	25.0	10		04/24/17 11:21	91-20-3	
Styrene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	100-42-5	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	127-18-4	
Tetrahydrofuran	**<20.3**	ug/L	50.0	20.3	10		04/24/17 11:21	109-99-9	
Toluene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	108-88-3	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		04/24/17 11:21	79-01-6	
Trichlorofluoromethane	**<1.8**	ug/L	10.0	1.8	10		04/24/17 11:21	75-69-4	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		04/24/17 11:21	75-01-4	
Xylene (Total)	**<15.0**	ug/L	30.0	15.0	10		04/24/17 11:21	1330-20-7	
cis-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		04/24/17 11:21	156-59-2	
cis-1,3-Dichloropropene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	10061-01-5	
n-Butylbenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:21	104-51-8	
n-Propylbenzene	**11.3**	ug/L	10.0	5.0	10		04/24/17 11:21	103-65-1	
p-Isopropyltoluene	**7.4J**	ug/L	10.0	5.0	10		04/24/17 11:21	99-87-6	
sec-Butylbenzene	**<21.9**	ug/L	50.0	21.9	10		04/24/17 11:21	135-98-8	
tert-Butylbenzene	**3.2J**	ug/L	10.0	1.8	10		04/24/17 11:21	98-06-6	
trans-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		04/24/17 11:21	156-60-5	
trans-1,3-Dichloropropene	**<2.3**	ug/L	10.0	2.3	10		04/24/17 11:21	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		10		04/24/17 11:21	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		10		04/24/17 11:21	1868-53-7	
Toluene-d8 (S)	91	%	70-130		10		04/24/17 11:21	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**235**	mg/L	10.0	5.0	1		04/25/17 15:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: AW-13 **Lab ID: 40148754004** Collected: 04/18/17 15:25 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	20.0	5.4	1		04/27/17 15:56	7440-38-2	
Barium, Dissolved	**88.8**	ug/L	5.0	1.5	1		04/27/17 15:56	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 15:56	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 15:56	7440-48-4	
Iron, Dissolved	**<15.5**	ug/L	100	15.5	1		04/27/17 15:56	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 15:56	7439-92-1	
Manganese, Dissolved	**529**	ug/L	5.0	1.1	1		04/27/17 15:56	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 15:56	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 11:41	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 13:16	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 13:16	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 13:16	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 13:16	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 13:16	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 13:16	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 13:16	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 13:16	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 13:16	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 13:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 13:16	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 13:16	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 13:16	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 13:16	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 13:16	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 13:16	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 13:16	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 13:16	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 13:16	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: AW-13 **Lab ID: 40148754004** Collected: 04/18/17 15:25 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/24/17 13:16	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 13:16	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 13:16	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 13:16	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 13:16	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 13:16	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 13:16	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 13:16	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 13:16	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 13:16	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 13:16	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/24/17 13:16	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/24/17 13:16	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 13:16	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 13:16	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/24/17 13:16	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		04/24/17 13:16	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		04/24/17 13:16	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**390**	mg/L	10.0	5.0	1		04/25/17 17:19		

Sample: MW-5S **Lab ID: 40148754005** Collected: 04/18/17 15:52 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**15.0J**	ug/L	20.0	5.4	1		04/27/17 15:59	7440-38-2	
Barium, Dissolved	**198**	ug/L	5.0	1.5	1		04/27/17 15:59	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 15:59	7440-43-9	
Cobalt, Dissolved	**2.5J**	ug/L	5.0	1.4	1		04/27/17 15:59	7440-48-4	
Iron, Dissolved	**15300**	ug/L	100	15.5	1		04/27/17 15:59	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 15:59	7439-92-1	
Manganese, Dissolved	**1040**	ug/L	5.0	1.1	1		04/27/17 15:59	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 15:59	7440-62-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-5S **Lab ID: 40148754005** Collected: 04/18/17 15:52 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 11:44	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	71-55-6	
1,1,2,2-Tetrachloroethane	**<2.5**	ug/L	10.0	2.5	10		04/24/17 11:44	79-34-5	
1,1,2-Trichloroethane	**<2.0**	ug/L	10.0	2.0	10		04/24/17 11:44	79-00-5	
1,1-Dichloroethane	**<2.4**	ug/L	10.0	2.4	10		04/24/17 11:44	75-34-3	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		04/24/17 11:44	75-35-4	
1,2,4-Trimethylbenzene	**441**	ug/L	10.0	5.0	10		04/24/17 11:44	95-63-6	
1,2-Dibromo-3-chloropropane	**<21.6**	ug/L	50.0	21.6	10		04/24/17 11:44	96-12-8	
1,2-Dibromoethane (EDB)	**<1.8**	ug/L	10.0	1.8	10		04/24/17 11:44	106-93-4	
1,2-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	95-50-1	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		04/24/17 11:44	107-06-2	
1,2-Dichloropropane	**<2.3**	ug/L	10.0	2.3	10		04/24/17 11:44	78-87-5	
1,3,5-Trimethylbenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	108-67-8	
1,3-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	541-73-1	
1,4-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	106-46-7	
2-Butanone (MEK)	**<29.8**	ug/L	200	29.8	10		04/24/17 11:44	78-93-3	
2-Hexanone	**<11.1**	ug/L	50.0	11.1	10		04/24/17 11:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<21.4**	ug/L	50.0	21.4	10		04/24/17 11:44	108-10-1	
Acetone	**<29.5**	ug/L	200	29.5	10		04/24/17 11:44	67-64-1	
Benzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	71-43-2	
Bromodichloromethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	75-27-4	
Bromoform	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	75-25-2	
Bromomethane	**<24.3**	ug/L	50.0	24.3	10		04/24/17 11:44	74-83-9	
Carbon disulfide	**<6.1**	ug/L	50.0	6.1	10		04/24/17 11:44	75-15-0	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	108-90-7	
Chloroethane	**<3.7**	ug/L	10.0	3.7	10		04/24/17 11:44	75-00-3	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		04/24/17 11:44	67-66-3	
Chloromethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	74-87-3	
Dibromochloromethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	124-48-1	
Dibromomethane	**<4.3**	ug/L	10.0	4.3	10		04/24/17 11:44	74-95-3	
Dichlorodifluoromethane	**<2.2**	ug/L	10.0	2.2	10		04/24/17 11:44	75-71-8	
Ethylbenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	100-41-4	
Hexachloro-1,3-butadiene	**<21.1**	ug/L	50.0	21.1	10		04/24/17 11:44	87-68-3	
Isopropylbenzene (Cumene)	**16.2**	ug/L	10.0	1.4	10		04/24/17 11:44	98-82-8	
Methyl-tert-butyl ether	**<1.7**	ug/L	10.0	1.7	10		04/24/17 11:44	1634-04-4	
Methylene Chloride	**<2.3**	ug/L	10.0	2.3	10		04/24/17 11:44	75-09-2	
Naphthalene	**<25.0**	ug/L	50.0	25.0	10		04/24/17 11:44	91-20-3	
Styrene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	100-42-5	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	127-18-4	
Tetrahydrofuran	**<20.3**	ug/L	50.0	20.3	10		04/24/17 11:44	109-99-9	
Toluene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	108-88-3	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		04/24/17 11:44	79-01-6	
Trichlorofluoromethane	**<1.8**	ug/L	10.0	1.8	10		04/24/17 11:44	75-69-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-5S **Lab ID: 40148754005** Collected: 04/18/17 15:52 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		04/24/17 11:44	75-01-4	
Xylene (Total)	**<15.0**	ug/L	30.0	15.0	10		04/24/17 11:44	1330-20-7	
cis-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		04/24/17 11:44	156-59-2	
cis-1,3-Dichloropropene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	10061-01-5	
n-Butylbenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	104-51-8	
n-Propylbenzene	**22.6**	ug/L	10.0	5.0	10		04/24/17 11:44	103-65-1	
p-Isopropyltoluene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 11:44	99-87-6	
sec-Butylbenzene	**<21.9**	ug/L	50.0	21.9	10		04/24/17 11:44	135-98-8	
tert-Butylbenzene	**5.9J**	ug/L	10.0	1.8	10		04/24/17 11:44	98-06-6	
trans-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		04/24/17 11:44	156-60-5	
trans-1,3-Dichloropropene	**<2.3**	ug/L	10.0	2.3	10		04/24/17 11:44	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		10		04/24/17 11:44	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		10		04/24/17 11:44	1868-53-7	
Toluene-d8 (S)	91	%	70-130		10		04/24/17 11:44	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**195**	mg/L	10.0	5.0	1		04/28/17 13:05		

Sample: FIELD BLANK-1 **Lab ID: 40148754006** Collected: 04/18/17 16:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 17:28	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 17:28	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 17:28	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 17:28	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 17:28	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 17:28	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 17:28	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 17:28	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 17:28	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 17:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 17:28	108-10-1	
Acetone	**3.0J**	ug/L	20.0	3.0	1		04/24/17 17:28	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: FIELD BLANK-1 **Lab ID: 40148754006** Collected: 04/18/17 16:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 17:28	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 17:28	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 17:28	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 17:28	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 17:28	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 17:28	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 17:28	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/24/17 17:28	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 17:28	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 17:28	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 17:28	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 17:28	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 17:28	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 17:28	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 17:28	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 17:28	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 17:28	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:28	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/24/17 17:28	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/24/17 17:28	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 17:28	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 17:28	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/24/17 17:28	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		04/24/17 17:28	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		04/24/17 17:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-5S DUP **Lab ID: 40148754007** Collected: 04/18/17 00:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.2**	ug/L	5.0	1.2	5		04/24/17 12:53	79-34-5	
1,1,2-Trichloroethane	**<0.99**	ug/L	5.0	0.99	5		04/24/17 12:53	79-00-5	
1,1-Dichloroethane	**<1.2**	ug/L	5.0	1.2	5		04/24/17 12:53	75-34-3	
1,1-Dichloroethene	**<2.1**	ug/L	5.0	2.1	5		04/24/17 12:53	75-35-4	
1,2,4-Trimethylbenzene	**488**	ug/L	5.0	2.5	5		04/24/17 12:53	95-63-6	
1,2-Dibromo-3-chloropropane	**<10.8**	ug/L	25.0	10.8	5		04/24/17 12:53	96-12-8	
1,2-Dibromoethane (EDB)	**<0.89**	ug/L	5.0	0.89	5		04/24/17 12:53	106-93-4	
1,2-Dichlorobenzene	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	95-50-1	
1,2-Dichloroethane	**<0.84**	ug/L	5.0	0.84	5		04/24/17 12:53	107-06-2	
1,2-Dichloropropane	**<1.2**	ug/L	5.0	1.2	5		04/24/17 12:53	78-87-5	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	108-67-8	
1,3-Dichlorobenzene	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	541-73-1	
1,4-Dichlorobenzene	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	106-46-7	
2-Butanone (MEK)	**<14.9**	ug/L	100	14.9	5		04/24/17 12:53	78-93-3	
2-Hexanone	**<5.6**	ug/L	25.0	5.6	5		04/24/17 12:53	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<10.7**	ug/L	25.0	10.7	5		04/24/17 12:53	108-10-1	
Acetone	**<14.8**	ug/L	100	14.8	5		04/24/17 12:53	67-64-1	
Benzene	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	71-43-2	
Bromodichloromethane	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	75-27-4	
Bromoform	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	75-25-2	
Bromomethane	**<12.2**	ug/L	25.0	12.2	5		04/24/17 12:53	74-83-9	
Carbon disulfide	**<3.1**	ug/L	25.0	3.1	5		04/24/17 12:53	75-15-0	
Carbon tetrachloride	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	56-23-5	
Chlorobenzene	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	108-90-7	
Chloroethane	**<1.9**	ug/L	5.0	1.9	5		04/24/17 12:53	75-00-3	
Chloroform	**<12.5**	ug/L	25.0	12.5	5		04/24/17 12:53	67-66-3	
Chloromethane	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	74-87-3	
Dibromochloromethane	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	124-48-1	
Dibromomethane	**<2.1**	ug/L	5.0	2.1	5		04/24/17 12:53	74-95-3	
Dichlorodifluoromethane	**<1.1**	ug/L	5.0	1.1	5		04/24/17 12:53	75-71-8	
Ethylbenzene	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	100-41-4	
Hexachloro-1,3-butadiene	**<10.5**	ug/L	25.0	10.5	5		04/24/17 12:53	87-68-3	
Isopropylbenzene (Cumene)	**16.3**	ug/L	5.0	0.72	5		04/24/17 12:53	98-82-8	
Methyl-tert-butyl ether	**<0.87**	ug/L	5.0	0.87	5		04/24/17 12:53	1634-04-4	
Methylene Chloride	**<1.2**	ug/L	5.0	1.2	5		04/24/17 12:53	75-09-2	
Naphthalene	**<12.5**	ug/L	25.0	12.5	5		04/24/17 12:53	91-20-3	
Styrene	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	100-42-5	
Tetrachloroethene	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	127-18-4	
Tetrahydrofuran	**<10.2**	ug/L	25.0	10.2	5		04/24/17 12:53	109-99-9	
Toluene	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	108-88-3	
Trichloroethene	**<1.7**	ug/L	5.0	1.7	5		04/24/17 12:53	79-01-6	
Trichlorofluoromethane	**<0.92**	ug/L	5.0	0.92	5		04/24/17 12:53	75-69-4	
Vinyl chloride	**<0.88**	ug/L	5.0	0.88	5		04/24/17 12:53	75-01-4	
Xylene (Total)	**<7.5**	ug/L	15.0	7.5	5		04/24/17 12:53	1330-20-7	
cis-1,2-Dichloroethene	**<1.3**	ug/L	5.0	1.3	5		04/24/17 12:53	156-59-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-5S DUP **Lab ID: 40148754007** Collected: 04/18/17 00:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	**<2.5**	ug/L	5.0	2.5	5		04/24/17 12:53	10061-01-5	
n-Butylbenzene	**2.9J**	ug/L	5.0	2.5	5		04/24/17 12:53	104-51-8	
n-Propylbenzene	**23.3**	ug/L	5.0	2.5	5		04/24/17 12:53	103-65-1	
p-Isopropyltoluene	**3.3J**	ug/L	5.0	2.5	5		04/24/17 12:53	99-87-6	
sec-Butylbenzene	**<10.9**	ug/L	25.0	10.9	5		04/24/17 12:53	135-98-8	
tert-Butylbenzene	**6.1**	ug/L	5.0	0.90	5		04/24/17 12:53	98-06-6	
trans-1,2-Dichloroethene	**<1.3**	ug/L	5.0	1.3	5		04/24/17 12:53	156-60-5	
trans-1,3-Dichloropropene	**<1.1**	ug/L	5.0	1.1	5		04/24/17 12:53	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		5		04/24/17 12:53	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		5		04/24/17 12:53	1868-53-7	
Toluene-d8 (S)	92	%	70-130		5		04/24/17 12:53	2037-26-5	

Sample: MW-16M **Lab ID: 40148754008** Collected: 04/19/17 09:20 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**30.8**	ug/L	20.0	5.4	1		04/27/17 16:02	7440-38-2	
Barium, Dissolved	**1030**	ug/L	5.0	1.5	1		04/27/17 16:02	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:02	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 16:02	7440-48-4	
Iron, Dissolved	**15100**	ug/L	100	15.5	1		04/27/17 16:02	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:02	7439-92-1	
Manganese, Dissolved	**963**	ug/L	5.0	1.1	1		04/27/17 16:02	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:02	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 11:46	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 14:02	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 14:02	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 14:02	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 14:02	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 14:02	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 14:02	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 14:02	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 14:02	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	541-73-1	

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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-16M **Lab ID: 40148754008** Collected: 04/19/17 09:20 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 14:02	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 14:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 14:02	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 14:02	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 14:02	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 14:02	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	56-23-5	
Chlorobenzene	**1.1**	ug/L	1.0	0.50	1		04/24/17 14:02	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 14:02	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 14:02	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 14:02	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 14:02	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 14:02	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/24/17 14:02	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 14:02	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 14:02	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 14:02	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 14:02	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 14:02	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 14:02	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 14:02	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 14:02	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 14:02	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:02	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/24/17 14:02	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/24/17 14:02	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 14:02	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 14:02	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/24/17 14:02	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		04/24/17 14:02	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		04/24/17 14:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-16M **Lab ID: 40148754008** Collected: 04/19/17 09:20 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**179**	mg/L	10.0	5.0	1		04/28/17 13:14		

Sample: MW-16S **Lab ID: 40148754009** Collected: 04/19/17 09:44 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	20.0	5.4	1		04/27/17 16:05	7440-38-2	
Barium, Dissolved	**131**	ug/L	5.0	1.5	1		04/27/17 16:05	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:05	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 16:05	7440-48-4	
Iron, Dissolved	**305**	ug/L	100	15.5	1		04/27/17 16:05	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:05	7439-92-1	
Manganese, Dissolved	**224**	ug/L	5.0	1.1	1		04/27/17 16:05	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:05	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 11:48	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 14:25	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 14:25	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 14:25	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 14:25	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 14:25	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 14:25	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 14:25	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 14:25	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 14:25	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 14:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 14:25	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 14:25	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 14:25	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 14:25	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	56-23-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-16S **Lab ID: 40148754009** Collected: 04/19/17 09:44 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 14:25	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 14:25	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 14:25	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 14:25	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 14:25	87-68-3	
Isopropylbenzene (Cumene)	**3.6**	ug/L	1.0	0.14	1		04/24/17 14:25	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 14:25	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 14:25	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 14:25	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 14:25	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 14:25	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 14:25	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 14:25	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 14:25	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 14:25	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	10061-01-5	
n-Butylbenzene	**0.65J**	ug/L	1.0	0.50	1		04/24/17 14:25	104-51-8	
n-Propylbenzene	**7.1**	ug/L	1.0	0.50	1		04/24/17 14:25	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:25	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/24/17 14:25	135-98-8	
tert-Butylbenzene	**1.1**	ug/L	1.0	0.18	1		04/24/17 14:25	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 14:25	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 14:25	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		04/24/17 14:25	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		04/24/17 14:25	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		04/24/17 14:25	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**396**	mg/L	10.0	5.0	1		04/28/17 13:24		

Sample: MW-4S **Lab ID: 40148754010** Collected: 04/19/17 10:42 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	20.0	5.4	1		04/27/17 16:07	7440-38-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-4S **Lab ID: 40148754010** Collected: 04/19/17 10:42 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Barium, Dissolved	**333**	ug/L	5.0	1.5	1		04/27/17 16:07	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:07	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 16:07	7440-48-4	
Iron, Dissolved	**14500**	ug/L	100	15.5	1		04/27/17 16:07	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:07	7439-92-1	
Manganese, Dissolved	**1120**	ug/L	5.0	1.1	1		04/27/17 16:07	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:07	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 11:50	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<2.5**	ug/L	10.0	2.5	10		04/24/17 12:07	79-34-5	
1,1,2-Trichloroethane	**<2.0**	ug/L	10.0	2.0	10		04/24/17 12:07	79-00-5	
1,1-Dichloroethane	**<2.4**	ug/L	10.0	2.4	10		04/24/17 12:07	75-34-3	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		04/24/17 12:07	75-35-4	
1,2,4-Trimethylbenzene	**913**	ug/L	10.0	5.0	10		04/24/17 12:07	95-63-6	
1,2-Dibromo-3-chloropropane	**<21.6**	ug/L	50.0	21.6	10		04/24/17 12:07	96-12-8	
1,2-Dibromoethane (EDB)	**<1.8**	ug/L	10.0	1.8	10		04/24/17 12:07	106-93-4	
1,2-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	95-50-1	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		04/24/17 12:07	107-06-2	
1,2-Dichloropropane	**<2.3**	ug/L	10.0	2.3	10		04/24/17 12:07	78-87-5	
1,3,5-Trimethylbenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	108-67-8	
1,3-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	541-73-1	
1,4-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	106-46-7	
2-Butanone (MEK)	**<29.8**	ug/L	200	29.8	10		04/24/17 12:07	78-93-3	
2-Hexanone	**<11.1**	ug/L	50.0	11.1	10		04/24/17 12:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<21.4**	ug/L	50.0	21.4	10		04/24/17 12:07	108-10-1	
Acetone	**<29.5**	ug/L	200	29.5	10		04/24/17 12:07	67-64-1	
Benzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	71-43-2	
Bromodichloromethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	75-27-4	
Bromoform	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	75-25-2	
Bromomethane	**<24.3**	ug/L	50.0	24.3	10		04/24/17 12:07	74-83-9	
Carbon disulfide	**<6.1**	ug/L	50.0	6.1	10		04/24/17 12:07	75-15-0	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	108-90-7	
Chloroethane	**<3.7**	ug/L	10.0	3.7	10		04/24/17 12:07	75-00-3	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		04/24/17 12:07	67-66-3	
Chloromethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	74-87-3	
Dibromochloromethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	124-48-1	
Dibromomethane	**<4.3**	ug/L	10.0	4.3	10		04/24/17 12:07	74-95-3	
Dichlorodifluoromethane	**<2.2**	ug/L	10.0	2.2	10		04/24/17 12:07	75-71-8	
Ethylbenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	100-41-4	
Hexachloro-1,3-butadiene	**<21.1**	ug/L	50.0	21.1	10		04/24/17 12:07	87-68-3	
Isopropylbenzene (Cumene)	**13.5**	ug/L	10.0	1.4	10		04/24/17 12:07	98-82-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-4S **Lab ID: 40148754010** Collected: 04/19/17 10:42 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Methyl-tert-butyl ether	**<1.7**	ug/L	10.0	1.7	10		04/24/17 12:07	1634-04-4	
Methylene Chloride	**<2.3**	ug/L	10.0	2.3	10		04/24/17 12:07	75-09-2	
Naphthalene	**<25.0**	ug/L	50.0	25.0	10		04/24/17 12:07	91-20-3	
Styrene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	100-42-5	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	127-18-4	
Tetrahydrofuran	**<20.3**	ug/L	50.0	20.3	10		04/24/17 12:07	109-99-9	
Toluene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	108-88-3	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		04/24/17 12:07	79-01-6	
Trichlorofluoromethane	**<1.8**	ug/L	10.0	1.8	10		04/24/17 12:07	75-69-4	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		04/24/17 12:07	75-01-4	
Xylene (Total)	**<15.0**	ug/L	30.0	15.0	10		04/24/17 12:07	1330-20-7	
cis-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		04/24/17 12:07	156-59-2	
cis-1,3-Dichloropropene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 12:07	10061-01-5	
n-Butylbenzene	**9.4J**	ug/L	10.0	5.0	10		04/24/17 12:07	104-51-8	
n-Propylbenzene	**38.0**	ug/L	10.0	5.0	10		04/24/17 12:07	103-65-1	
p-Isopropyltoluene	**17.9**	ug/L	10.0	5.0	10		04/24/17 12:07	99-87-6	
sec-Butylbenzene	**22.8J**	ug/L	50.0	21.9	10		04/24/17 12:07	135-98-8	
tert-Butylbenzene	**2.2J**	ug/L	10.0	1.8	10		04/24/17 12:07	98-06-6	
trans-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		04/24/17 12:07	156-60-5	
trans-1,3-Dichloropropene	**<2.3**	ug/L	10.0	2.3	10		04/24/17 12:07	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		10		04/24/17 12:07	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		10		04/24/17 12:07	1868-53-7	
Toluene-d8 (S)	92	%	70-130		10		04/24/17 12:07	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**263**	mg/L	10.0	5.0	1		04/28/17 13:44		

Sample: MW-12S **Lab ID: 40148754011** Collected: 04/19/17 12:02 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	20.0	5.4	1		04/27/17 16:10	7440-38-2	
Barium, Dissolved	**16.9**	ug/L	5.0	1.5	1		04/27/17 16:10	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:10	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 16:10	7440-48-4	
Iron, Dissolved	**<15.5**	ug/L	100	15.5	1		04/27/17 16:10	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:10	7439-92-1	
Manganese, Dissolved	**<1.1**	ug/L	5.0	1.1	1		04/27/17 16:10	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:10	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 11:53	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-12S **Lab ID: 40148754011** Collected: 04/19/17 12:02 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**199**	mg/L	10.0	5.0	1		04/28/17 13:56		

Sample: MW-8M **Lab ID: 40148754012** Collected: 04/19/17 13:58 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	20.0	5.4	1		04/27/17 16:13	7440-38-2	
Barium, Dissolved	**711**	ug/L	5.0	1.5	1		04/27/17 16:13	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:13	7440-43-9	
Cobalt, Dissolved	**1.6J**	ug/L	5.0	1.4	1		04/27/17 16:13	7440-48-4	
Iron, Dissolved	**334**	ug/L	100	15.5	1		04/27/17 16:13	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:13	7439-92-1	
Manganese, Dissolved	**3670**	ug/L	5.0	1.1	1		04/27/17 16:13	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:13	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 11:55	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 14:48	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 14:48	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 14:48	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 14:48	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 14:48	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 14:48	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 14:48	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 14:48	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 14:48	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 14:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 14:48	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 14:48	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 14:48	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 14:48	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	56-23-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-8M **Lab ID: 40148754012** Collected: 04/19/17 13:58 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	108-90-7	
Chloroethane	**0.38J**	ug/L	1.0	0.37	1		04/24/17 14:48	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 14:48	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 14:48	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 14:48	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 14:48	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/24/17 14:48	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 14:48	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 14:48	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 14:48	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 14:48	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 14:48	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 14:48	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 14:48	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 14:48	1330-20-7	
cis-1,2-Dichloroethene	**0.31J**	ug/L	1.0	0.26	1		04/24/17 14:48	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 14:48	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/24/17 14:48	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/24/17 14:48	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 14:48	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 14:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/24/17 14:48	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		04/24/17 14:48	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		04/24/17 14:48	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**236**	mg/L	10.0	5.0	1		04/28/17 14:06		

Sample: MW-8S **Lab ID: 40148754013** Collected: 04/19/17 14:30 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	20.0	5.4	1		04/27/17 16:16	7440-38-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-8S **Lab ID: 40148754013** Collected: 04/19/17 14:30 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Barium, Dissolved	**25.9**	ug/L	5.0	1.5	1		04/27/17 16:16	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:16	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 16:16	7440-48-4	
Iron, Dissolved	**<15.5**	ug/L	100	15.5	1		04/27/17 16:16	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:16	7439-92-1	
Manganese, Dissolved	**245**	ug/L	5.0	1.1	1		04/27/17 16:16	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:16	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 11:57	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 15:11	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 15:11	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 15:11	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 15:11	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 15:11	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 15:11	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 15:11	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 15:11	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 15:11	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 15:11	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 15:11	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 15:11	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 15:11	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 15:11	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 15:11	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 15:11	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 15:11	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 15:11	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 15:11	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/24/17 15:11	98-82-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-8S **Lab ID: 40148754013** Collected: 04/19/17 14:30 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 15:11	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 15:11	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 15:11	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 15:11	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 15:11	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 15:11	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 15:11	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 15:11	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 15:11	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:11	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/24/17 15:11	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/24/17 15:11	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 15:11	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 15:11	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		04/24/17 15:11	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		04/24/17 15:11	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		04/24/17 15:11	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**213**	mg/L	10.0	5.0	1		04/28/17 14:16		

Sample: MW-7M **Lab ID: 40148754014** Collected: 04/19/17 15:17 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	20.0	5.4	1		04/27/17 16:24	7440-38-2	
Barium, Dissolved	**272**	ug/L	5.0	1.5	1		04/27/17 16:24	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:24	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 16:24	7440-48-4	
Iron, Dissolved	**1700**	ug/L	100	15.5	1		04/27/17 16:24	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:24	7439-92-1	
Manganese, Dissolved	**634**	ug/L	5.0	1.1	1		04/27/17 16:24	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:24	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 12:00	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-7M **Lab ID: 40148754014** Collected: 04/19/17 15:17 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**211**	mg/L	10.0	5.0	1		04/28/17 14:25		

Sample: MW-16S DUP **Lab ID: 40148754015** Collected: 04/19/17 00:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 17:05	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 17:05	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 17:05	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 17:05	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 17:05	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 17:05	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 17:05	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 17:05	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 17:05	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 17:05	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 17:05	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 17:05	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 17:05	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 17:05	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 17:05	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 17:05	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 17:05	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 17:05	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 17:05	87-68-3	
Isopropylbenzene (Cumene)	**3.5**	ug/L	1.0	0.14	1		04/24/17 17:05	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 17:05	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 17:05	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 17:05	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-16S DUP **Lab ID: 40148754015** Collected: 04/19/17 00:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 17:05	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 17:05	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 17:05	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 17:05	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 17:05	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 17:05	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	10061-01-5	
n-Butylbenzene	**0.63J**	ug/L	1.0	0.50	1		04/24/17 17:05	104-51-8	
n-Propylbenzene	**7.1**	ug/L	1.0	0.50	1		04/24/17 17:05	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:05	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/24/17 17:05	135-98-8	
tert-Butylbenzene	**1.1**	ug/L	1.0	0.18	1		04/24/17 17:05	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 17:05	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 17:05	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		04/24/17 17:05	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		04/24/17 17:05	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		04/24/17 17:05	2037-26-5	

Sample: FIELD BLANK-2 **Lab ID: 40148754016** Collected: 04/20/17 07:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 17:51	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 17:51	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 17:51	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 17:51	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 17:51	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 17:51	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 17:51	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 17:51	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 17:51	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 17:51	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 17:51	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: FIELD BLANK-2 **Lab ID: 40148754016** Collected: 04/20/17 07:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 17:51	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 17:51	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 17:51	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 17:51	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 17:51	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 17:51	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 17:51	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 17:51	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/24/17 17:51	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 17:51	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 17:51	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 17:51	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 17:51	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 17:51	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 17:51	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 17:51	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 17:51	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 17:51	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 17:51	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/24/17 17:51	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/24/17 17:51	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 17:51	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 17:51	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		04/24/17 17:51	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		04/24/17 17:51	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		04/24/17 17:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: PZ-5 **Lab ID: 40148754017** Collected: 04/20/17 08:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**7.3J**	ug/L	20.0	5.4	1		04/27/17 16:27	7440-38-2	
Barium, Dissolved	**155**	ug/L	5.0	1.5	1		04/27/17 16:27	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:27	7440-43-9	
Cobalt, Dissolved	**1.8J**	ug/L	5.0	1.4	1		04/27/17 16:27	7440-48-4	
Iron, Dissolved	**7700**	ug/L	100	15.5	1		04/27/17 16:27	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:27	7439-92-1	
Manganese, Dissolved	**1130**	ug/L	5.0	1.1	1		04/27/17 16:27	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:27	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 12:07	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	71-55-6	
1,1,2,2-Tetrachloroethane	**<2.5**	ug/L	10.0	2.5	10		04/24/17 13:39	79-34-5	
1,1,2-Trichloroethane	**<2.0**	ug/L	10.0	2.0	10		04/24/17 13:39	79-00-5	
1,1-Dichloroethane	**<2.4**	ug/L	10.0	2.4	10		04/24/17 13:39	75-34-3	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		04/24/17 13:39	75-35-4	
1,2,4-Trimethylbenzene	**673**	ug/L	10.0	5.0	10		04/24/17 13:39	95-63-6	
1,2-Dibromo-3-chloropropane	**<21.6**	ug/L	50.0	21.6	10		04/24/17 13:39	96-12-8	
1,2-Dibromoethane (EDB)	**<1.8**	ug/L	10.0	1.8	10		04/24/17 13:39	106-93-4	
1,2-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	95-50-1	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		04/24/17 13:39	107-06-2	
1,2-Dichloropropane	**<2.3**	ug/L	10.0	2.3	10		04/24/17 13:39	78-87-5	
1,3,5-Trimethylbenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	108-67-8	
1,3-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	541-73-1	
1,4-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	106-46-7	
2-Butanone (MEK)	**<29.8**	ug/L	200	29.8	10		04/24/17 13:39	78-93-3	
2-Hexanone	**<11.1**	ug/L	50.0	11.1	10		04/24/17 13:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<21.4**	ug/L	50.0	21.4	10		04/24/17 13:39	108-10-1	
Acetone	**<29.5**	ug/L	200	29.5	10		04/24/17 13:39	67-64-1	
Benzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	71-43-2	
Bromodichloromethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	75-27-4	
Bromoform	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	75-25-2	
Bromomethane	**<24.3**	ug/L	50.0	24.3	10		04/24/17 13:39	74-83-9	
Carbon disulfide	**<6.1**	ug/L	50.0	6.1	10		04/24/17 13:39	75-15-0	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	108-90-7	
Chloroethane	**<3.7**	ug/L	10.0	3.7	10		04/24/17 13:39	75-00-3	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		04/24/17 13:39	67-66-3	
Chloromethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	74-87-3	
Dibromochloromethane	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	124-48-1	
Dibromomethane	**<4.3**	ug/L	10.0	4.3	10		04/24/17 13:39	74-95-3	
Dichlorodifluoromethane	**<2.2**	ug/L	10.0	2.2	10		04/24/17 13:39	75-71-8	
Ethylbenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	100-41-4	
Hexachloro-1,3-butadiene	**<21.1**	ug/L	50.0	21.1	10		04/24/17 13:39	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: PZ-5 **Lab ID: 40148754017** Collected: 04/20/17 08:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**5.1J**	ug/L	10.0	1.4	10		04/24/17 13:39	98-82-8	
Methyl-tert-butyl ether	**<1.7**	ug/L	10.0	1.7	10		04/24/17 13:39	1634-04-4	
Methylene Chloride	**<2.3**	ug/L	10.0	2.3	10		04/24/17 13:39	75-09-2	
Naphthalene	**<25.0**	ug/L	50.0	25.0	10		04/24/17 13:39	91-20-3	
Styrene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	100-42-5	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	127-18-4	
Tetrahydrofuran	**<20.3**	ug/L	50.0	20.3	10		04/24/17 13:39	109-99-9	
Toluene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	108-88-3	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		04/24/17 13:39	79-01-6	
Trichlorofluoromethane	**<1.8**	ug/L	10.0	1.8	10		04/24/17 13:39	75-69-4	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		04/24/17 13:39	75-01-4	
Xylene (Total)	**<15.0**	ug/L	30.0	15.0	10		04/24/17 13:39	1330-20-7	
cis-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		04/24/17 13:39	156-59-2	
cis-1,3-Dichloropropene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	10061-01-5	
n-Butylbenzene	**<5.0**	ug/L	10.0	5.0	10		04/24/17 13:39	104-51-8	
n-Propylbenzene	**11.6**	ug/L	10.0	5.0	10		04/24/17 13:39	103-65-1	
p-Isopropyltoluene	**13.5**	ug/L	10.0	5.0	10		04/24/17 13:39	99-87-6	
sec-Butylbenzene	**<21.9**	ug/L	50.0	21.9	10		04/24/17 13:39	135-98-8	
tert-Butylbenzene	**2.1J**	ug/L	10.0	1.8	10		04/24/17 13:39	98-06-6	
trans-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		04/24/17 13:39	156-60-5	
trans-1,3-Dichloropropene	**<2.3**	ug/L	10.0	2.3	10		04/24/17 13:39	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		10		04/24/17 13:39	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		10		04/24/17 13:39	1868-53-7	
Toluene-d8 (S)	92	%	70-130		10		04/24/17 13:39	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**206**	mg/L	10.0	5.0	1		04/28/17 14:53		

Sample: PZ-4 **Lab ID: 40148754018** Collected: 04/20/17 09:24 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**6.0J**	ug/L	20.0	5.4	1		04/27/17 16:29	7440-38-2	
Barium, Dissolved	**264**	ug/L	5.0	1.5	1		04/27/17 16:29	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:29	7440-43-9	
Cobalt, Dissolved	**3.2J**	ug/L	5.0	1.4	1		04/27/17 16:29	7440-48-4	
Iron, Dissolved	**31.4J**	ug/L	100	15.5	1		04/27/17 16:29	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:29	7439-92-1	
Manganese, Dissolved	**3080**	ug/L	5.0	1.1	1		04/27/17 16:29	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:29	7440-62-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: PZ-4 **Lab ID: 40148754018** Collected: 04/20/17 09:24 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 12:09	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 16:42	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 16:42	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 16:42	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 16:42	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 16:42	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 16:42	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 16:42	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 16:42	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 16:42	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 16:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 16:42	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 16:42	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 16:42	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 16:42	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 16:42	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 16:42	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 16:42	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 16:42	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 16:42	87-68-3	
Isopropylbenzene (Cumene)	**0.34J**	ug/L	1.0	0.14	1		04/24/17 16:42	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 16:42	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 16:42	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 16:42	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 16:42	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 16:42	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 16:42	75-69-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: PZ-4 **Lab ID: 40148754018** Collected: 04/20/17 09:24 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 16:42	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 16:42	1330-20-7	
cis-1,2-Dichloroethene	**0.39J**	ug/L	1.0	0.26	1		04/24/17 16:42	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:42	99-87-6	
sec-Butylbenzene	**6.0**	ug/L	5.0	2.2	1		04/24/17 16:42	135-98-8	
tert-Butylbenzene	**5.9**	ug/L	1.0	0.18	1		04/24/17 16:42	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 16:42	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 16:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/24/17 16:42	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		04/24/17 16:42	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		04/24/17 16:42	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**287**	mg/L	10.0	5.0	1		04/28/17 15:02		

Sample: MW-10M **Lab ID: 40148754019** Collected: 04/20/17 10:05 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	20.0	5.4	1		04/27/17 16:32	7440-38-2	
Barium, Dissolved	**58.8**	ug/L	5.0	1.5	1		04/27/17 16:32	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:32	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 16:32	7440-48-4	
Iron, Dissolved	**<15.5**	ug/L	100	15.5	1		04/27/17 16:32	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:32	7439-92-1	
Manganese, Dissolved	**1440**	ug/L	5.0	1.1	1		04/27/17 16:32	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:32	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 12:11	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**183**	mg/L	10.0	5.0	1		04/28/17 15:14		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-11M **Lab ID: 40148754020** Collected: 04/20/17 11:25 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**6.8J**	ug/L	20.0	5.4	1		04/27/17 16:35	7440-38-2	
Barium, Dissolved	**204**	ug/L	5.0	1.5	1		04/27/17 16:35	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:35	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 16:35	7440-48-4	
Iron, Dissolved	**3250**	ug/L	100	15.5	1		04/27/17 16:35	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:35	7439-92-1	
Manganese, Dissolved	**1220**	ug/L	5.0	1.1	1		04/27/17 16:35	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:35	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 12:14	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**198**	mg/L	10.0	5.0	1		04/28/17 15:22		

Sample: MW-9M **Lab ID: 40148754021** Collected: 04/20/17 10:41 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**6.1J**	ug/L	20.0	5.4	1		04/27/17 16:38	7440-38-2	
Barium, Dissolved	**161**	ug/L	5.0	1.5	1		04/27/17 16:38	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:38	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		04/27/17 16:38	7440-48-4	
Iron, Dissolved	**2300**	ug/L	100	15.5	1		04/27/17 16:38	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:38	7439-92-1	
Manganese, Dissolved	**881**	ug/L	5.0	1.1	1		04/27/17 16:38	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:38	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 12:16	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**194**	mg/L	10.0	5.0	1		04/28/17 15:31		

Sample: MW-6M **Lab ID: 40148754022** Collected: 04/20/17 12:50 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	20.0	5.4	1		04/27/17 16:40	7440-38-2	
Barium, Dissolved	**1170**	ug/L	5.0	1.5	1		04/27/17 16:40	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-6M **Lab ID: 40148754022** Collected: 04/20/17 12:50 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:40	7440-43-9	
Cobalt, Dissolved	**1.9J**	ug/L	5.0	1.4	1		04/27/17 16:40	7440-48-4	
Iron, Dissolved	**<15.5**	ug/L	100	15.5	1		04/27/17 16:40	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:40	7439-92-1	
Manganese, Dissolved	**2280**	ug/L	5.0	1.1	1		04/27/17 16:40	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:40	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 12:18	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 15:34	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 15:34	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 15:34	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 15:34	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 15:34	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 15:34	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 15:34	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 15:34	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 15:34	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 15:34	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 15:34	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 15:34	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 15:34	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 15:34	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 15:34	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 15:34	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 15:34	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 15:34	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 15:34	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/24/17 15:34	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 15:34	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-6M **Lab ID: 40148754022** Collected: 04/20/17 12:50 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 15:34	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 15:34	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 15:34	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 15:34	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 15:34	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 15:34	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 15:34	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 15:34	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:34	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/24/17 15:34	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/24/17 15:34	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 15:34	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 15:34	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		04/24/17 15:34	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		04/24/17 15:34	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		04/24/17 15:34	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**145**	mg/L	10.0	5.0	1		04/28/17 15:40		

Sample: MW-6S **Lab ID: 40148754023** Collected: 04/20/17 13:17 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**5.6J**	ug/L	20.0	5.4	1		04/27/17 16:43	7440-38-2	
Barium, Dissolved	**347**	ug/L	5.0	1.5	1		04/27/17 16:43	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:43	7440-43-9	
Cobalt, Dissolved	**3.5J**	ug/L	5.0	1.4	1		04/27/17 16:43	7440-48-4	
Iron, Dissolved	**366**	ug/L	100	15.5	1		04/27/17 16:43	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:43	7439-92-1	
Manganese, Dissolved	**5400**	ug/L	5.0	1.1	1		04/27/17 16:43	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:43	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 12:21	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-6S **Lab ID: 40148754023** Collected: 04/20/17 13:17 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 15:56	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 15:56	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 15:56	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 15:56	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 15:56	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 15:56	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 15:56	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 15:56	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 15:56	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 15:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 15:56	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 15:56	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 15:56	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 15:56	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 15:56	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 15:56	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 15:56	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 15:56	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 15:56	87-68-3	
Isopropylbenzene (Cumene)	**0.23J**	ug/L	1.0	0.14	1		04/24/17 15:56	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 15:56	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 15:56	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 15:56	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 15:56	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 15:56	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 15:56	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 15:56	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 15:56	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 15:56	156-59-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-6S **Lab ID: 40148754023** Collected: 04/20/17 13:17 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 15:56	99-87-6	
sec-Butylbenzene	**4.5J**	ug/L	5.0	2.2	1		04/24/17 15:56	135-98-8	
tert-Butylbenzene	**9.0**	ug/L	1.0	0.18	1		04/24/17 15:56	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 15:56	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 15:56	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/24/17 15:56	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		04/24/17 15:56	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		04/24/17 15:56	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**327**	mg/L	10.0	5.0	1		04/28/17 15:48		

Sample: PZ-3 **Lab ID: 40148754024** Collected: 04/20/17 13:52 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	20.0	5.4	1		04/27/17 16:46	7440-38-2	
Barium, Dissolved	**113**	ug/L	5.0	1.5	1		04/27/17 16:46	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		04/27/17 16:46	7440-43-9	
Cobalt, Dissolved	**1.8J**	ug/L	5.0	1.4	1		04/27/17 16:46	7440-48-4	
Iron, Dissolved	**435**	ug/L	100	15.5	1		04/27/17 16:46	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		04/27/17 16:46	7439-92-1	
Manganese, Dissolved	**4600**	ug/L	5.0	1.1	1		04/27/17 16:46	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		04/27/17 16:46	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	04/24/17 13:20	04/25/17 12:23	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**200**	mg/L	10.0	5.0	1		04/28/17 16:01		

Sample: MW-15M **Lab ID: 40148754025** Collected: 04/20/17 14:35 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Arsenic, Dissolved	**<5.4**	ug/L	20.0	5.4	1		05/04/17 13:50	7440-38-2	

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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-15M **Lab ID: 40148754025** Collected: 04/20/17 14:35 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Barium, Dissolved	**526**	ug/L	5.0	1.5	1		05/04/17 13:50	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1		05/04/17 13:50	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1		05/04/17 13:50	7440-48-4	
Iron, Dissolved	**380**	ug/L	100	15.5	1		05/04/17 13:50	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1		05/04/17 13:50	7439-92-1	
Manganese, Dissolved	**2040**	ug/L	5.0	1.1	1		05/04/17 13:50	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1		05/04/17 13:50	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	05/04/17 13:05	05/05/17 10:41	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 16:19	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 16:19	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 16:19	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 16:19	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 16:19	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 16:19	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 16:19	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 16:19	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 16:19	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 16:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 16:19	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 16:19	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 16:19	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 16:19	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 16:19	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 16:19	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 16:19	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 16:19	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 16:19	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/24/17 16:19	98-82-8	

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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: MW-15M **Lab ID: 40148754025** Collected: 04/20/17 14:35 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 16:19	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 16:19	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 16:19	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 16:19	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 16:19	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 16:19	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 16:19	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 16:19	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 16:19	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 16:19	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/24/17 16:19	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/24/17 16:19	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 16:19	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 16:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		04/24/17 16:19	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		04/24/17 16:19	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		04/24/17 16:19	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**146**	mg/L	10.0	5.0	1		04/28/17 16:10		

Sample: TRIP BLANK **Lab ID: 40148754026** Collected: 04/19/17 00:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/24/17 18:14	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/24/17 18:14	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/24/17 18:14	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/24/17 18:14	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/24/17 18:14	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/24/17 18:14	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/24/17 18:14	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/24/17 18:14	78-87-5	

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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: TRIP BLANK **Lab ID: 40148754026** Collected: 04/19/17 00:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/24/17 18:14	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/24/17 18:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/24/17 18:14	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/24/17 18:14	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/24/17 18:14	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/24/17 18:14	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/24/17 18:14	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/24/17 18:14	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/24/17 18:14	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/24/17 18:14	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/24/17 18:14	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/24/17 18:14	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/24/17 18:14	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/24/17 18:14	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/24/17 18:14	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/24/17 18:14	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/24/17 18:14	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/24/17 18:14	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/24/17 18:14	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/24/17 18:14	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 18:14	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/24/17 18:14	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/24/17 18:14	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/24/17 18:14	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/24/17 18:14	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/24/17 18:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/24/17 18:14	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		04/24/17 18:14	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Sample: TRIP BLANK **Lab ID: 40148754026** Collected: 04/19/17 00:00 Received: 04/21/17 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
Toluene-d8 (S)	91	%	70-130		1		04/24/17 18:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

QC Batch: 253831 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40148754001, 40148754002, 40148754003, 40148754004, 40148754005, 40148754008, 40148754009, 40148754010, 40148754011, 40148754012, 40148754013, 40148754014, 40148754017, 40148754018, 40148754019, 40148754020, 40148754021, 40148754022, 40148754023, 40148754024

METHOD BLANK: 1496939 Matrix: Water
Associated Lab Samples: 40148754001, 40148754002, 40148754003, 40148754004, 40148754005, 40148754008, 40148754009, 40148754010, 40148754011, 40148754012, 40148754013, 40148754014, 40148754017, 40148754018, 40148754019, 40148754020, 40148754021, 40148754022, 40148754023, 40148754024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<5.4	20.0	04/27/17 15:32	
Barium, Dissolved	ug/L	<1.5	5.0	04/27/17 15:32	
Cadmium, Dissolved	ug/L	<1.3	5.0	04/27/17 15:32	
Cobalt, Dissolved	ug/L	<1.4	5.0	04/27/17 15:32	
Iron, Dissolved	ug/L	<15.5	100	04/27/17 15:32	
Lead, Dissolved	ug/L	<4.3	13.0	04/27/17 15:32	
Manganese, Dissolved	ug/L	<1.1	5.0	04/27/17 15:32	
Vanadium, Dissolved	ug/L	<2.2	10.0	04/27/17 15:32	

LABORATORY CONTROL SAMPLE: 1496940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	539	108	80-120	
Barium, Dissolved	ug/L	500	528	106	80-120	
Cadmium, Dissolved	ug/L	500	538	108	80-120	
Cobalt, Dissolved	ug/L	500	548	110	80-120	
Iron, Dissolved	ug/L	5000	5220	104	80-120	
Lead, Dissolved	ug/L	500	549	110	80-120	
Manganese, Dissolved	ug/L	500	536	107	80-120	
Vanadium, Dissolved	ug/L	500	533	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496941 1496942

Parameter	Units	40148754001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	<5.4	500	500	554	558	110	111	75-125	1	20	
Barium, Dissolved	ug/L	21.5	500	500	552	551	106	106	75-125	0	20	
Cadmium, Dissolved	ug/L	<1.3	500	500	548	546	110	109	75-125	0	20	
Cobalt, Dissolved	ug/L	<1.4	500	500	554	553	111	111	75-125	0	20	
Iron, Dissolved	ug/L	<15.5	5000	5000	5290	5260	106	105	75-125	1	20	
Lead, Dissolved	ug/L	<4.3	500	500	562	566	112	113	75-125	1	20	
Manganese, Dissolved	ug/L	55.3	500	500	604	601	110	109	75-125	0	20	
Vanadium, Dissolved	ug/L	<2.2	500	500	550	548	110	109	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

QC Batch: 254468
QC Batch Method: EPA 6010
Analysis Method: EPA 6010
Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40148754025

METHOD BLANK: 1500441 Matrix: Water
Associated Lab Samples: 40148754025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<5.4	20.0	05/04/17 13:45	
Barium, Dissolved	ug/L	<1.5	5.0	05/04/17 13:45	
Cadmium, Dissolved	ug/L	<1.3	5.0	05/04/17 13:45	
Cobalt, Dissolved	ug/L	<1.4	5.0	05/04/17 13:45	
Iron, Dissolved	ug/L	<15.5	100	05/04/17 13:45	
Lead, Dissolved	ug/L	<4.3	13.0	05/04/17 13:45	
Manganese, Dissolved	ug/L	<1.1	5.0	05/04/17 13:45	
Vanadium, Dissolved	ug/L	<2.2	10.0	05/04/17 13:45	

LABORATORY CONTROL SAMPLE: 1500442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	475	95	80-120	
Barium, Dissolved	ug/L	500	516	103	80-120	
Cadmium, Dissolved	ug/L	500	513	103	80-120	
Cobalt, Dissolved	ug/L	500	517	103	80-120	
Iron, Dissolved	ug/L	5000	5270	105	80-120	
Lead, Dissolved	ug/L	500	497	99	80-120	
Manganese, Dissolved	ug/L	500	502	100	80-120	
Vanadium, Dissolved	ug/L	500	509	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500443 1500444

Parameter	Units	40148754025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	<5.4	500	500	504	520	100	104	75-125	3	20	
Barium, Dissolved	ug/L	526	500	500	1050	1080	105	110	75-125	3	20	
Cadmium, Dissolved	ug/L	<1.3	500	500	525	542	105	108	75-125	3	20	
Cobalt, Dissolved	ug/L	<1.4	500	500	524	542	105	108	75-125	3	20	
Iron, Dissolved	ug/L	380	5000	5000	5740	5920	107	111	75-125	3	20	
Lead, Dissolved	ug/L	<4.3	500	500	505	522	101	104	75-125	3	20	
Manganese, Dissolved	ug/L	2040	500	500	2470	2510	87	95	75-125	2	20	
Vanadium, Dissolved	ug/L	<2.2	500	500	514	533	103	106	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

QC Batch: 253624 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40148754001, 40148754002, 40148754003, 40148754004, 40148754005, 40148754008, 40148754009, 40148754010, 40148754011, 40148754012, 40148754013, 40148754014, 40148754017, 40148754018, 40148754019, 40148754020, 40148754021, 40148754022, 40148754023, 40148754024

METHOD BLANK: 1496227 Matrix: Water
Associated Lab Samples: 40148754001, 40148754002, 40148754003, 40148754004, 40148754005, 40148754008, 40148754009, 40148754010, 40148754011, 40148754012, 40148754013, 40148754014, 40148754017, 40148754018, 40148754019, 40148754020, 40148754021, 40148754022, 40148754023, 40148754024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	04/25/17 11:20	

LABORATORY CONTROL SAMPLE: 1496228

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.3	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496229 1496230

Parameter	Units	40148754001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.13	5	5	5.2	5.1	103	102	85-115	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

QC Batch: 254659 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40148754025

METHOD BLANK: 1501335 Matrix: Water
Associated Lab Samples: 40148754025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	05/05/17 10:32	

LABORATORY CONTROL SAMPLE: 1501336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501337 1501338

Parameter	Units	40148754025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.13	5	5	4.5	4.6	90	93	85-115	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

QC Batch: 253563 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40148754002, 40148754003, 40148754004, 40148754005, 40148754006, 40148754007, 40148754008, 40148754009, 40148754010, 40148754012, 40148754013, 40148754015, 40148754016, 40148754017, 40148754018, 40148754022, 40148754023, 40148754025, 40148754026

METHOD BLANK: 1496015 Matrix: Water
Associated Lab Samples: 40148754002, 40148754003, 40148754004, 40148754005, 40148754006, 40148754007, 40148754008, 40148754009, 40148754010, 40148754012, 40148754013, 40148754015, 40148754016, 40148754017, 40148754018, 40148754022, 40148754023, 40148754025, 40148754026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/24/17 09:04	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	04/24/17 09:04	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/24/17 09:04	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/24/17 09:04	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/24/17 09:04	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	04/24/17 09:04	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/24/17 09:04	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/24/17 09:04	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/24/17 09:04	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/24/17 09:04	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/24/17 09:04	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	04/24/17 09:04	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/24/17 09:04	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/24/17 09:04	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/24/17 09:04	
2-Hexanone	ug/L	<1.1	5.0	04/24/17 09:04	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.1	5.0	04/24/17 09:04	
Acetone	ug/L	<3.0	20.0	04/24/17 09:04	
Benzene	ug/L	<0.50	1.0	04/24/17 09:04	
Bromodichloromethane	ug/L	<0.50	1.0	04/24/17 09:04	
Bromoform	ug/L	<0.50	1.0	04/24/17 09:04	
Bromomethane	ug/L	<2.4	5.0	04/24/17 09:04	
Carbon disulfide	ug/L	<0.61	5.0	04/24/17 09:04	
Carbon tetrachloride	ug/L	<0.50	1.0	04/24/17 09:04	
Chlorobenzene	ug/L	<0.50	1.0	04/24/17 09:04	
Chloroethane	ug/L	<0.37	1.0	04/24/17 09:04	
Chloroform	ug/L	<2.5	5.0	04/24/17 09:04	
Chloromethane	ug/L	<0.50	1.0	04/24/17 09:04	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/24/17 09:04	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/24/17 09:04	
Dibromochloromethane	ug/L	<0.50	1.0	04/24/17 09:04	
Dibromomethane	ug/L	<0.43	1.0	04/24/17 09:04	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/24/17 09:04	
Ethylbenzene	ug/L	<0.50	1.0	04/24/17 09:04	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	04/24/17 09:04	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	04/24/17 09:04	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/24/17 09:04	
Methylene Chloride	ug/L	<0.23	1.0	04/24/17 09:04	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

METHOD BLANK: 1496015 Matrix: Water

Associated Lab Samples: 40148754002, 40148754003, 40148754004, 40148754005, 40148754006, 40148754007, 40148754008, 40148754009, 40148754010, 40148754012, 40148754013, 40148754015, 40148754016, 40148754017, 40148754018, 40148754022, 40148754023, 40148754025, 40148754026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
n-Butylbenzene	ug/L	<0.50	1.0	04/24/17 09:04	
n-Propylbenzene	ug/L	<0.50	1.0	04/24/17 09:04	
Naphthalene	ug/L	<2.5	5.0	04/24/17 09:04	
p-Isopropyltoluene	ug/L	<0.50	1.0	04/24/17 09:04	
sec-Butylbenzene	ug/L	<2.2	5.0	04/24/17 09:04	
Styrene	ug/L	<0.50	1.0	04/24/17 09:04	
tert-Butylbenzene	ug/L	<0.18	1.0	04/24/17 09:04	
Tetrachloroethene	ug/L	<0.50	1.0	04/24/17 09:04	
Tetrahydrofuran	ug/L	<2.0	5.0	04/24/17 09:04	
Toluene	ug/L	<0.50	1.0	04/24/17 09:04	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/24/17 09:04	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/24/17 09:04	
Trichloroethene	ug/L	<0.33	1.0	04/24/17 09:04	
Trichlorofluoromethane	ug/L	<0.18	1.0	04/24/17 09:04	
Vinyl chloride	ug/L	<0.18	1.0	04/24/17 09:04	
Xylene (Total)	ug/L	<1.5	3.0	04/24/17 09:04	
4-Bromofluorobenzene (S)	%	88	70-130	04/24/17 09:04	
Dibromofluoromethane (S)	%	111	70-130	04/24/17 09:04	
Toluene-d8 (S)	%	91	70-130	04/24/17 09:04	

LABORATORY CONTROL SAMPLE: 1496016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.4	111	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	41.7	83	67-130	
1,1,2-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1-Dichloroethane	ug/L	50	44.4	89	70-133	
1,1-Dichloroethene	ug/L	50	48.0	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	36.0	72	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	70-130	
1,2-Dichlorobenzene	ug/L	50	47.8	96	70-130	
1,2-Dichloroethane	ug/L	50	45.6	91	70-130	
1,2-Dichloropropane	ug/L	50	50.2	100	70-130	
1,3-Dichlorobenzene	ug/L	50	47.4	95	70-130	
1,4-Dichlorobenzene	ug/L	50	50.3	101	70-130	
Benzene	ug/L	50	46.9	94	60-135	
Bromodichloromethane	ug/L	50	52.0	104	70-130	
Bromoform	ug/L	50	54.5	109	70-130	
Bromomethane	ug/L	50	39.2	78	33-130	
Carbon disulfide	ug/L	50	48.8	98	70-139	
Carbon tetrachloride	ug/L	50	56.4	113	70-138	
Chlorobenzene	ug/L	50	52.6	105	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

LABORATORY CONTROL SAMPLE: 1496016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	50	37.2	74	51-130	
Chloroform	ug/L	50	46.6	93	70-130	
Chloromethane	ug/L	50	38.0	76	25-132	
cis-1,2-Dichloroethene	ug/L	50	47.5	95	69-130	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	70-130	
Dibromochloromethane	ug/L	50	53.2	106	70-130	
Dichlorodifluoromethane	ug/L	50	37.9	76	23-130	
Ethylbenzene	ug/L	50	51.7	103	70-136	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	70-140	
Methyl-tert-butyl ether	ug/L	50	42.4	85	66-138	
Methylene Chloride	ug/L	50	45.2	90	70-130	
Styrene	ug/L	50	53.2	106	70-133	
Tetrachloroethene	ug/L	50	58.5	117	70-138	
Toluene	ug/L	50	53.0	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.8	94	70-131	
trans-1,3-Dichloropropene	ug/L	50	42.4	85	69-130	
Trichloroethene	ug/L	50	53.5	107	70-130	
Trichlorofluoromethane	ug/L	50	55.2	110	50-150	
Vinyl chloride	ug/L	50	44.8	90	49-130	
Xylene (Total)	ug/L	150	162	108	70-135	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			112	70-130	
Toluene-d8 (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496102 1496103

Parameter	Units	40148718007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.9	50.1	108	100	70-134	7	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	39.7	41.7	79	83	67-130	5	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	47.8	49.5	96	99	70-130	4	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	42.1	43.9	84	88	70-134	4	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	45.5	47.2	91	94	68-136	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	34.1	37.3	68	75	50-150	9	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	47.3	48.6	95	97	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	45.7	47.6	91	95	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	43.1	45.2	86	90	70-130	5	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	48.4	49.0	97	98	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	45.5	46.6	91	93	70-131	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	48.2	49.8	96	100	70-130	3	20	
Benzene	ug/L	<0.50	50	50	44.4	45.9	89	92	57-138	3	20	
Bromodichloromethane	ug/L	<0.50	50	50	49.5	50.3	99	101	70-130	2	20	
Bromoform	ug/L	<0.50	50	50	51.2	52.9	102	106	70-130	3	20	
Bromomethane	ug/L	<2.4	50	50	38.5	40.5	77	81	33-130	5	27	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496102 1496103

Parameter	Units	40148718007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Carbon disulfide	ug/L	<0.61	50	50	46.6	48.2	93	96	70-153	3	20	
Carbon tetrachloride	ug/L	<0.50	50	50	53.0	55.0	106	110	70-138	4	20	
Chlorobenzene	ug/L	<0.50	50	50	50.6	51.5	101	103	70-130	2	20	
Chloroethane	ug/L	<0.37	50	50	35.5	36.9	71	74	51-130	4	20	
Chloroform	ug/L	<2.5	50	50	43.7	45.6	87	91	70-130	4	20	
Chloromethane	ug/L	<0.50	50	50	36.9	38.0	74	76	25-132	3	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	44.8	46.7	90	93	61-140	4	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	42.7	44.0	85	88	70-130	3	20	
Dibromochloromethane	ug/L	<0.50	50	50	50.4	52.0	101	104	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	35.1	36.1	70	72	23-130	3	20	
Ethylbenzene	ug/L	<0.50	50	50	49.9	51.0	100	102	70-138	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	50.8	51.6	102	103	70-152	1	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	39.7	41.8	79	84	66-139	5	20	
Methylene Chloride	ug/L	<0.23	50	50	42.6	44.8	85	90	70-130	5	20	
Styrene	ug/L	<0.50	50	50	51.3	51.9	103	104	70-138	1	20	
Tetrachloroethene	ug/L	<0.50	50	50	56.1	57.6	112	115	70-148	3	20	
Toluene	ug/L	<0.50	50	50	50.8	51.7	102	103	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	44.4	46.2	89	92	70-133	4	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	40.7	41.8	81	84	69-130	3	20	
Trichloroethene	ug/L	<0.33	50	50	50.9	51.7	102	103	70-131	1	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	52.4	54.4	105	109	50-150	4	20	
Vinyl chloride	ug/L	<0.18	50	50	42.7	44.3	85	89	49-133	4	20	
Xylene (Total)	ug/L	<1.5	150	150	156	158	104	106	70-135	2	20	
4-Bromofluorobenzene (S)	%						97	97	70-130			
Dibromofluoromethane (S)	%						111	99	70-130			
Toluene-d8 (S)	%						93	92	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

QC Batch: 253736 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 40148754001, 40148754002, 40148754003, 40148754004

METHOD BLANK: 1496509 Matrix: Water
Associated Lab Samples: 40148754001, 40148754002, 40148754003, 40148754004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<5.0	10.0	04/25/17 11:02	

LABORATORY CONTROL SAMPLE: 1496510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	200	205	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496511 1496512

Parameter	Units	40148754003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	235	200	200	429	422	97	93	80-120	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

QC Batch: 254095 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 40148754005, 40148754008, 40148754009, 40148754010, 40148754011, 40148754012, 40148754013, 40148754014, 40148754017, 40148754018, 40148754019, 40148754020, 40148754021, 40148754022, 40148754023, 40148754024, 40148754025

METHOD BLANK: 1498494 Matrix: Water
Associated Lab Samples: 40148754005, 40148754008, 40148754009, 40148754010, 40148754011, 40148754012, 40148754013, 40148754014, 40148754017, 40148754018, 40148754019, 40148754020, 40148754021, 40148754022, 40148754023, 40148754024, 40148754025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<5.0	10.0	04/28/17 12:52	

LABORATORY CONTROL SAMPLE: 1498495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	200	198	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1498496 1498497

Parameter	Units	40148754025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	146	200	200	325	323	90	88	80-120	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

DEFINITIONS

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

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40148754001	MW-1SR	EPA 6010	253831		
40148754002	MW-17M	EPA 6010	253831		
40148754003	MW-17S	EPA 6010	253831		
40148754004	AW-13	EPA 6010	253831		
40148754005	MW-5S	EPA 6010	253831		
40148754008	MW-16M	EPA 6010	253831		
40148754009	MW-16S	EPA 6010	253831		
40148754010	MW-4S	EPA 6010	253831		
40148754011	MW-12S	EPA 6010	253831		
40148754012	MW-8M	EPA 6010	253831		
40148754013	MW-8S	EPA 6010	253831		
40148754014	MW-7M	EPA 6010	253831		
40148754017	PZ-5	EPA 6010	253831		
40148754018	PZ-4	EPA 6010	253831		
40148754019	MW-10M	EPA 6010	253831		
40148754020	MW-11M	EPA 6010	253831		
40148754021	MW-9M	EPA 6010	253831		
40148754022	MW-6M	EPA 6010	253831		
40148754023	MW-6S	EPA 6010	253831		
40148754024	PZ-3	EPA 6010	253831		
40148754025	MW-15M	EPA 6010	254468		
40148754001	MW-1SR	EPA 7470	253624	EPA 7470	253666
40148754002	MW-17M	EPA 7470	253624	EPA 7470	253666
40148754003	MW-17S	EPA 7470	253624	EPA 7470	253666
40148754004	AW-13	EPA 7470	253624	EPA 7470	253666
40148754005	MW-5S	EPA 7470	253624	EPA 7470	253666
40148754008	MW-16M	EPA 7470	253624	EPA 7470	253666
40148754009	MW-16S	EPA 7470	253624	EPA 7470	253666
40148754010	MW-4S	EPA 7470	253624	EPA 7470	253666
40148754011	MW-12S	EPA 7470	253624	EPA 7470	253666
40148754012	MW-8M	EPA 7470	253624	EPA 7470	253666
40148754013	MW-8S	EPA 7470	253624	EPA 7470	253666
40148754014	MW-7M	EPA 7470	253624	EPA 7470	253666
40148754017	PZ-5	EPA 7470	253624	EPA 7470	253666
40148754018	PZ-4	EPA 7470	253624	EPA 7470	253666
40148754019	MW-10M	EPA 7470	253624	EPA 7470	253666
40148754020	MW-11M	EPA 7470	253624	EPA 7470	253666
40148754021	MW-9M	EPA 7470	253624	EPA 7470	253666
40148754022	MW-6M	EPA 7470	253624	EPA 7470	253666
40148754023	MW-6S	EPA 7470	253624	EPA 7470	253666
40148754024	PZ-3	EPA 7470	253624	EPA 7470	253666
40148754025	MW-15M	EPA 7470	254659	EPA 7470	254701
40148754002	MW-17M	EPA 8260	253563		
40148754003	MW-17S	EPA 8260	253563		
40148754004	AW-13	EPA 8260	253563		
40148754005	MW-5S	EPA 8260	253563		
40148754006	FIELD BLANK-1	EPA 8260	253563		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LC-13-01254.00 TOWN OF ONALASK
Pace Project No.: 40148754

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40148754007	**MW-5S DUP**	EPA 8260	253563		
40148754008	**MW-16M**	EPA 8260	253563		
40148754009	**MW-16S**	EPA 8260	253563		
40148754010	**MW-4S**	EPA 8260	253563		
40148754012	**MW-8M**	EPA 8260	253563		
40148754013	**MW-8S**	EPA 8260	253563		
40148754015	**MW-16S DUP**	EPA 8260	253563		
40148754016	**FIELD BLANK-2**	EPA 8260	253563		
40148754017	**PZ-5**	EPA 8260	253563		
40148754018	**PZ-4**	EPA 8260	253563		
40148754022	**MW-6M**	EPA 8260	253563		
40148754023	**MW-6S**	EPA 8260	253563		
40148754025	**MW-15M**	EPA 8260	253563		
40148754026	**TRIP BLANK**	EPA 8260	253563		
40148754001	**MW-1SR**	SM 2320B	253736		
40148754002	**MW-17M**	SM 2320B	253736		
40148754003	**MW-17S**	SM 2320B	253736		
40148754004	**AW-13**	SM 2320B	253736		
40148754005	**MW-5S**	SM 2320B	254095		
40148754008	**MW-16M**	SM 2320B	254095		
40148754009	**MW-16S**	SM 2320B	254095		
40148754010	**MW-4S**	SM 2320B	254095		
40148754011	**MW-12S**	SM 2320B	254095		
40148754012	**MW-8M**	SM 2320B	254095		
40148754013	**MW-8S**	SM 2320B	254095		
40148754014	**MW-7M**	SM 2320B	254095		
40148754017	**PZ-5**	SM 2320B	254095		
40148754018	**PZ-4**	SM 2320B	254095		
40148754019	**MW-10M**	SM 2320B	254095		
40148754020	**MW-11M**	SM 2320B	254095		
40148754021	**MW-9M**	SM 2320B	254095		
40148754022	**MW-6M**	SM 2320B	254095		
40148754023	**MW-6S**	SM 2320B	254095		
40148754024	**PZ-3**	SM 2320B	254095		
40148754025	**MW-15M**	SM 2320B	254095		

40148754 JSM

Page 1 of 2

First Cooler of 2
2nd cooler will be sent 4/2…

2 coolers with this COC

(Please Print Clearly)

Company Name:	Braun Intertec
Branch/Location:	La Crosse
Project Contact:	Mark Gretebeck
Phone:	608-781-7277
Project Number:	LC-13-01254.00
Project Name:	Town of Onalaska Landfill
Project State:	WI
Sampled By (Print):	David Bradshaw
Sampled By (Sign):	David M. Bradshaw
PO #:	LC-13-01254.00
Regulatory Program:	

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	Mark Gretebeck
Invoice To Company:	Braun Intertec
Invoice To Address:	2309 Palace St. La Crosse, WI 54603
Invoice To Phone:	608-781-7277

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) — Y/N: N, N, Y
PRESERVATION (CODE)* — Pick Letter: B, A, D

Analyses Requested: VOC; Alkalinity; Metals: As, Ba, Cd, Co, Fe, Mn, Pb, Hg, Vn

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOC	Alkalinity	Metals	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1SR	4-18-17	13:27	GW	[struck]	X	X	2-250ml/D	AD	
002	MW-17M	↓	14:18	↓	X	X	X		3-40ml/B	
003	MW-17S		14:44		X	X	X	odor		
004	AW-13		15:25		X	X	X			
005	MW-5S		15:52		X	X	X	odor		
006	Field Blank-1		16:00		X					
007	Duplicate-1	↓	—	↓	X					
008	MW-16M	4-19-17	09:20	GW	X	X	X			
009	MW-16S		09:44		X	X	X			
010	MW-4S		10:42		X	X	X	odor		
011	MW-12S		12:02			X	X			
012	MW-8M		13:58		X	X	X			
013	MW-8S		14:30		X	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
D. Bradshaw	4-20-17/16:00		
Fed Ex	4/21/17 0920	[signature] pace	4/21/17 0920

PACE Project No. 40148754

Receipt Temp = ROI °C

Sample Receipt pH
~~OK / Adjusted~~

Cooler Custody Seal
Present / Not Present (circled: Not Present)
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

(Please Print Clearly)

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

Company Name:	Braun Intertec
Branch/Location:	La Crosse
Project Contact:	Mark Gretebeck
Phone:	608-781-7277
Project Number:	LC-13-01254.00
Project Name:	Town of Onalaska Landfill
Project State:	WI
Sampled By (Print):	David Bradshaw
Sampled By (Sign):	David M. Bradshaw
PO #:	LC-13-01254.00
Regulatory Program:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	Mark Gretebeck
Invoice To Company:	Braun Intertec
Invoice To Address:	2309 Palace St. La Crosse, WI 54603
Invoice To Phone:	608-781-7277

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air; W = Water; B = Biota; DW = Drinking Water; C = Charcoal; GW = Ground Water; O = Oil; SW = Surface Water; S = Soil; WW = Waste Water; Sl = Sludge; WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC	Alkalinity	Metals: As, Ba, Cd, Co, Fe, Mn, Pb, Hg, Vn	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
014	MW-7M	4-19-17	15:17	GW	N	B		X	X	2-250mlpAD		
015	Duplicate-2	↓	—	↓	N	B	X				3-40mlVB	
016	Field Blank-2	4-20-17	07:00	GW	N	B	X					
017	PZ-5		08:00		N	A	X	X	X			
018	PZ-4		09:24		N	A	X	X	X			
019	MW-10M		10:05		N	A		X	X			
020	MW-11M		10:25		N	A		X	X			
021	MW-9M		10:41		N	A		X	X			
022	MW-6M		12:50		N	A	X	X	X			
023	MW-6S		13:17		N	A	X	X	X			
024	PZ-3		13:52		N	A	X	X	X			
025	MW-15M		14:35		N	A	X	X	X			
026	① trip blanks				N	B	X			2-40mlVB		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
D. Bradshaw	4-20-17/1600		
Fed Ex	4/21/17 0920	pace	4/21/17 0920

PACE Project No.: 40148754

Receipt Temp = ROI °C

Sample Receipt pH ~~OK / Adjusted~~

Cooler Custody Seal: Present / (Not Present) Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

① added to COC by lab per samples received BH 4/21/17

ORIGINAL

(Please Print Clearly)

Company Name:	Braun Intertec
Branch/Location:	La Crosse
Project Contact:	Mark Gretebeck
Phone:	608-781-7277
Project Number:	LC-13-01254.00
Project Name:	Town of Onalaska Landfill
Project State:	WI
Sampled By (Print):	David Bradshaw
Sampled By (Sign):	David M. Bradshaw
PO #:	LC-13-01254.00
Regulatory Program:	

Pace Analytical® www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

2 coolers with This CoC

First Cooler of 2 2nd cooler will be sent 4/24

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	Mark Gretebeck
Invoice To Company:	Braun Intertec
Invoice To Address:	2309 Palace St, La Crosse, WI 54603
Invoice To Phone:	608-781-7277

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC	Alkalinity	Metals: As, Ba, Cd, Co, Fe, Mn, Pb, Hg, Vn	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	MW-15R	4-18-17	13:27	GW	N	B	X	X	X			
	MW-17M		14:18		N	A	X	X	X			
	MW-17S		14:44		Y	D	X	X	X	odor		
	AW-13		15:25				X	X	X			
	MW-5S		15:52				X	X	X	odor		
	Field Blank-1		16:00				X					
	Duplicate-1		—				X					
	MW-16M	4-19-17	09:20	GW			X	X	X			
	MW-16S		09:44				X	X	X			
	MW-4S		10:42				X	X	X	odor		
	MW-12S		12:02					X	X			
	MW-8M		13:58				X	X	X			
	MW-8S		14:30				X	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
D. Bradshaw	4-20-17 / 16:00		
Fed Ex	4/21/17 0920	Pace	4/21/17 0920

PACE Project No.: 40148754

Receipt Temp = 2.0 °C

Sample Receipt pH: ~~OK / Adjusted~~

Cooler Custody Seal: Present / Not Present

Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

(Please Print Clearly)

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www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

Company Name:	Braun Intertec
Branch/Location:	La Crosse
Project Contact:	Mark Gretebeck
Phone:	608-781-7277
Project Number:	LC-13-01254.00
Project Name:	Town of Onalaska Landfill
Project State:	WI
Sampled By (Print):	David Bradshaw
Sampled By (Sign):	David M. Bradshaw
PO #:	LC-13-01254.00
Regulatory Program:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	Mark Gretebeck
Invoice To Company:	Braun Intertec
Invoice To Address:	2309 Palace St. La Crosse, WI 54603
Invoice To Phone:	608-781-7277

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water, B = Biota, DW = Drinking Water, C = Charcoal, GW = Ground Water, O = Oil, SW = Surface Water, S = Soil, WW = Waste Water, SI = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC	Alkalinity	Metals: As, Ba, Cd, Co, Fe, Mn, Pb, Hg, Vn
	MW-7M	4-19-17	15:17	GW				X	X
	Duplicate-2	↓	—	↓			X		
	Field Blank-2	4-20-17	07:00	GW			X		
	PZ-5		08:00				X	X	X
	PZ-4		09:24				X	X	X
	MW-10M		10:05					X	X
	MW-11M		10:25					X	X
	MW-9M		10:41					X	X
	MW-6M		12:50				X	X	X
	MW-6S		13:17				X	X	X
	PZ-3		13:52				X	X	X
	MW-15M		14:35				X	X	X
	Trip Blank(s) 1&2	—	—	GW			X		

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
D. Bradshaw	4-20-17/1600		
Fed Ex	4/21/17 0920	Pace	4/21/17 0920

PACE Project No.
40148754

Receipt Temp = ROT °C

Sample Receipt pH
~~OK / Adjusted~~

Cooler Custody Seal
Present / ~~Not Present~~
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical™

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Braun Intertec

Project #: **WO# : 40148754**

40148754

Courier: ☑ Fed Ex ☐ UPS ☐ Client ☐ Pace Other:

Tracking #: 8111 6758 6582 8111 6758 6549

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: — **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 4/21/17
Initials: BH

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°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.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. 001 IR 11 13:26" time
-Includes date/time/ID/Analysis Matrix: W		BH 4/21/17 BH 4/21/17
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☑Yes ☐No ☐N/A	13. ☑ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed: BH / Lab Std #ID of preservative: / Date/Time:
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	14.
Trip Blank Present:	☑Yes ☐No ☐N/A	15. (1) trip blanks added to COC per Samples received BH 4/21/17
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 363		

Client Notification/ Resolution:
If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 4-21-17

F-GB-C-031-Rev.03 (9April2015) SCUR Form

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 05, 2017

Mark Gretebeck
Braun Intertec Corporation
2309 Palace St
La Crosse, WI 54603

RE: Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Dear Mark Gretebeck:
Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40148869001	**FIELD BLANK-3**	Water	04/21/17 14:50	04/25/17 09:17
40148869002	**TRIP BLANK-3**	Water	04/21/17 00:00	04/25/17 09:17
40148869003	**MW-2M**	Water	04/21/17 11:28	04/25/17 09:17
40148869004	**MW-2S**	Water	04/21/17 11:49	04/25/17 09:17
40148869005	**AW-28**	Water	04/21/17 11:48	04/25/17 09:17
40148869006	**PZ-1**	Water	04/21/17 12:57	04/25/17 09:17
40148869007	**MW-145**	Water	04/21/17 13:29	04/25/17 09:17
40148869008	**PZ-2**	Water	04/21/17 14:12	04/25/17 09:17
40148869009	**ANDERSON WELL (ACKERMAN)**	Water	04/21/17 16:30	04/25/17 09:17
40148869010	**TAYLOR WELL (BERKICH)**	Water	04/21/17 17:46	04/25/17 09:17
40148869011	**MARSHALL WELL**	Water	04/21/17 18:10	04/25/17 09:17
40148869012	**ELVIN WELL**	Water	04/21/17 18:30	04/25/17 09:17

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40148869001	**FIELD BLANK-3**	EPA 8260	HNW	57
40148869002	**TRIP BLANK-3**	EPA 8260	HNW	57
40148869003	**MW-2M**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		SM 2320B	DDY	1
40148869004	**MW-2S**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148869005	**AW-28**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148869006	**PZ-1**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148869007	**MW-145**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148869008	**PZ-2**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
		SM 2320B	DDY	1
40148869009	**ANDERSON WELL (ACKERMAN)**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
40148869010	**TAYLOR WELL (BERKICH)**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
40148869011	**MARSHALL WELL**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57
40148869012	**ELVIN WELL**	EPA 6010	DLB	8
		EPA 7470	AJT	1
		EPA 8260	HNW	57

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40148869001	**FIELD BLANK-3**					
EPA 8260	Acetone	5.8J	ug/L	20.0	04/26/17 11:45	
40148869002	**TRIP BLANK-3**					
EPA 8260	Methylene Chloride	0.27J	ug/L	1.0	04/26/17 12:07	
40148869003	**MW-2M**					
EPA 6010	Arsenic, Dissolved	23.3J	ug/L	25.0	04/28/17 15:47	
EPA 6010	Barium, Dissolved	501	ug/L	5.0	04/28/17 15:47	
EPA 6010	Iron, Dissolved	9560	ug/L	100	04/28/17 15:47	
EPA 6010	Manganese, Dissolved	836	ug/L	5.5	04/28/17 15:47	
SM 2320B	Alkalinity, Total as CaCO3	129	mg/L	10.0	05/02/17 13:53	
40148869004	**MW-2S**					
EPA 6010	Arsenic, Dissolved	14.1J	ug/L	25.0	04/28/17 15:55	
EPA 6010	Barium, Dissolved	84.2	ug/L	5.0	04/28/17 15:55	
EPA 6010	Iron, Dissolved	29300	ug/L	100	04/28/17 15:55	
EPA 6010	Manganese, Dissolved	904	ug/L	5.5	04/28/17 15:55	
EPA 8260	1,4-Dichlorobenzene	1.3	ug/L	1.0	04/26/17 12:29	
EPA 8260	Chlorobenzene	3.4	ug/L	1.0	04/26/17 12:29	
EPA 8260	Methylene Chloride	0.33J	ug/L	1.0	04/26/17 12:29	
SM 2320B	Alkalinity, Total as CaCO3	151	mg/L	10.0	05/02/17 14:01	
40148869005	**AW-28**					
EPA 6010	Arsenic, Dissolved	8.8J	ug/L	25.0	04/28/17 16:03	
EPA 6010	Barium, Dissolved	266	ug/L	5.0	04/28/17 16:03	
EPA 6010	Iron, Dissolved	10800	ug/L	100	04/28/17 16:03	
EPA 6010	Manganese, Dissolved	1970	ug/L	5.5	04/28/17 16:03	
EPA 8260	n-Propylbenzene	0.66J	ug/L	1.0	04/26/17 16:54	
EPA 8260	tert-Butylbenzene	0.43J	ug/L	1.0	04/26/17 16:54	
SM 2320B	Alkalinity, Total as CaCO3	316	mg/L	10.0	05/02/17 14:10	
40148869006	**PZ-1**					
EPA 6010	Barium, Dissolved	89.8	ug/L	5.0	04/28/17 16:06	
EPA 6010	Manganese, Dissolved	1500	ug/L	5.5	04/28/17 16:06	
SM 2320B	Alkalinity, Total as CaCO3	165	mg/L	10.0	05/02/17 14:23	
40148869007	**MW-145**					
EPA 6010	Barium, Dissolved	100	ug/L	5.0	04/28/17 16:09	
EPA 6010	Iron, Dissolved	6730	ug/L	100	04/28/17 16:09	
EPA 6010	Manganese, Dissolved	1000	ug/L	5.5	04/28/17 16:09	
EPA 8260	1,2,4-Trimethylbenzene	7.1	ug/L	1.0	04/26/17 17:38	
EPA 8260	1,3,5-Trimethylbenzene	1.2	ug/L	1.0	04/26/17 17:38	
EPA 8260	Ethylbenzene	0.76J	ug/L	1.0	04/26/17 17:38	
EPA 8260	Isopropylbenzene (Cumene)	1.9	ug/L	1.0	04/26/17 17:38	
EPA 8260	Naphthalene	31.2	ug/L	5.0	04/26/17 17:38	
EPA 8260	Xylene (Total)	3.1	ug/L	3.0	04/26/17 17:38	
EPA 8260	n-Propylbenzene	2.6	ug/L	1.0	04/26/17 17:38	
EPA 8260	p-Isopropyltoluene	3.1	ug/L	1.0	04/26/17 17:38	
EPA 8260	tert-Butylbenzene	0.19J	ug/L	1.0	04/26/17 17:38	
SM 2320B	Alkalinity, Total as CaCO3	169	mg/L	10.0	05/02/17 14:50	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40148869008	**PZ-2**					
EPA 6010	Barium, Dissolved	69.1	ug/L	5.0	04/28/17 16:11	
EPA 6010	Cobalt, Dissolved	2.1J	ug/L	5.0	04/28/17 16:11	
EPA 6010	Iron, Dissolved	21200	ug/L	100	04/28/17 16:11	
EPA 6010	Manganese, Dissolved	3080	ug/L	5.5	04/28/17 16:11	
SM 2320B	Alkalinity, Total as CaCO3	194	mg/L	10.0	05/02/17 14:59	
40148869009	**ANDERSON WELL (ACKERMAN)**					
EPA 6010	Barium, Dissolved	21.8	ug/L	5.0	04/28/17 16:14	
EPA 6010	Iron, Dissolved	5870	ug/L	100	04/28/17 16:14	
EPA 6010	Manganese, Dissolved	158	ug/L	5.5	04/28/17 16:14	
40148869010	**TAYLOR WELL (BERKICH)**					
EPA 6010	Barium, Dissolved	126	ug/L	5.0	04/28/17 16:17	
EPA 6010	Iron, Dissolved	61.1J	ug/L	100	04/28/17 16:17	
EPA 6010	Manganese, Dissolved	132	ug/L	5.5	04/28/17 16:17	
40148869011	**MARSHALL WELL**					
EPA 6010	Barium, Dissolved	34.8	ug/L	5.0	04/28/17 16:19	
EPA 6010	Iron, Dissolved	5400	ug/L	100	04/28/17 16:19	
EPA 6010	Manganese, Dissolved	119	ug/L	5.5	04/28/17 16:19	
40148869012	**ELVIN WELL**					
EPA 6010	Barium, Dissolved	20.6	ug/L	5.0	04/28/17 16:22	
EPA 6010	Iron, Dissolved	4120	ug/L	100	04/28/17 16:22	
EPA 6010	Manganese, Dissolved	96.2	ug/L	5.5	04/28/17 16:22	
EPA 8260	Acetone	4.1J	ug/L	20.0	04/26/17 19:29	

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: FIELD BLANK-3 **Lab ID: 40148869001** Collected: 04/21/17 14:50 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/26/17 11:45	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/26/17 11:45	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/26/17 11:45	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/26/17 11:45	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/26/17 11:45	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/26/17 11:45	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/26/17 11:45	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/26/17 11:45	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/26/17 11:45	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/26/17 11:45	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/26/17 11:45	108-10-1	
Acetone	**5.8J**	ug/L	20.0	3.0	1		04/26/17 11:45	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/26/17 11:45	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/26/17 11:45	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/26/17 11:45	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/26/17 11:45	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/26/17 11:45	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/26/17 11:45	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/26/17 11:45	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/26/17 11:45	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/26/17 11:45	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/26/17 11:45	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/26/17 11:45	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/26/17 11:45	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/26/17 11:45	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/26/17 11:45	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/26/17 11:45	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/26/17 11:45	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 11:45	156-59-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: FIELD BLANK-3 **Lab ID: 40148869001** Collected: 04/21/17 14:50 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 11:45	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/26/17 11:45	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/26/17 11:45	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 11:45	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/26/17 11:45	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/26/17 11:45	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		04/26/17 11:45	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/26/17 11:45	2037-26-5	

Sample: TRIP BLANK-3 **Lab ID: 40148869002** Collected: 04/21/17 00:00 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/26/17 12:07	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/26/17 12:07	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/26/17 12:07	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/26/17 12:07	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/26/17 12:07	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/26/17 12:07	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/26/17 12:07	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/26/17 12:07	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/26/17 12:07	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/26/17 12:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/26/17 12:07	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/26/17 12:07	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/26/17 12:07	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/26/17 12:07	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/26/17 12:07	75-00-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: TRIP BLANK-3 **Lab ID: 40148869002** Collected: 04/21/17 00:00 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/26/17 12:07	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/26/17 12:07	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/26/17 12:07	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/26/17 12:07	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/26/17 12:07	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/26/17 12:07	1634-04-4	
Methylene Chloride	**0.27J**	ug/L	1.0	0.23	1		04/26/17 12:07	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/26/17 12:07	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/26/17 12:07	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/26/17 12:07	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/26/17 12:07	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/26/17 12:07	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/26/17 12:07	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 12:07	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:07	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/26/17 12:07	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/26/17 12:07	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 12:07	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/26/17 12:07	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/26/17 12:07	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		04/26/17 12:07	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/26/17 12:07	2037-26-5	

Sample: MW-2M **Lab ID: 40148869003** Collected: 04/21/17 11:28 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**23.3J**	ug/L	25.0	8.3	1	04/27/17 09:03	04/28/17 15:47	7440-38-2	
Barium, Dissolved	**501**	ug/L	5.0	1.5	1	04/27/17 09:03	04/28/17 15:47	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	04/27/17 09:03	04/28/17 15:47	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	04/27/17 09:03	04/28/17 15:47	7440-48-4	
Iron, Dissolved	**9560**	ug/L	100	34.0	1	04/27/17 09:03	04/28/17 15:47	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1	04/27/17 09:03	04/28/17 15:47	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: MW-2M **Lab ID: 40148869003** Collected: 04/21/17 11:28 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Manganese, Dissolved	**836**	ug/L	5.5	1.8	1	04/27/17 09:03	04/28/17 15:47	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1	04/27/17 09:03	04/28/17 15:47	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	05/04/17 13:05	05/05/17 11:10	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**129**	mg/L	10.0	5.0	1		05/02/17 13:53		

Sample: MW-2S **Lab ID: 40148869004** Collected: 04/21/17 11:49 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**14.1J**	ug/L	25.0	8.3	1	04/27/17 09:03	04/28/17 15:55	7440-38-2	
Barium, Dissolved	**84.2**	ug/L	5.0	1.5	1	04/27/17 09:03	04/28/17 15:55	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	04/27/17 09:03	04/28/17 15:55	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	04/27/17 09:03	04/28/17 15:55	7440-48-4	
Iron, Dissolved	**29300**	ug/L	100	34.0	1	04/27/17 09:03	04/28/17 15:55	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1	04/27/17 09:03	04/28/17 15:55	7439-92-1	
Manganese, Dissolved	**904**	ug/L	5.5	1.8	1	04/27/17 09:03	04/28/17 15:55	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1	04/27/17 09:03	04/28/17 15:55	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	05/04/17 13:05	05/05/17 11:12	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/26/17 12:29	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/26/17 12:29	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/26/17 12:29	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/26/17 12:29	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/26/17 12:29	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/26/17 12:29	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/26/17 12:29	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/26/17 12:29	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	541-73-1	
1,4-Dichlorobenzene	**1.3**	ug/L	1.0	0.50	1		04/26/17 12:29	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/26/17 12:29	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/26/17 12:29	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/26/17 12:29	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: MW-2S **Lab ID: 40148869004** Collected: 04/21/17 11:49 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/26/17 12:29	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/26/17 12:29	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/26/17 12:29	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	56-23-5	
Chlorobenzene	**3.4**	ug/L	1.0	0.50	1		04/26/17 12:29	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/26/17 12:29	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/26/17 12:29	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/26/17 12:29	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/26/17 12:29	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/26/17 12:29	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/26/17 12:29	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/26/17 12:29	1634-04-4	
Methylene Chloride	**0.33J**	ug/L	1.0	0.23	1		04/26/17 12:29	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/26/17 12:29	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/26/17 12:29	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/26/17 12:29	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/26/17 12:29	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/26/17 12:29	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/26/17 12:29	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 12:29	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 12:29	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/26/17 12:29	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/26/17 12:29	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 12:29	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/26/17 12:29	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/26/17 12:29	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		04/26/17 12:29	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/26/17 12:29	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**151**	mg/L	10.0	5.0	1		05/02/17 14:01		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: AW-28 **Lab ID: 40148869005** Collected: 04/21/17 11:48 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**8.8J**	ug/L	25.0	8.3	1	04/27/17 09:03	04/28/17 16:03	7440-38-2	
Barium, Dissolved	**266**	ug/L	5.0	1.5	1	04/27/17 09:03	04/28/17 16:03	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	04/27/17 09:03	04/28/17 16:03	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	04/27/17 09:03	04/28/17 16:03	7440-48-4	
Iron, Dissolved	**10800**	ug/L	100	34.0	1	04/27/17 09:03	04/28/17 16:03	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1	04/27/17 09:03	04/28/17 16:03	7439-92-1	
Manganese, Dissolved	**1970**	ug/L	5.5	1.8	1	04/27/17 09:03	04/28/17 16:03	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1	04/27/17 09:03	04/28/17 16:03	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	05/04/17 13:05	05/05/17 11:14	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/26/17 16:54	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/26/17 16:54	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/26/17 16:54	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/26/17 16:54	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/26/17 16:54	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/26/17 16:54	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/26/17 16:54	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/26/17 16:54	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/26/17 16:54	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/26/17 16:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/26/17 16:54	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/26/17 16:54	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/26/17 16:54	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/26/17 16:54	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/26/17 16:54	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/26/17 16:54	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/26/17 16:54	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/26/17 16:54	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/26/17 16:54	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: AW-28 **Lab ID: 40148869005** Collected: 04/21/17 11:48 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/26/17 16:54	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/26/17 16:54	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/26/17 16:54	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/26/17 16:54	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/26/17 16:54	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/26/17 16:54	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/26/17 16:54	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/26/17 16:54	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/26/17 16:54	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 16:54	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	104-51-8	
n-Propylbenzene	**0.66J**	ug/L	1.0	0.50	1		04/26/17 16:54	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 16:54	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/26/17 16:54	135-98-8	
tert-Butylbenzene	**0.43J**	ug/L	1.0	0.18	1		04/26/17 16:54	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 16:54	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/26/17 16:54	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/26/17 16:54	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		04/26/17 16:54	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/26/17 16:54	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**316**	mg/L	10.0	5.0	1		05/02/17 14:10		

Sample: PZ-1 **Lab ID: 40148869006** Collected: 04/21/17 12:57 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**<8.3**	ug/L	25.0	8.3	1	04/27/17 09:03	04/28/17 16:06	7440-38-2	
Barium, Dissolved	**89.8**	ug/L	5.0	1.5	1	04/27/17 09:03	04/28/17 16:06	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	04/27/17 09:03	04/28/17 16:06	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	04/27/17 09:03	04/28/17 16:06	7440-48-4	
Iron, Dissolved	**<34.0**	ug/L	100	34.0	1	04/27/17 09:03	04/28/17 16:06	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1	04/27/17 09:03	04/28/17 16:06	7439-92-1	
Manganese, Dissolved	**1500**	ug/L	5.5	1.8	1	04/27/17 09:03	04/28/17 16:06	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1	04/27/17 09:03	04/28/17 16:06	7440-62-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: PZ-1 **Lab ID: 40148869006** Collected: 04/21/17 12:57 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	05/04/17 13:05	05/05/17 11:17	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/26/17 17:16	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/26/17 17:16	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/26/17 17:16	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/26/17 17:16	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/26/17 17:16	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/26/17 17:16	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/26/17 17:16	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/26/17 17:16	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/26/17 17:16	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/26/17 17:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/26/17 17:16	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/26/17 17:16	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/26/17 17:16	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/26/17 17:16	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/26/17 17:16	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/26/17 17:16	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/26/17 17:16	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/26/17 17:16	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/26/17 17:16	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/26/17 17:16	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/26/17 17:16	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/26/17 17:16	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/26/17 17:16	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/26/17 17:16	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/26/17 17:16	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/26/17 17:16	75-69-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: PZ-1 **Lab ID: 40148869006** Collected: 04/21/17 12:57 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/26/17 17:16	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/26/17 17:16	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 17:16	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:16	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/26/17 17:16	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/26/17 17:16	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 17:16	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/26/17 17:16	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		04/26/17 17:16	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		04/26/17 17:16	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/26/17 17:16	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**165**	mg/L	10.0	5.0	1		05/02/17 14:23		

Sample: MW-145 **Lab ID: 40148869007** Collected: 04/21/17 13:29 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**<8.3**	ug/L	25.0	8.3	1	04/27/17 09:03	04/28/17 16:09	7440-38-2	
Barium, Dissolved	**100**	ug/L	5.0	1.5	1	04/27/17 09:03	04/28/17 16:09	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	04/27/17 09:03	04/28/17 16:09	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	04/27/17 09:03	04/28/17 16:09	7440-48-4	
Iron, Dissolved	**6730**	ug/L	100	34.0	1	04/27/17 09:03	04/28/17 16:09	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1	04/27/17 09:03	04/28/17 16:09	7439-92-1	
Manganese, Dissolved	**1000**	ug/L	5.5	1.8	1	04/27/17 09:03	04/28/17 16:09	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1	04/27/17 09:03	04/28/17 16:09	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	05/04/17 13:05	05/05/17 11:19	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/26/17 17:38	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/26/17 17:38	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/26/17 17:38	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/26/17 17:38	75-35-4	
1,2,4-Trimethylbenzene	**7.1**	ug/L	1.0	0.50	1		04/26/17 17:38	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/26/17 17:38	96-12-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: MW-145 **Lab ID: 40148869007** Collected: 04/21/17 13:29 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/26/17 17:38	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/26/17 17:38	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/26/17 17:38	78-87-5	
1,3,5-Trimethylbenzene	**1.2**	ug/L	1.0	0.50	1		04/26/17 17:38	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/26/17 17:38	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/26/17 17:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/26/17 17:38	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/26/17 17:38	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/26/17 17:38	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/26/17 17:38	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/26/17 17:38	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/26/17 17:38	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/26/17 17:38	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/26/17 17:38	75-71-8	
Ethylbenzene	**0.76J**	ug/L	1.0	0.50	1		04/26/17 17:38	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/26/17 17:38	87-68-3	
Isopropylbenzene (Cumene)	**1.9**	ug/L	1.0	0.14	1		04/26/17 17:38	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/26/17 17:38	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/26/17 17:38	75-09-2	
Naphthalene	**31.2**	ug/L	5.0	2.5	1		04/26/17 17:38	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/26/17 17:38	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/26/17 17:38	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/26/17 17:38	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/26/17 17:38	75-01-4	
Xylene (Total)	**3.1**	ug/L	3.0	1.5	1		04/26/17 17:38	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 17:38	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 17:38	104-51-8	
n-Propylbenzene	**2.6**	ug/L	1.0	0.50	1		04/26/17 17:38	103-65-1	
p-Isopropyltoluene	**3.1**	ug/L	1.0	0.50	1		04/26/17 17:38	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/26/17 17:38	135-98-8	
tert-Butylbenzene	**0.19J**	ug/L	1.0	0.18	1		04/26/17 17:38	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 17:38	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: MW-145 **Lab ID: 40148869007** Collected: 04/21/17 13:29 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/26/17 17:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/26/17 17:38	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		04/26/17 17:38	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		04/26/17 17:38	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**169**	mg/L	10.0	5.0	1		05/02/17 14:50		

Sample: PZ-2 **Lab ID: 40148869008** Collected: 04/21/17 14:12 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**<8.3**	ug/L	25.0	8.3	1	04/27/17 09:03	04/28/17 16:11	7440-38-2	
Barium, Dissolved	**69.1**	ug/L	5.0	1.5	1	04/27/17 09:03	04/28/17 16:11	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	04/27/17 09:03	04/28/17 16:11	7440-43-9	
Cobalt, Dissolved	**2.1J**	ug/L	5.0	1.4	1	04/27/17 09:03	04/28/17 16:11	7440-48-4	
Iron, Dissolved	**21200**	ug/L	100	34.0	1	04/27/17 09:03	04/28/17 16:11	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1	04/27/17 09:03	04/28/17 16:11	7439-92-1	
Manganese, Dissolved	**3080**	ug/L	5.5	1.8	1	04/27/17 09:03	04/28/17 16:11	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1	04/27/17 09:03	04/28/17 16:11	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	05/04/17 13:05	05/05/17 11:21	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/26/17 18:01	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/26/17 18:01	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/26/17 18:01	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/26/17 18:01	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/26/17 18:01	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/26/17 18:01	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/26/17 18:01	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/26/17 18:01	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/26/17 18:01	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/26/17 18:01	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/26/17 18:01	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: PZ-2 **Lab ID: 40148869008** Collected: 04/21/17 14:12 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/26/17 18:01	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/26/17 18:01	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/26/17 18:01	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/26/17 18:01	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/26/17 18:01	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/26/17 18:01	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/26/17 18:01	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/26/17 18:01	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/26/17 18:01	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/26/17 18:01	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/26/17 18:01	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/26/17 18:01	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/26/17 18:01	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/26/17 18:01	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/26/17 18:01	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/26/17 18:01	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/26/17 18:01	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 18:01	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:01	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/26/17 18:01	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/26/17 18:01	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 18:01	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/26/17 18:01	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/26/17 18:01	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		04/26/17 18:01	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/26/17 18:01	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**194**	mg/L	10.0	5.0	1		05/02/17 14:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: ANDERSON WELL (ACKERMAN) **Lab ID: 40148869009** Collected: 04/21/17 16:30 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**<8.3**	ug/L	25.0	8.3	1	04/27/17 09:03	04/28/17 16:14	7440-38-2	
Barium, Dissolved	**21.8**	ug/L	5.0	1.5	1	04/27/17 09:03	04/28/17 16:14	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	04/27/17 09:03	04/28/17 16:14	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	04/27/17 09:03	04/28/17 16:14	7440-48-4	
Iron, Dissolved	**5870**	ug/L	100	34.0	1	04/27/17 09:03	04/28/17 16:14	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1	04/27/17 09:03	04/28/17 16:14	7439-92-1	
Manganese, Dissolved	**158**	ug/L	5.5	1.8	1	04/27/17 09:03	04/28/17 16:14	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1	04/27/17 09:03	04/28/17 16:14	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	05/04/17 13:05	05/05/17 11:24	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/26/17 18:23	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/26/17 18:23	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/26/17 18:23	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/26/17 18:23	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/26/17 18:23	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/26/17 18:23	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/26/17 18:23	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/26/17 18:23	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/26/17 18:23	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/26/17 18:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/26/17 18:23	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/26/17 18:23	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/26/17 18:23	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/26/17 18:23	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/26/17 18:23	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/26/17 18:23	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/26/17 18:23	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/26/17 18:23	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: ANDERSON WELL (ACKERMAN) **Lab ID: 40148869009** Collected: 04/21/17 16:30 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/26/17 18:23	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/26/17 18:23	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/26/17 18:23	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/26/17 18:23	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/26/17 18:23	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/26/17 18:23	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/26/17 18:23	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/26/17 18:23	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/26/17 18:23	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/26/17 18:23	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 18:23	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:23	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/26/17 18:23	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/26/17 18:23	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 18:23	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/26/17 18:23	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/26/17 18:23	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		04/26/17 18:23	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/26/17 18:23	2037-26-5	

Sample: TAYLOR WELL (BERKICH) **Lab ID: 40148869010** Collected: 04/21/17 17:46 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**<8.3**	ug/L	25.0	8.3	1	04/27/17 09:03	04/28/17 16:17	7440-38-2	
Barium, Dissolved	**126**	ug/L	5.0	1.5	1	04/27/17 09:03	04/28/17 16:17	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	04/27/17 09:03	04/28/17 16:17	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	04/27/17 09:03	04/28/17 16:17	7440-48-4	
Iron, Dissolved	**61.1J**	ug/L	100	34.0	1	04/27/17 09:03	04/28/17 16:17	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1	04/27/17 09:03	04/28/17 16:17	7439-92-1	
Manganese, Dissolved	**132**	ug/L	5.5	1.8	1	04/27/17 09:03	04/28/17 16:17	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1	04/27/17 09:03	04/28/17 16:17	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	05/04/17 13:05	05/05/17 11:26	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: TAYLOR WELL (BERKICH) **Lab ID: 40148869010** Collected: 04/21/17 17:46 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/26/17 18:45	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/26/17 18:45	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/26/17 18:45	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/26/17 18:45	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/26/17 18:45	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/26/17 18:45	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/26/17 18:45	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/26/17 18:45	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/26/17 18:45	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/26/17 18:45	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/26/17 18:45	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/26/17 18:45	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/26/17 18:45	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/26/17 18:45	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/26/17 18:45	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/26/17 18:45	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/26/17 18:45	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/26/17 18:45	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/26/17 18:45	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/26/17 18:45	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/26/17 18:45	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/26/17 18:45	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/26/17 18:45	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/26/17 18:45	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/26/17 18:45	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/26/17 18:45	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/26/17 18:45	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/26/17 18:45	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 18:45	156-59-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: TAYLOR WELL (BERKICH) **Lab ID: 40148869010** Collected: 04/21/17 17:46 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 18:45	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/26/17 18:45	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/26/17 18:45	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 18:45	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/26/17 18:45	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/26/17 18:45	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		04/26/17 18:45	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/26/17 18:45	2037-26-5	

Sample: MARSHALL WELL **Lab ID: 40148869011** Collected: 04/21/17 18:10 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**<8.3**	ug/L	25.0	8.3	1	04/27/17 09:03	04/28/17 16:19	7440-38-2	
Barium, Dissolved	**34.8**	ug/L	5.0	1.5	1	04/27/17 09:03	04/28/17 16:19	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	04/27/17 09:03	04/28/17 16:19	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	04/27/17 09:03	04/28/17 16:19	7440-48-4	
Iron, Dissolved	**5400**	ug/L	100	34.0	1	04/27/17 09:03	04/28/17 16:19	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1	04/27/17 09:03	04/28/17 16:19	7439-92-1	
Manganese, Dissolved	**119**	ug/L	5.5	1.8	1	04/27/17 09:03	04/28/17 16:19	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1	04/27/17 09:03	04/28/17 16:19	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	05/04/17 13:05	05/05/17 11:28	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/26/17 19:07	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/26/17 19:07	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/26/17 19:07	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/26/17 19:07	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/26/17 19:07	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/26/17 19:07	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/26/17 19:07	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/26/17 19:07	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	541-73-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: MARSHALL WELL **Lab ID: 40148869011** Collected: 04/21/17 18:10 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/26/17 19:07	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/26/17 19:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/26/17 19:07	108-10-1	
Acetone	**<3.0**	ug/L	20.0	3.0	1		04/26/17 19:07	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/26/17 19:07	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/26/17 19:07	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/26/17 19:07	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/26/17 19:07	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/26/17 19:07	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/26/17 19:07	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/26/17 19:07	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/26/17 19:07	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/26/17 19:07	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/26/17 19:07	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/26/17 19:07	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/26/17 19:07	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/26/17 19:07	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/26/17 19:07	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/26/17 19:07	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/26/17 19:07	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 19:07	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:07	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/26/17 19:07	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/26/17 19:07	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 19:07	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/26/17 19:07	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/26/17 19:07	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		04/26/17 19:07	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/26/17 19:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: ELVIN WELL **Lab ID: 40148869012** Collected: 04/21/17 18:30 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**<8.3**	ug/L	25.0	8.3	1	04/27/17 09:03	04/28/17 16:22	7440-38-2	
Barium, Dissolved	**20.6**	ug/L	5.0	1.5	1	04/27/17 09:03	04/28/17 16:22	7440-39-3	
Cadmium, Dissolved	**<1.3**	ug/L	5.0	1.3	1	04/27/17 09:03	04/28/17 16:22	7440-43-9	
Cobalt, Dissolved	**<1.4**	ug/L	5.0	1.4	1	04/27/17 09:03	04/28/17 16:22	7440-48-4	
Iron, Dissolved	**4120**	ug/L	100	34.0	1	04/27/17 09:03	04/28/17 16:22	7439-89-6	
Lead, Dissolved	**<4.3**	ug/L	13.0	4.3	1	04/27/17 09:03	04/28/17 16:22	7439-92-1	
Manganese, Dissolved	**96.2**	ug/L	5.5	1.8	1	04/27/17 09:03	04/28/17 16:22	7439-96-5	
Vanadium, Dissolved	**<2.2**	ug/L	10.0	2.2	1	04/27/17 09:03	04/28/17 16:22	7440-62-2	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.13**	ug/L	0.42	0.13	1	05/04/17 13:05	05/05/17 11:31	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/26/17 19:29	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/26/17 19:29	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/26/17 19:29	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/26/17 19:29	75-35-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/26/17 19:29	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/26/17 19:29	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/26/17 19:29	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/26/17 19:29	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	106-46-7	
2-Butanone (MEK)	**<3.0**	ug/L	20.0	3.0	1		04/26/17 19:29	78-93-3	
2-Hexanone	**<1.1**	ug/L	5.0	1.1	1		04/26/17 19:29	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	5.0	2.1	1		04/26/17 19:29	108-10-1	
Acetone	**4.1J**	ug/L	20.0	3.0	1		04/26/17 19:29	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	71-43-2	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/26/17 19:29	74-83-9	
Carbon disulfide	**<0.61**	ug/L	5.0	0.61	1		04/26/17 19:29	75-15-0	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/26/17 19:29	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/26/17 19:29	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/26/17 19:29	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/26/17 19:29	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/26/17 19:29	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Sample: ELVIN WELL **Lab ID: 40148869012** Collected: 04/21/17 18:30 Received: 04/25/17 09:17 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/26/17 19:29	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/26/17 19:29	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/26/17 19:29	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/26/17 19:29	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	127-18-4	
Tetrahydrofuran	**<2.0**	ug/L	5.0	2.0	1		04/26/17 19:29	109-99-9	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/26/17 19:29	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/26/17 19:29	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/26/17 19:29	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/26/17 19:29	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 19:29	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/26/17 19:29	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/26/17 19:29	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/26/17 19:29	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/26/17 19:29	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/26/17 19:29	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/26/17 19:29	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		04/26/17 19:29	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/26/17 19:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

QC Batch: 254659 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40148869003, 40148869004, 40148869005, 40148869006, 40148869007, 40148869008, 40148869009, 40148869010, 40148869011, 40148869012

METHOD BLANK: 1501335 Matrix: Water
Associated Lab Samples: 40148869003, 40148869004, 40148869005, 40148869006, 40148869007, 40148869008, 40148869009, 40148869010, 40148869011, 40148869012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	05/05/17 10:32	

LABORATORY CONTROL SAMPLE: 1501336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501337 1501338

Parameter	Units	40148754025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.13	5	5	4.5	4.6	90	93	85-115	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

QC Batch: 253998 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 40148869003, 40148869004, 40148869005, 40148869006, 40148869007, 40148869008, 40148869009, 40148869010, 40148869011, 40148869012

METHOD BLANK: 1497800 Matrix: Water
Associated Lab Samples: 40148869003, 40148869004, 40148869005, 40148869006, 40148869007, 40148869008, 40148869009, 40148869010, 40148869011, 40148869012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<8.3	25.0	04/28/17 15:41	
Barium, Dissolved	ug/L	<1.5	5.0	04/28/17 15:41	
Cadmium, Dissolved	ug/L	<1.3	5.0	04/28/17 15:41	
Cobalt, Dissolved	ug/L	<1.4	5.0	04/28/17 15:41	
Iron, Dissolved	ug/L	<34.0	100	04/28/17 15:41	
Lead, Dissolved	ug/L	<4.3	13.0	04/28/17 15:41	
Manganese, Dissolved	ug/L	<1.8	5.5	04/28/17 15:41	
Vanadium, Dissolved	ug/L	<2.2	10.0	04/28/17 15:41	

LABORATORY CONTROL SAMPLE: 1497801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	481	96	80-120	
Barium, Dissolved	ug/L	500	502	100	80-120	
Cadmium, Dissolved	ug/L	500	496	99	80-120	
Cobalt, Dissolved	ug/L	500	498	100	80-120	
Iron, Dissolved	ug/L	5000	4930	99	80-120	
Lead, Dissolved	ug/L	500	483	97	80-120	
Manganese, Dissolved	ug/L	500	495	99	80-120	
Vanadium, Dissolved	ug/L	500	493	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497802 1497803

Parameter	Units	40148869003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	23.3J	500	500	509	517	97	99	75-125	2	20	
Barium, Dissolved	ug/L	501	500	500	1020	1030	103	106	75-125	1	20	
Cadmium, Dissolved	ug/L	<1.3	500	500	501	508	100	102	75-125	1	20	
Cobalt, Dissolved	ug/L	<1.4	500	500	504	509	101	102	75-125	1	20	
Iron, Dissolved	ug/L	9560	5000	5000	14700	14900	103	106	75-125	1	20	
Lead, Dissolved	ug/L	<4.3	500	500	489	491	98	98	75-125	0	20	
Manganese, Dissolved	ug/L	836	500	500	1330	1360	98	106	75-125	3	20	
Vanadium, Dissolved	ug/L	<2.2	500	500	494	498	99	100	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

QC Batch: 253833 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40148869001, 40148869002, 40148869004, 40148869005, 40148869006, 40148869007, 40148869008, 40148869009, 40148869010, 40148869011, 40148869012

METHOD BLANK: 1496947 Matrix: Water
Associated Lab Samples: 40148869001, 40148869002, 40148869004, 40148869005, 40148869006, 40148869007, 40148869008, 40148869009, 40148869010, 40148869011, 40148869012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/26/17 09:32	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	04/26/17 09:32	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/26/17 09:32	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/26/17 09:32	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/26/17 09:32	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	04/26/17 09:32	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/26/17 09:32	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/26/17 09:32	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/26/17 09:32	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/26/17 09:32	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/26/17 09:32	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	04/26/17 09:32	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/26/17 09:32	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/26/17 09:32	
2-Butanone (MEK)	ug/L	<3.0	20.0	04/26/17 09:32	
2-Hexanone	ug/L	<1.1	5.0	04/26/17 09:32	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.1	5.0	04/26/17 09:32	
Acetone	ug/L	<3.0	20.0	04/26/17 09:32	
Benzene	ug/L	<0.50	1.0	04/26/17 09:32	
Bromodichloromethane	ug/L	<0.50	1.0	04/26/17 09:32	
Bromoform	ug/L	<0.50	1.0	04/26/17 09:32	
Bromomethane	ug/L	<2.4	5.0	04/26/17 09:32	
Carbon disulfide	ug/L	<0.61	5.0	04/26/17 09:32	
Carbon tetrachloride	ug/L	<0.50	1.0	04/26/17 09:32	
Chlorobenzene	ug/L	<0.50	1.0	04/26/17 09:32	
Chloroethane	ug/L	<0.37	1.0	04/26/17 09:32	
Chloroform	ug/L	<2.5	5.0	04/26/17 09:32	
Chloromethane	ug/L	<0.50	1.0	04/26/17 09:32	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/26/17 09:32	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/26/17 09:32	
Dibromochloromethane	ug/L	<0.50	1.0	04/26/17 09:32	
Dibromomethane	ug/L	<0.43	1.0	04/26/17 09:32	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/26/17 09:32	
Ethylbenzene	ug/L	<0.50	1.0	04/26/17 09:32	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	04/26/17 09:32	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	04/26/17 09:32	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/26/17 09:32	
Methylene Chloride	ug/L	<0.23	1.0	04/26/17 09:32	
n-Butylbenzene	ug/L	<0.50	1.0	04/26/17 09:32	
n-Propylbenzene	ug/L	<0.50	1.0	04/26/17 09:32	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

METHOD BLANK: 1496947 Matrix: Water
Associated Lab Samples: 40148869001, 40148869002, 40148869004, 40148869005, 40148869006, 40148869007, 40148869008, 40148869009, 40148869010, 40148869011, 40148869012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	<2.5	5.0	04/26/17 09:32	
p-Isopropyltoluene	ug/L	<0.50	1.0	04/26/17 09:32	
sec-Butylbenzene	ug/L	<2.2	5.0	04/26/17 09:32	
Styrene	ug/L	<0.50	1.0	04/26/17 09:32	
tert-Butylbenzene	ug/L	<0.18	1.0	04/26/17 09:32	
Tetrachloroethene	ug/L	<0.50	1.0	04/26/17 09:32	
Tetrahydrofuran	ug/L	<2.0	5.0	04/26/17 09:32	
Toluene	ug/L	<0.50	1.0	04/26/17 09:32	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/26/17 09:32	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/26/17 09:32	
Trichloroethene	ug/L	<0.33	1.0	04/26/17 09:32	
Trichlorofluoromethane	ug/L	<0.18	1.0	04/26/17 09:32	
Vinyl chloride	ug/L	<0.18	1.0	04/26/17 09:32	
Xylene (Total)	ug/L	<1.5	3.0	04/26/17 09:32	
4-Bromofluorobenzene (S)	%	98	70-130	04/26/17 09:32	
Dibromofluoromethane (S)	%	96	70-130	04/26/17 09:32	
Toluene-d8 (S)	%	100	70-130	04/26/17 09:32	

LABORATORY CONTROL SAMPLE: 1496948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.9	94	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	55.4	111	67-130	
1,1,2-Trichloroethane	ug/L	50	48.1	96	70-130	
1,1-Dichloroethane	ug/L	50	51.2	102	70-133	
1,1-Dichloroethene	ug/L	50	48.7	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	62.1	124	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	70-130	
1,2-Dichlorobenzene	ug/L	50	56.3	113	70-130	
1,2-Dichloroethane	ug/L	50	46.3	93	70-130	
1,2-Dichloropropane	ug/L	50	44.0	88	70-130	
1,3-Dichlorobenzene	ug/L	50	59.3	119	70-130	
1,4-Dichlorobenzene	ug/L	50	55.7	111	70-130	
Benzene	ug/L	50	47.9	96	60-135	
Bromodichloromethane	ug/L	50	48.8	98	70-130	
Bromoform	ug/L	50	46.8	94	70-130	
Bromomethane	ug/L	50	31.1	62	33-130	
Carbon disulfide	ug/L	50	62.5	125	70-139	
Carbon tetrachloride	ug/L	50	41.9	84	70-138	
Chlorobenzene	ug/L	50	49.8	100	70-130	
Chloroethane	ug/L	50	41.7	83	51-130	
Chloroform	ug/L	50	44.9	90	70-130	
Chloromethane	ug/L	50	39.1	78	25-132	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

LABORATORY CONTROL SAMPLE: 1496948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	45.0	90	69-130	
cis-1,3-Dichloropropene	ug/L	50	49.4	99	70-130	
Dibromochloromethane	ug/L	50	57.1	114	70-130	
Dichlorodifluoromethane	ug/L	50	32.0	64	23-130	
Ethylbenzene	ug/L	50	53.5	107	70-136	
Isopropylbenzene (Cumene)	ug/L	50	54.6	109	70-140	
Methyl-tert-butyl ether	ug/L	50	54.0	108	66-138	
Methylene Chloride	ug/L	50	51.4	103	70-130	
Styrene	ug/L	50	59.1	118	70-133	
Tetrachloroethene	ug/L	50	46.6	93	70-138	
Toluene	ug/L	50	50.4	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.9	102	70-131	
trans-1,3-Dichloropropene	ug/L	50	51.1	102	69-130	
Trichloroethene	ug/L	50	46.9	94	70-130	
Trichlorofluoromethane	ug/L	50	53.8	108	50-150	
Vinyl chloride	ug/L	50	51.0	102	49-130	
Xylene (Total)	ug/L	150	171	114	70-135	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496970 1496971

Parameter	Units	40148869004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	47.7	49.7	95	99	70-134	4	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	51.9	51.9	104	104	67-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	47.6	47.6	95	95	70-130	0	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	49.0	49.9	98	100	70-134	2	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	49.9	51.5	100	103	68-136	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	53.1	63.2	106	126	50-150	17	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	51.4	51.4	103	103	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	53.5	55.1	107	110	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	44.9	47.9	90	96	70-130	6	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	46.5	46.5	93	93	70-130	0	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	55.7	56.5	111	113	70-131	1	20	
1,4-Dichlorobenzene	ug/L	1.3	50	50	53.5	57.8	104	113	70-130	8	20	
Benzene	ug/L	<0.50	50	50	49.7	50.7	99	101	57-138	2	20	
Bromodichloromethane	ug/L	<0.50	50	50	48.7	51.0	97	102	70-130	5	20	
Bromoform	ug/L	<0.50	50	50	48.0	47.4	96	95	70-130	1	20	
Bromomethane	ug/L	<2.4	50	50	37.8	39.4	76	79	33-130	4	27	
Carbon disulfide	ug/L	<0.61	50	50	63.8	65.4	128	131	70-153	2	20	
Carbon tetrachloride	ug/L	<0.50	50	50	44.3	44.4	89	89	70-138	0	20	
Chlorobenzene	ug/L	3.4	50	50	51.2	51.3	96	96	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496970 1496971

Parameter	Units	40148869004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloroethane	ug/L	<0.37	50	50	41.0	42.7	82	85	51-130	4	20	
Chloroform	ug/L	<2.5	50	50	47.3	48.1	95	96	70-130	2	20	
Chloromethane	ug/L	<0.50	50	50	38.6	39.0	77	78	25-132	1	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	46.7	46.2	93	92	61-140	1	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	50.2	51.0	100	102	70-130	2	20	
Dibromochloromethane	ug/L	<0.50	50	50	56.8	54.5	114	109	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	30.8	32.8	62	66	23-130	6	20	
Ethylbenzene	ug/L	<0.50	50	50	53.4	53.2	107	106	70-138	0	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	54.6	54.2	109	108	70-152	1	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	55.4	56.0	111	112	66-139	1	20	
Methylene Chloride	ug/L	0.33J	50	50	52.4	52.6	104	105	70-130	0	20	
Styrene	ug/L	<0.50	50	50	59.8	58.3	120	117	70-138	3	20	
Tetrachloroethene	ug/L	<0.50	50	50	49.1	50.6	98	101	70-148	3	20	
Toluene	ug/L	<0.50	50	50	50.7	50.1	101	100	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	52.3	53.5	105	107	70-133	2	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	51.6	50.6	103	101	69-130	2	20	
Trichloroethene	ug/L	<0.33	50	50	47.6	49.4	95	99	70-131	4	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	51.8	51.9	104	104	50-150	0	20	
Vinyl chloride	ug/L	<0.18	50	50	49.4	51.0	99	102	49-133	3	20	
Xylene (Total)	ug/L	<1.5	150	150	170	173	113	115	70-135	2	20	
4-Bromofluorobenzene (S)	%						107	99	70-130			
Dibromofluoromethane (S)	%						105	104	70-130			
Toluene-d8 (S)	%						102	98	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

QC Batch: 254392 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 40148869003, 40148869004, 40148869005, 40148869006, 40148869007, 40148869008

METHOD BLANK: 1500075 Matrix: Water
Associated Lab Samples: 40148869003, 40148869004, 40148869005, 40148869006, 40148869007, 40148869008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<5.0	10.0	05/02/17 12:48	

LABORATORY CONTROL SAMPLE: 1500076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	200	198	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500077 1500078

Parameter	Units	40148564002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	143	200	200	343	343	100	100	80-120	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

DEFINITIONS

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

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LC-1301254.00 TOWN OF ONALASKA
Pace Project No.: 40148869

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40148869003	**MW-2M**	EPA 3010	253998	EPA 6010	254071
40148869004	**MW-2S**	EPA 3010	253998	EPA 6010	254071
40148869005	**AW-28**	EPA 3010	253998	EPA 6010	254071
40148869006	**PZ-1**	EPA 3010	253998	EPA 6010	254071
40148869007	**MW-145**	EPA 3010	253998	EPA 6010	254071
40148869008	**PZ-2**	EPA 3010	253998	EPA 6010	254071
40148869009	**ANDERSON WELL (ACKERMAN)**	EPA 3010	253998	EPA 6010	254071
40148869010	**TAYLOR WELL (BERKICH)**	EPA 3010	253998	EPA 6010	254071
40148869011	**MARSHALL WELL**	EPA 3010	253998	EPA 6010	254071
40148869012	**ELVIN WELL**	EPA 3010	253998	EPA 6010	254071
40148869003	**MW-2M**	EPA 7470	254659	EPA 7470	254701
40148869004	**MW-2S**	EPA 7470	254659	EPA 7470	254701
40148869005	**AW-28**	EPA 7470	254659	EPA 7470	254701
40148869006	**PZ-1**	EPA 7470	254659	EPA 7470	254701
40148869007	**MW-145**	EPA 7470	254659	EPA 7470	254701
40148869008	**PZ-2**	EPA 7470	254659	EPA 7470	254701
40148869009	**ANDERSON WELL (ACKERMAN)**	EPA 7470	254659	EPA 7470	254701
40148869010	**TAYLOR WELL (BERKICH)**	EPA 7470	254659	EPA 7470	254701
40148869011	**MARSHALL WELL**	EPA 7470	254659	EPA 7470	254701
40148869012	**ELVIN WELL**	EPA 7470	254659	EPA 7470	254701
40148869001	**FIELD BLANK-3**	EPA 8260	253833		
40148869002	**TRIP BLANK-3**	EPA 8260	253833		
40148869004	**MW-2S**	EPA 8260	253833		
40148869005	**AW-28**	EPA 8260	253833		
40148869006	**PZ-1**	EPA 8260	253833		
40148869007	**MW-145**	EPA 8260	253833		
40148869008	**PZ-2**	EPA 8260	253833		
40148869009	**ANDERSON WELL (ACKERMAN)**	EPA 8260	253833		
40148869010	**TAYLOR WELL (BERKICH)**	EPA 8260	253833		
40148869011	**MARSHALL WELL**	EPA 8260	253833		
40148869012	**ELVIN WELL**	EPA 8260	253833		
40148869003	**MW-2M**	SM 2320B	254392		
40148869004	**MW-2S**	SM 2320B	254392		
40148869005	**AW-28**	SM 2320B	254392		
40148869006	**PZ-1**	SM 2320B	254392		
40148869007	**MW-145**	SM 2320B	254392		
40148869008	**PZ-2**	SM 2320B	254392		

40148869

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Braun Intertec
Branch/Location:	La Crosse
Project Contact:	Mark Gretebeck
Phone:	608-781-7277
Project Number:	LC-13-01254.00
Project Name:	Town of Onalaska Landfill
Project State:	WI
Sampled By (Print):	David Bradshaw
Sampled By (Sign):	David M. Bradshaw
PO #:	LC-13-01254.00
Regulatory Program:	

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	Mark Gretebeck
Invoice To Company:	Braun Intertec
Invoice To Address:	2309 Palace St. La Crosse, WI 54603
Invoice To Phone:	608-781-7277

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC	Alkalinity	Metals: As, Ba, Cd, Co, Fe, Mn, Pb, Hg, Vn	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	B					3-40mLv B	
001	Field Blank-3	4/21/17	14:50	GW			X					
002	Trip Blank-3	-	-	GW	N	B	X				1-40mLv B	
003	MW-2M	4/21/17	11:28		N	A		X	X		2-250mLp AD	
004	MW-2S		11:49		N	A	X	X	X		3-40mLv B	
005	AW-28		11:48		N	A	X	X	X			
006	PZ-1		12:57		N	A	X	X	X			
007	MW-14S		13:29		N	A	X	X	X			
008	PZ-2		14:12		N	A	X	X	X			
009	Anderson Well (Ackerman)		16:30		N	D	X		X		1-250mLp D	
010	Taylor Well (Berkich)		17:46		N	D	X		X			
011	Marshall Well		18:10		N	D	X		X			
012	Elvin Well		18:30		N	D	X		X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
D. Bradshaw	4-24-17 / 16:00		
Fed Ex	4/25/17 0917	Kimberly Ritzke Pace	4/25/17 0917

PACE Project No.: 40148869

Receipt Temp = R01 °C

Sample Receipt pH: (OK) Adjusted

Cooler Custody Seal: Present / Not Present; Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project # WO# : 40148869

40148869

Client Name: Braun Interlec

Courier: ☑ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: _____

Tracking #: 8115 8148 8484

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R01 /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 4-25-17
Initials: KR

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°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.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☑Yes ☐No ☐N/A	13. ☑ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☑Yes ☐No ☐N/A	
exceptions: (VOA) coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed: KR / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	14.
Trip Blank Present:	☑Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 363		

Client Notification/ Resolution:
If checked, see attached form for additional comments ☐
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

F-GB-C-031-Rev.03 (9April2015) SCUR Form