ENGINEERING
ARCHITECTURE
ENVIRONMENTAL
PLANNING

OMNNI ASSOCIATES

OMNNI ASSOCIATES, INC.
ONE SYSTEMS DRIVE
APPLETON, WI 54914-1654
TEL: 920-735-6900

October 10, 2016

Mr. Keld Lauridsen
Hydrogeologist/Project Manager
WDNR-Northeast Region RR
2984 Shawano Avenue
Green Bay, WI 54313-6727

RE: Summary of the September 19 & 20, 2016 groundwater sampling events at the former Better Brite Chrome and Zinc Shops.

Dear Keld:

The purpose of this letter report is to summarize the groundwater sampling events conducted on September 19 & 20, 2016 at the former Better Brite chrome and zinc shops. The former Better Brite facilities are located at 519 Lande Street (chrome shop, BRRTS # 02-05-000030) and 315 S. 6th Street (zinc shop, BRRTS # 02-05-000031), De Pere, Wisconsin. (See Figure 1 – Site Location Map.) This report includes:

- Figure 1 – Site Location Map
- Figure 2 – Monitoring Wells – Chrome Site
- Figure 3 – Monitoring Wells – Zinc Site
- Well Specific Field Sheets
- Table 1 – Groundwater Analytical Summary, Better Brite – Chrome Shop
- Table 2 – Groundwater Analytical Summary, Better Brite – Zinc Shop
- Monitoring Well Photograph Summary
- Laboratory Report

Groundwater elevations were only taken at the monitoring points that were sampled. Groundwater elevations were recorded on the well specific field sheets. (See Well Specific Field Sheets.)

Monitoring points W-1, W-1A, and MW-2 would allow the water level meter probe to be placed down the PVC pipe. However, a standard bailer would not freely go down the PVC pipe. (See Monitoring Well Photograph Summary.) A peristaltic pump was used to collect the samples. FOTH previously purged these monitoring points (on September 8 & 12, 2016) prior to OMNNI's sampling.

Monitoring well MW6 was found to have a hornets nest inside of the pro-top pipe at the time of sampling. Sampling from MW6 was postponed until the following day. The pro-top cover was sprayed with Spectracide Wasp and Hornet Killer early the morning of September 20th before sampling was conducted at the Chrome site. MW6's pro-top cover was rinsed with distilled water before pulling out the J plug on top of the PVC pipe.

Monitoring well covers were inspected at all monitoring points that could be located during the sampling event. The conditions of the covers were noted on the well specific field sheets and photographs of the covers were taken. (See Well Specific Field Sheets and Monitoring Well Photograph Summary.)

Color, odor, and turbidity observations were recorded on well specific field sheets. The well specific field sheets also list the measured depth to water from the top of the PVC pipe, mean sea level groundwater elevation, the length of time spent purging and the approximate gallons of groundwater purged from each monitoring well/piezometer prior to taking the groundwater sample. (See Well Specific Field Sheets.)

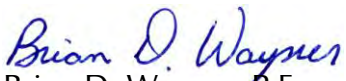
Purged groundwater from the monitoring wells and piezometers was collected in 5-gallon buckets. The purged groundwater was placed into the sump in the treatment building located at the former zinc shop site for treatment.

Unfiltered groundwater samples collected from the monitoring wells and zinc shop sump were submitted for laboratory hexavalent chromium analysis. Unfiltered groundwater from the zinc shop sump was also analyzed for cyanide, antimony and volatile organic compounds (VOCs). Unfiltered groundwater from monitoring well MW-116 was also analyzed for VOCs. Groundwater analytical methods are included with the laboratory report. (See Laboratory Report.) The laboratory analysis has been summarized in Table 1 and Table 2. (See Table 1 – Groundwater Analytical Summary, Better Brite – Chrome Shop and Table 2 - Groundwater Analytical Summary, Better Brite – Zinc Shop.)

In general, results of the laboratory analysis were similar when compared to past sampling events. Some of the monitoring locations had results lower than recent events and a couple of the monitoring locations had results higher than recent events. Groundwater enforcement standard exceedances for hexavalent chromium remain at both locations. At the former chrome shop site, the hexavalent chromium groundwater enforcement standard exceedance remains in MW-116, as well as preventive action limit exceedances in MW-111, MW-115, and MW-115A. Groundwater enforcement standard and preventive action limit exceedances of VOCs remain in MW-116. At the former zinc shop site, the hexavalent chromium groundwater enforcement standard was exceeded in monitoring points W-1, W-1A, MW-3R, MW-5, MW-6, MW-10 and the sump, and preventive action limit exceedance in MW-9. Groundwater preventive action limit exceedances for cyanide and VOCs were found in the sump.

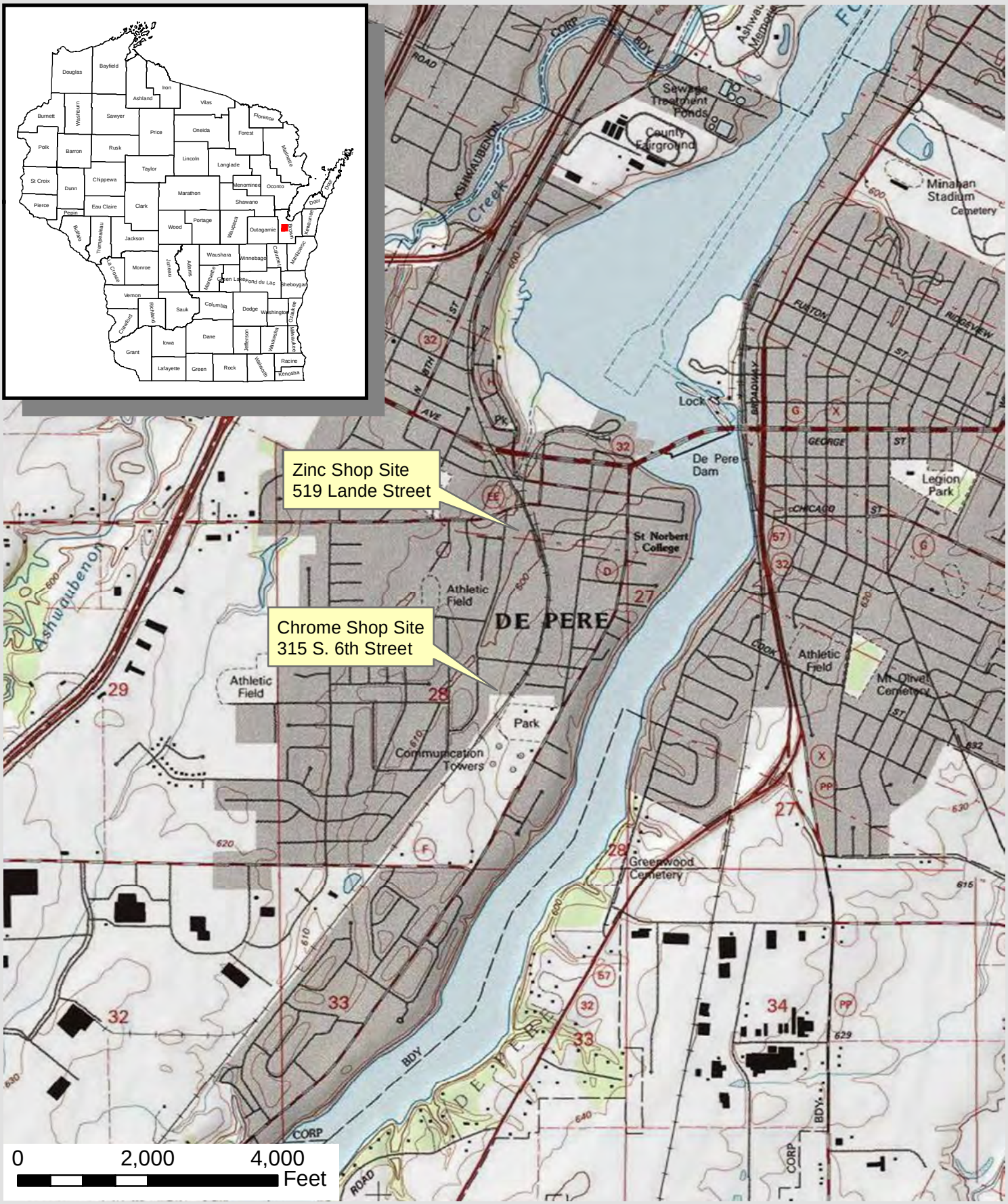
If you have any questions on the enclosed information, please contact me at 920/830-6141 or by email at bwayner@omnni.com.

Sincerely,
OMNNI Associates, Inc.



Brian D. Wayner, P.E.
Environmental Manager

Attachments



OMNI ASSOCIATES

ONE SYSTEMS DRIVE PHONE (920) 735-6900
APPLETON, WI 54914 FAX (920) 830-6100

N
W E
S

FORMER BETTER BRITE

SITE LOCATION MAP

315 S. 6TH STREET AND 519 LANDE STREET
CITY OF DEPERE, BROWN COUNTY, WISCONSIN

Project Manager:	BDW
Project Engineer:	BDW
Drawn By:	JCW
Checked By:	BDW
Date:	1/13/2014

SCALE: 1 " = 2,000 feet

PROJECT NO. **N1969A07**

FIGURE NO. **1**

F:\ENVIRO\N1969A07 (Better Brite State Lead)\GIS\SiteLocationmap.mxd

N
W E
S

Project Manager:	BDW	
Project Engineer:	BDW	
Drawn By:	JCW	
Checked By:	BDW	
Date:		11/5/2015

BETTER BRITE
MONITORING WELLS - CHROME SITE

CITY OF DE PERE
BROWN COUNTY, WISCONSIN

OMNI ASSOCIATES
ONE SYSTEMS DRIVE APPLETON, WI 54914
PHONE (920) 735-6900
FAX (920) 830-6100

SCALE:
1 " = 50 '

PROJECT NO.
N1969A07

FIGURE NO.
2

F:\ENVIRON\1969A07 (Better Brite State Lead)\GIS\Basemap_Chrome.mxd

N
W E
S

Project Manager:	BDW		
Project Engineer:	BDW		
Drawn By:	JCW	Checked By:	BDW
		Date:	11/5/2015

BETTER BRITE

MONITORING WELLS - ZINC SITE

CITY OF DE PERE
BROWN COUNTY, WISCONSIN

OMNI ASSOCIATES
ONE SYSTEMS DRIVE APPLETON, WI 54914
PHONE (920) 735-6900
FAX (920) 830-6100

SCALE:
1 " = 50 '

PROJECT NO.
N1969A07

FIGURE NO.
3

F:\ENVIRON\1969A07 (Better Brite State Lead)\GIS\Basemap_Zinc.mxd

Well Specific Field Sheets

Facility Name: Former Better Brite - Chrome Shop
Date: September 20, 2016
Weather Conditions: Sunny, 75°
Person(s) Sampling: Kim Kennedy
Sampling Equipment: Dedicated bailers, Solonist 101 water level meter.

Well Name	MW101	MW104A	MW106	MW106A	MW107	MW107A	MW108	MW108A	MW110	MW110A	MW111	MW112	MW13	MW115	MW115A	MW116
Top of PVC Casing Elevation (MSL)			606.21	606.36	608.41	608.33	604.22	604.44	603.05	603.31	600.76	600.61	611.08	601.04	601.01	604.28
Depth to Bottom of Well (ft)		18.30	14.65	32.09		39.33	15.82	33.27	14.76	23.80	14.40	15.86	15.08	14.48	23.48	18.88
Water Elevation (MSL)	–	–	–	–	–	–	–	–	–	–	596.63	–	–	598.88	590.17	600.67
Measured Depth to Water (ft)	–	–	–	–	–	–	–	–	–	–	4.13	–	–	2.16	10.84	3.61
Time Purging Begun	–	–	–	–	–	–	–	–	–	–	11:30 AM	–	–	10:07 AM	9:37 AM	10:44 AM
Time Purging Completed	–	–	–	–	–	–	–	–	–	–	11:42 AM	–	–	10:19 AM	9:55 AM	11:02 AM
Amount Purged (gal)	–	–	–	–	–	–	–	–	–	–	6.7	–	–	7.9	7.9	10.0
Purged Dry? (Y/N)	–	–	–	–	–	–	–	–	–	–	N	–	–	Y	Y	N
Color (Y/N)	–	–	–	–	–	–	–	–	–	–	N	–	–	N	N	Y-yellow
Odor (Y/N)	–	–	–	–	–	–	–	–	–	–	N	–	–	N	N	N
Turbidity (Y/N)	–	–	–	–	–	–	–	–	–	–	Y-very	–	–	Y-slight	Y-very	N
Time Sample Withdrawn	–	–	–	–	–	–	–	–	–	–	11:42 AM	–	–	10:19 AM	9:55 AM	11:02 AM
Well secured? (Y/N)	–	–	–	–	–	–	–	–	–	–	Y	–	–	Y	Y	Y
Cover Condition	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. One bolt snapped off.	Cover in good condition. Both bolts secure.	Concrete surround moves. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.

Purge 2" Well = (Depth to Bottom of Well - Measured Depth to Water) x 0.163 x 4

Well Specific Field Sheets

Facility Name: Former Better Brite - Zinc Shop
Date: September 19, 2016 (September 20, 2016 for MW6)
Weather Conditions: Sunny, 75°
Person(s) Sampling: Kim Kennedy
Sampling Equipment: Dedicated bailers, Solonist 101 water level meter, Geotech perastaltic pump for W-1, W-1A, MW2.

Well Name	**W-1** (1,2,5)	**W-1A** (1,2,5)	**MW2** (2,5)	**MW3R**	**MW5**	**MW5A**	**MW6** (5)	**MW6A** (5)	**MW7**	**MW7A**	**MW8**	**MW8A**	**MW9**	**MW10** (5)	**MW11**	**MW12**	**Zinc Sump** (4)
Top of PVC Casing Elevation (MSL)				602.88	600.81	600.81			600.60	600.51	598.18	598.59	601.66		602.41	599.65	603.99
Depth to Bottom of Well (ft)	19.67	31.53	17.68	16.72	15.31	29.72	18.48		15.86	26.73	11.41	21.73	16.33	14.78	15.62	10.04	
Water Elevation (MSL)	–	–	–	597.11	593.04	–	–	–	–	–	–	–	594.54	–	–	–	–
Measured Depth to Water (ft)	15.28	15.98	10.66	5.77	7.77	–	11.50	–	–	–	–	–	7.12	7.31	–	–	18.35
Time Purging Begun	Grab Sample (3)	Grab Sample (3)	Grab Sample (3)	12:02 PM	1:46 PM	–	12:16 PM	–	–	–	–	–	9:25 AM	10:14 AM	–	–	–
Time Purging Completed				12:14 PM	1:57 PM	–	12:27 PM	–	–	–	–	–	9:43 AM	10:26 AM	–	–	–
Amount Purged (gal)				7.1	4.9	–	4.6	–	–	–	–	–	6.0	4.9	–	–	–
Purged Dry? (Y/N)				N-almost	N	–	Y	–	–	–	–	–	N-almost	N-almost	–	–	–
Color (Y/N)	Y-yellow	N	N	N	N	–	N	–	–	–	–	–	N	N	–	–	Y-yellow
Odor (Y/N)	N	N	N	N	N	–	N	–	–	–	–	–	N	N	–	–	N
Turbidity (Y/N)	N	N	N	N	Y	–	Y	–	–	–	–	–	Y-very	Y-very	–	–	N
Time Sample Withdrawn	10:59 AM	11:21 AM	14:29	12:14 PM	1:57 PM	–	12:27 PM	–	–	–	–	–	9:43 AM	10:26 AM	–	–	12:59 PM
Well secured? (Y/N)	Y	Y	Y	Y	Y	–	Y	–	–	–	–	–	Y	Y	–	–	Y
Cover Condition	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Pro-top in fair condition (some rust). Lock secure.	Cover in good condition. One bolt snapped off.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Pro-top in fair condition (some rust). Hornet nest inside cover.	Pro-top in fair condition (some rust). Lock secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure. Need new clip for bailer.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure. Well under trailer.	Cover in good condition. Both bolts secure.	Gate overtaken by vegetation. Cover in good condition. Locks secure.

1 Depth to bottom of the well is suspect. Felt like soft bottom (sediment).

2 A standard bailer would not fit down the monitoirng well.

3 Grab sample collect with geoprobe bailer.

4 Sump was not running at time of sample collection. Water level in the sump was very low (approximately 1/3 of standard bailer contained water).

5 Well height modified. New elevation unknown.

Purge 2" Well = (Depth to Bottom of Well - Measured Depth to Water) x 0.163 x 4

Table 1 Groundwater Analytical Summary, Better Brite - Chrome Shop

519 Lande Street, De Pere, WI BRRTS # 02-05-000030

Sample Location	Date	Detected Parameters (µg/L)																						
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	1,1,2-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.5	0.7	7	0.5	40	0.5	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	5	7	70	5	200	5	5	0.2
Chrome Sump (Abandoned)	Aug-94	**620000**	**694000**	NA	NA	NA																		
	Oct-94	**300200**	**297000**	NA	NA	NA																		
	Apr-98	**195000**	**192000**	NA	NA	NA																		
	Jul-98	**132000**		NA	NA	NA																		
French Drain	Aug-94	**25800**	**22000**	NA	NA	NA																		
	Oct-94	**32000**	**31700**	NA	NA	NA																		
	Apr-98	**1060**	**1010**	NA	NA	NA																		
	Jul-98	**336**	**312**	NA	NA	NA																		
B-101	Aug-94	<10	<3.4	NA	NA	NA																		
	Oct-94	<10		NA	NA	NA																		
MW-106	Aug-94	7	<2.8	NA	NA	NA																		
	DUP.	<10	<2.8	NA	NA	NA																		
	Oct-94	<10 J	<3.4 J	NA	NA	NA																		
	DUP.	<10 J	<3.4 J	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	DUP	<10	<5	NA	NA	NA																		
	May-00	<4.2	4	NA	NA	NA																		
	8/26/10	<3.9	5.4	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
MW-106A	Aug-94	<10	<2.8	NA	NA	NA																		
	Oct-94	<10 J	<3.4 J	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	9.4	NA	NA	NA																		
	8/26/10	<3.9	1.1"J"	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
MW-106B (Abandoned)	Aug-94	<10	NA	NA	NA	NA																		
MW-107	Aug-94	<10	4.1 BJ	NA	NA	NA																		
	Oct-94	<10 J	<3.4	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	4.2	NA	NA	NA																		
	Jun-01	NA	NA	**530**	50	NA																		
	Nov-01	<4.2	26	**3900**	NA	1800																		
	May-02	7.8	1.2	230	NA	2300																		
	DUP	**100**	1.9	**490**	NA	2800																		
	Nov-02	NA	NA	**8200**	140000	2300																		
	May-03	<4.2	1.6	**490**	95000	1700																		
	May-04	6.5	1.7	260	100000	NA																		
	May-05	<5.0	0.89	380	97000	NA																		
	8/26/10	<3.9	16.4	**4010**	16400	NA																		
	6/16/11	<3.9	NA	**3130**	83600	NA																		
MW-107A	Aug-94	<10	<2.8	NA	NA	NA																		
	Oct-94	<10 J	<3.4 J	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	16	NA	NA	NA																		
	8/26/10	<3.9	23.2	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
MW-107B (Abandoned)	Aug-94	<10	NA	NA	NA	NA																		

NA - Compound not analyzed
Underlined - Concentration exceeds PAL
Bolded - Concentration exceeds ES

Table 1 Groundwater Analytical Summary, Better Brite - Chrome Shop

519 Lande Street, De Pere, WI BRRTS # 02-05-000030

Sample Location	Date	Detected Parameters (µg/L)																						
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	1,1,2-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.5	0.7	7	0.5	40	0.5	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	5	7	70	5	200	5	5	0.2
MW-108	Aug-94	<10	<2.8	NA	NA	NA																		
	Oct-94	<10	<3.4 J	NA	NA	NA																		
	Apr-98	<10	NA	NA	NA	NA																		
	DUP	<10	<5	NA	NA	NA																		
	Jul-09	NA	16.0	NA	NA	NA																		
	8/26/10	<3.9	4.6"J"	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
	12/5/13	<3.4	NA	NA	NA	NA																		
MW-108A	Aug-94	<10	3.0 BJ	NA	NA	NA																		
	Oct-94	<10	<3.4 J	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	55	NA	NA	NA																		
	Jul-09	NA	NA	NA	NA	NA																		
	8/26/10	<3.9	1.3"J"	NA	NA	NA																		
	6/16/11	<3.9	1.3"J"	NA	NA	NA																		
	12/5/13	<8.6	NA	NA	NA	NA																		
MW-108B (Abandoned)	Aug-94	<10	NA	NA	NA	NA																		
MW-109 (Abandoned)	Aug-94	**6780**	**9570**	NA	NA	NA																		
	Oct-94	**2400**	**1980**	NA	NA	NA																		
	DUP.	**3100**	**1700**	NA	NA	NA																		
	Apr-98	**16500**	**18600**	NA	NA	NA																		
	Jul-98	**12200**	**11100**	NA	NA	NA																		
MW-109A (Abandoned)	Aug-94	<10	<2.8	NA	NA	NA																		
	Oct-94	<10	1.3 B	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	Jul-98	<10	7	NA	NA	NA																		
MW-109B (Abandoned)	Aug-94	<10	NA	NA	NA	NA																		
	Oct-94	<10	NA	NA	NA	NA																		
MW-110	Aug-94	<10	3.6 BJ	NA	NA	NA																		
	Oct-94	<10	<3.4 J	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	37	NA	NA	NA																		
	May-04	<2.5	11	**3400**	230000	NA																		
	May-05	<5.0	0.89	82	70000	NA																		
	Oct-06	<6.8	1.8	NA	NA	NA																		
	8/21/07	NA	7.4	NA	NA	NA																		
	7/21/09	NA	5.3	NA	NA	NA																		
	8/26/10	<3.9	2.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.75		<0.57		<0.45	<0.9		<0.48	<0.18
	6/16/11	<3.9	NA	NA	NA	NA																		
	10/24/12	<3.9	NA	NA	NA	NA																		
	12/5/13	<3.4	NA	NA	NA	NA																		

NA - Compound not analyzed
Underlined - Concentration exceeds PAL
Bolded - Concentration exceeds ES

Table 1 Groundwater Analytical Summary, Better Brite - Chrome Shop

519 Lande Street, De Pere, WI BRRTS # 02-05-000030

Sample Location	Date	Detected Parameters (µg/L)																					
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	1,1,2-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.5	0.7	7	0.5	40	0.5	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	5	7	70	5	200	5	5	0.2
MW-110A	Aug-94	<10	<2.8	NA	NA	NA																		
	Oct-94	<10	<3.4 J	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	25	NA	NA	NA																		
	Oct-06	<6.8	4.2	NA	NA	NA																		
	8/21/07	NA	1.9	NA	NA	NA																		
	7/21/09	NA	1.3	NA	NA	NA																		
	8/26/10	<3.9	1.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.75		<0.57		<0.45	<0.9		<0.48	<0.18
	6/16/11	<3.9	NA	NA	NA	NA																		
MW-111	Aug-94	<10	<3.4	NA	NA	NA																		
	DUP.	<10	<3.4	NA	NA	NA																		
	Oct-94	<10	<0.70	NA	NA	NA																		
	Apr-98	**226**	<5	NA	NA	NA																		
	Jul-98	22	27	NA	NA	NA																		
	Nov-98	<0.5	<0.5	NA	NA	NA																		
	May-00	<4.2	36	NA	NA	NA																		
	Nov-02	<4.2	43	**4400**	130000	2600																		
	DUP	<4.2	38	**3400**	100000	280																		
	May-03	5.2	33	**2700**	98000	1400																		
	May-04	50	**150**	**5000**	93000	NA																		
	May-05	**250**	**260**	200	87000	NA																		
	Nov-05	<5.0	39	**12000**	98000	NA																		
	DUP	<5.0	55	**21000**	96000	NA																		
	Oct-06	<6.8	16	NA	NA	NA																		
	8/21/07	NA	25	NA	NA	NA																		
	7/21/09	NA	23.6	NA	NA	NA																		
	8/26/10	<3.9	19.8	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
	10/24/11	<3.9	NA	NA	NA	NA																		
	10/24/12	<3.9	NA	NA	NA	NA																		
	12/5/13	<3.4	NA	NA	NA	NA																		
	10/22/15	<3.9	NA	NA	NA	NA																		
	9/20/16	<51	NA	NA	NA	NA																		
MW-112	Oct-94	<10	<0.70	NA	NA	NA																		
	Nov-94	<10	<2.5	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	4.1	NA	NA	NA																		
	8/26/10	<3.9	3.9	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
MW-113	Aug-94	**140**	99.7	NA	NA	NA																		
	Oct-94	<10 J	8.6 B	NA	NA	NA																		
	May-95	43	20.3	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	Jul-98	<10	12	NA	NA	NA																		
	May-00	<4.2	22	NA	NA	NA																		
	8/26/10	<3.9	24.3	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		

NA - Compound not analyzed
Underlined - Concentration exceeds PAL
Bolded - Concentration exceeds ES

Table 1 Groundwater Analytical Summary, Better Brite - Chrome Shop

519 Lande Street, De Pere, WI BRRTS # 02-05-000030

Sample Location	Date	Detected Parameters (µg/L)																						
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	1,1,2-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.5	0.7	7	0.5	40	0.5	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	5	7	70	5	200	5	5	0.2
MW-114 (Abandoned)	Mar-95	<10 J	<2.9	NA	NA	NA																		
	DUP.	<10 J	<2.9	NA	NA	NA																		
	May-95	<10 J	<1.0	NA	NA	NA																		
	DUP.	<10 J	<1.0	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
MW-115	May-00	<4.2	6.0	NA	NA	NA																		
	Jun-01	<4.2	<0.52	160	92	NA																		
	Nov-01	<4.2	12	**1100**	NA	3000																		
	DUP	<4.2	10	**3300**	NA	3300																		
	May-02	<4.2	38	**19000**	NA	2800																		
	Nov-02	<4.2	38	**7000**	130000	3100																		
	May-03	<4.2	**260**	**9700**	90000	1400																		
	DUP	<4.2	56	**3600**	89000	1400																		
	May-04	<2.5	1.3	130	34000	NA																		
	May-05	<5.0	1.1	**320**	44000	NA																		
	Oct-06	<6.8	2.6	NA	NA	NA																		
	8/21/07	NA	10	NA	NA	NA																		
	7/21/09	NA	5.8	NA	NA	NA																		
	8/26/10	<3.9	1.6 J	**3530**	24800	NA																		
	6/16/11	<3.9	NA	**4460**	10000	NA																		
	10/24/11	<3.9	NA	NA	NA	NA																		
	10/24/12	<3.9	NA	NA	NA	NA																		
	12/5/13	<5.7	NA	NA	NA	NA																		
	10/16/14	<3.9	NA	NA	NA	NA																		
	10/22/15	<3.9	NA	NA	NA	NA																		
	9/20/16	<26	NA	NA	NA	NA																		
MW-115A	May-00	<4.2	12.0	NA	NA	NA																		
	Oct-06	<6.8	4.6	NA	NA	NA																		
	8/21/07	NA	2.7	NA	NA	NA																		
	7/21/09	NA	2.9	NA	NA	NA																		
	8/26/10	<3.9	1.4 J	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
	10/24/12	<3.9	NA	NA	NA	NA																		
	12/5/13	<8.6	NA	NA	NA	NA																		
	10/16/14	<3.9	NA	NA	NA	NA																		
	10/22/15	<3.9	NA	NA	NA	NA																		
	9/20/16	<26	NA	NA	NA	NA																		

NA - Compound not analyzed
Underlined - Concentration exceeds PAL
Bolded - Concentration exceeds ES

Table 1 Groundwater Analytical Summary, Better Brite - Chrome Shop

519 Lande Street, De Pere, WI BRRTS # 02-05-000030

Sample Location	Date	Detected Parameters (µg/L)																					
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	1,1,2-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.5	0.7	7	0.5	40	0.5	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	5	7	70	5	200	5	5	0.2
MW-116	May-00	**1600**	**470**	NA	NA	NA																		
	DUP.	**1500**	**460**	NA	NA	NA																		
	Nov-00	37	23	NA	NA	NA																		
	DUP	46	24	NA	NA	NA																		
	Jun-01	**4400**	**2300**	**840**	2100	NA																		
	Nov-01	**3300**	**2100**	**690**	NA	2400																		
	May-02	**12000**	**7300**	**530**	NA	2500																		
	Nov-02	**5100**	**3200**	**720**	20000	2900																		
	May-03	**8900**	**6000**	**410**	**2700000**	1700																		
	May-04	**28000**	**22000**	43	19000	NA																		
	DUP	**28000**	**22000**	280	24000	NA																		
	May-05	**52000**	**52000**	**950**	**1900000**	NA																		
	DUP	**54000**	**53000**	**710**	**1800000**	NA																		
	Nov-05	**50000**	**61000**	**840**	**1800000**	NA																		
	Oct-06	**39000**	**36000**	**900**	**1800000**	NA																		
	DUP	**42000**	**36000**	NA	NA	NA																		
	8/21/07	NA	**39,000**	NA	NA	NA																		
	7/21/09	NA	**25,500**	NA	NA	NA																		
	8/26/10	**21,300**	**19,200**	**478**	**1330000**	NA	**162**	2.4 J	0.43 J	NA	10.3	<0.46	<2.2	NA	NA	30.9		**22.1**		3.2	76.9		1.1	**0.21 J**
	8/26/10 LF	**20,200**	**17,700**	NA	NA	NA																		
	4/25/11	**34,600**	NA	NA	**1030000**	NA																		
	6/16/11	**13,800**	NA	240	**1660000**	NA	3.4 "J"	NA	NA	NA	NA	NA	NA	NA	NA	28.1		**25.9**		1.2	84.1		2.2	<0.18
	10/24/11	**18,300**	NA	NA	NA	NA																		
	10/24/12	**22,300**	NA	NA	NA	NA																		
	12/5/13	**17,600**	NA	NA	NA	NA																		
	DUP	**17,500**	NA	NA	NA	NA																		
	10/16/14	**13,300**	NA	NA	NA	NA																		
	10/22/15	**16,500**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43.5	0.32 J	**40.6**	1.5	1.7	145	0.46 J	1.6	**0.27 J**
	9/20/16	**16,100**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.8	<0.34	**34.8**	1.2 J	1.4 J	135	<0.39	1.5 J	**<0.35**
CSTW1	4/25/11	<3.9	NA	NA	**1,180,000**	NA																		
CSTW2	4/25/11	<3.9	NA	NA	**2,840,000**	NA																		
CSTW3	4/25/11	**1,000**	NA	NA	**2,010,000**	NA																		
CSTW4	4/25/11	<3.9	NA	NA	**426,000**	NA																		
CSTW5	4/25/11	4.9 "J"	NA	NA	**592,000**	NA																		
CSTW6	4/25/11	<3.9	NA	NA	**608000**	NA																		

NA - Compound not analyzed
Underlined - Concentration exceeds PAL
Bolded - Concentration exceeds ES

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
W-1	10/22/15	**10,300**	NA	NA	NA	NA	**(Grab Sample, no purging)**														
	9/19/16	**9600**	NA	NA	NA	NA	**(Grab Sample, previously purged)**														
W-1A	10/22/15	**3,300**	NA	NA	NA	NA	**(Grab Sample, no purging)**														
	9/19/16	**2800**	NA	NA	NA	NA	**(Grab Sample, previously purged)**														
PF-MW-2	May-00	<4.2	7.6	NA	NA	NA															
	Jun-01	<4.2	7.1	NA	NA	NA															
	Nov-01	<4.2	10	NA	NA	NA															
	May-02	<4.2	<0.52	NA	NA	NA															
	Nov-02	<4.2	2.4	NA	NA	NA															
	May-03	<4.2	49	NA	NA	NA															
	10/22/15	<3.9	NA	NA	NA	NA	**(Grab Sample, no purging)**														
	9/19/16	<5.1	NA	NA	NA	NA	**(Grab Sample, previously purged)**														
MW-3/MW3R	May-00	**230**	**330**	NA	NA	NA															
	Nov-00	50	**130**	NA	NA	NA															
	Jun-01	**3500**	**2200**	NA	NA	NA															
	Nov-01	38	**1700**	NA	NA	NA															
	May-02	<4.2	**220**	NA	NA	NA															
	Nov-02	<4.2	18	NA	NA	NA															
	May-03	**110**	55	NA	NA	NA															
	Dup	83	49	NA	NA	NA															
	May-04	89	**190**	NA	NA	NA															
	May-05	<5.0	*17*	NA	NA	NA															
	7/21/09	NA	**717**	NA	NA	NA															
	8/24/10	**660**	**552**	NA	NA	NA															
	6/28/11	**2800**	NA	NA	NA	NA															
	10/24/11	**2200**	NA	NA	NA	NA															
	10/23/12	**560**	NA	NA	NA	NA															
	12/5/13	**140**	NA	NA	NA	NA															
	10/16/14	**190**	NA	NA	NA	NA															
	10/22/15	**100**	NA	NA	NA	NA															
	9/19/16	**380**	NA	NA	NA	NA															
MW-4 (Abandoned)	Aug-94	<10	<3.4	NA	NA	NA															
	DUP	<10	<3.4	NA	NA	NA															
	Oct-94	<10 J	<3.4 J	NA	NA	NA															
	DUP	<10 J	<3.4 J	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	4.6	NA	NA	NA															
	Nov-00	<4.2	2.4	NA	NA	NA															
	Jun-01	<4.2	12	NA	NA	NA															
	Nov-01	<4.2	7.4	NA	NA	NA															
	May-02	<4.2	1.4	NA	NA	NA															
	Nov-02	<4.2	15	NA	NA	NA															
	May-03	<4.2	27	NA	NA	NA															
	May-04	<2.5	1.8	NA	NA	NA															
	May-05	<5.0	9	NA	NA	NA															
	Nov-05	<5.0	12	NA	NA	NA															

NA - Compound not analyzed
Underlined - Concentration exceeds preventive action limit
Bolded - Concentration exceeds enforcement standard

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
MW-4A (Abandoned)	Aug-94	<10	<3.4	NA	NA	NA															
	Oct-94	<10 J	6.0 B	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	8.7	NA	NA	NA															
	Nov-00	<4.2	3.7	NA	NA	NA															
	Jun-01	<4.2	3.7	NA	NA	NA															
	Nov-01	<4.2	13	NA	NA	NA															
	May-02	<4.2	38	NA	NA	NA															
	Nov-02	<4.2	28	NA	NA	NA															
	May-03	<4.2	32	NA	NA	NA															
	May-04	<2.5	0.75	NA	NA	NA															
	May-05	<5.0	2	NA	NA	NA															
	Nov-05	<5.0	2.8	NA	NA	NA															
MW-4B (Abandoned)	Oct-94	<10	<0.70	NA	NA	NA															
	Nov-94	<10	<2.5	NA	NA	NA															
MW-5	Aug-94	**1590**	**827**	NA	NA	NA															
	Oct-94	**460 J**	**299 J**	NA	NA	NA															
	DUP	**510 J**	**763 J**	NA	NA	NA															
	Apr-98	**212**	**631**	NA	NA	NA															
	DUP	**207**	**667**	NA	NA	NA															
	Jul-98	**1420**	**1230**	NA	NA	NA															
	May-00	**120**	**190**	NA	NA	NA															
	Nov-00	<4.2	6.6	NA	NA	NA															
	Jun-01	**590**	**450**	NA	NA	NA															
	Nov-02	**2200**	**2200**	NA	NA	NA															
	DUP	**2200**	**2200**	NA	NA	NA															
	May-03	**4900**	**3600**	NA	NA	NA															
	May-04	**4700**	**3100**	NA	NA	NA															
	May-05	**4000**	**3200**	NA	NA	NA															
	Oct-06	**4900**	**4000**	NA	NA	NA															
	8/21/07	NA	**2,700**	NA	NA	NA															
	7/21/09	NA	**2,210**	NA	NA	NA															
	8/24/10	**1,300**	**1,180**	NA	NA	NA															
	6/28/11	**970**	NA	NA	NA	NA															
	10/24/11	**1,100**	NA	NA	NA	NA															
	10/23/12	**970**	NA	NA	NA	NA															
	12/5/13	**1000**	NA	NA	NA	NA															
	10/22/15	**330**	NA	NA	NA	NA															
	9/19/16	**460**	NA	NA	NA	NA															

NA - Compound not analyzed
Underlined - Concentration exceeds preventive action limit
Bolded - Concentration exceeds enforcement standard

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
MW-5A	Aug-94	<10	<3.4	NA	NA	NA															
	Oct-94	<10	<3.4 J	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	6.5	NA	NA	NA															
	Nov-00	**340**	**380**	NA	NA	NA															
	Jun-01	<4.2	3.9	NA	NA	NA															
	Nov-02	<4.2	34	NA	NA	NA															
	May-03	<4.2	22	NA	NA	NA															
	DUP	<4.2	49	NA	NA	NA															
	May-04	<2.5	2.7	NA	NA	NA															
	May-05	<5.0	7.6	NA	NA	NA															
	8/24/10	<3.9	2.5"J"	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															
MW-5B (Abandoned)	Aug-94	NA	NA	NA	NA	NA															
	Oct-94	<10	<5	NA	NA	NA															
MW-6	Aug-94	**15900**	**39200**	NA	NA	NA															
	Oct-94	**47000**	**41,900 J**	NA	NA	NA															
	Apr-98	**7650**	**4560**	NA	NA	NA															
	May-00	**23000**	**26000**	NA	NA	NA															
	Nov-00	**26000**	**23000**	NA	NA	NA															
	Jun-01	**14000**	**15000**	NA	NA	NA															
	Nov-01	**25000**	**29000**	NA	NA	NA															
	May-02	**13000**	**13000**	NA	NA	NA															
	Nov-02	**21000**	**22000**	NA	NA	NA															
	May-03	**11000**	**9300**	NA	NA	NA															
	May-04	**13000**	**15000**	NA	NA	NA															
	May-05	**12000**	**11000**	NA	NA	NA															
	DUP	**12000**	**11000**	NA	NA	NA															
	Oct-06	**12000**	**12000**	NA	NA	NA															
	DUP	**14000**	**12000**	NA	NA	NA															
	8/21/07	NA	**8,900**	NA	NA	NA															
	7/21/09	NA	**10,400**	NA	NA	NA															
	8/24/10	**8400**	**7,540**	NA	NA	NA															
	6/28/11	**5200**	NA	NA	NA	NA															
	10/24/11	**6,500**	NA	NA	NA	NA															
	10/23/12	**7,300**	NA	NA	NA	NA															
	12/5/13	**6,100**	NA	NA	NA	NA															
	10/16/14	**3,300**	NA	NA	NA	NA															
	10/22/15	**360**	NA	NA	NA	NA															
	9/20/16	**3500**	NA	NA	NA	NA															

NA - Compound not analyzed
Underlined - Concentration exceeds preventive action limit
Bolded - Concentration exceeds enforcement standard

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
MW-6A	Aug-94	<10	4.9 B	NA	NA	NA															
	Oct-94	<10	<3.4 J	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	6.6	22	NA	NA	NA															
	Nov-00	<4.2	13	NA	NA	NA															
	6/01	<4.2	11	NA	NA	NA															
	Nov-01	<4.2	7.1	NA	NA	NA															
	May-02	<4.2	51	NA	NA	NA															
	Nov-02	<4.2	83	NA	NA	NA															
	May-03	<4.2	59	NA	NA	NA															
	May-04	<2.5	3.4	NA	NA	NA															
	May-05	<5.0	*12*	NA	NA	NA															
	8/24/10	<3.9	1.7"J"	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															
MW-6B (Abandoned)	Aug-94	<10	NA	NA	NA	NA															
MW-7	Aug-94	<10	6.6 BJ	NA	NA	NA															
	DUP.	<10	<2.8	NA	NA	NA															
	Oct-94	<10 J	36.4 J	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	DUP	<10	<5	NA	NA	NA															
	May-00	<4.2	3.9	NA	NA	NA															
	Nov-00	<4.2	1.1	NA	NA	NA															
	Jun-01	<4.2	2.7	NA	NA	NA															
	Nov-01	<4.2	9.7	NA	NA	NA															
	May-02	<4.2	3.2	NA	NA	NA															
	Nov-02	<4.2	1.9	NA	NA	NA															
	May-03	<4.2	0.91	NA	NA	NA															
	May-04	<2.5	0.88	NA	NA	NA															
	May-05	<5.0	*32*	NA	NA	NA															
	8/21/07	NA	4.4	NA	NA	NA															
	7/21/09	NA	9	NA	NA	NA															
	8/24/10	<3.9	3.7"J"	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															
MW-7A	Aug-94	<10	<2.8	NA	NA	NA															
	Oct-94	<10 J	<3.4 J	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	4.7	NA	NA	NA															
	Nov-00	7.9	5	NA	NA	NA															
	Jun-01	<4.2	2.5	NA	NA	NA															
	Nov-01	<4.2	<.52	NA	NA	NA															
	May-02	<4.2	1.4	NA	NA	NA															
	Nov-02	<4.2	0.98	NA	NA	NA															
	May-03	<4.2	0.85	NA	NA	NA															
	May-04	3.9	2.2	NA	NA	NA															
	May-05	<5.0	*0.65*	NA	NA	NA															
	8/24/10	<3.9	1.6"J"	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															

NA - Compound not analyzed
Underlined - Concentration exceeds preventive action limit
Bolded - Concentration exceeds enforcement standard

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
MW-8	Oct-94	<10	<0.70	NA	NA	NA															
	Nov-94	<10	<2.5	NA	NA	NA															
	DUP.	<10	<2.5	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	15	NA	NA	NA															
	Nov-00	13	13	NA	NA	NA															
	Jun-01	5.3	2	NA	NA	NA															
	Nov-01	<4.2	2.3	NA	NA	NA															
	DUP	<4.2	6.7	NA	NA	NA															
	May-02	<4.2	4	NA	NA	NA															
	Nov-02	<4.2	23	NA	NA	NA															
	May-03	<4.2	2.2	NA	NA	NA															
	May-04	<2.5	1.7	NA	NA	NA															
	May-05	<5.0	1.1	NA	NA	NA															
	8/21/07	NA	2.3	NA	NA	NA															
	8/24/10	<3.9	96	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															
MW-8A	Oct-94	<10	<0.70	NA	NA	NA															
	Nov-94	<10	<2.5	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	16	NA	NA	NA															
	Nov-00	<4.2	34	NA	NA	NA															
	Jun-01	<4.2	3.7	NA	NA	NA															
	Nov-01	<4.2	14	NA	NA	NA															
	May-02	<4.2	2.5	NA	NA	NA															
	DUP	<4.2	11	NA	NA	NA															
	Nov-02	<4.2	20	NA	NA	NA															
	May-03	<4.2	13	NA	NA	NA															
	May-04	3.9	0.59	NA	NA	NA															
	May-05	<5.0	2.6	NA	NA	NA															
	8/21/07	NA	0.92	NA	NA	NA															
	8/24/10	<3.9	1.7"J"	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															

NA - Compound not analyzed
Underlined - Concentration exceeds preventive action limit
Bolded - Concentration exceeds enforcement standard

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
MW-9	Aug-94	**400**	**697**	NA	NA	NA															
	Oct-94	**470 J**	**442 J**	NA	NA	NA															
	Apr-98	**209**	<5	NA	NA	NA															
	Jul-98	60	75	NA	NA	NA															
	Nov-00	13	15	NA	NA	NA															
	DUP	19	51	NA	NA	NA															
	Jun-01	28	**180**	NA	NA	NA															
	Nov-01	35	76	NA	NA	NA															
	May-02	75	72	NA	NA	NA															
	Nov-02	67	80	NA	NA	NA															
	May-03	32	53	NA	NA	NA															
	May-04	54	63	NA	NA	NA															
	Dup	50	46	NA	NA	NA															
	May-05	28	41	NA	NA	NA															
	Oct-06	17	34	NA	NA	NA															
	8/21/07	NA	52	NA	NA	NA															
	7/21/09	NA	33.3	NA	NA	NA															
	8/24/10	*27*	30.3	NA	NA	NA															
	6/28/11	*14*	NA	NA	NA	NA															
	10/23/12	*18 J*	NA	NA	NA	NA															
	12/5/13	<3.4	NA	NA	NA	NA															
	10/16/14	<3.9	NA	NA	NA	NA															
	10/22/15	<3.9	NA	NA	NA	NA															
	9/19/16	<26	NA	NA	NA	NA															
MW-10	Aug-94	**60300**	**53100**	NA	NA	NA															
	Oct-94	**60800 J**	**43,500 J**	NA	NA	NA															
	Nov-00	**20000**	**18000**	NA	NA	NA															
	Jun-01	<4.2	20	NA	NA	NA															
	Nov-02	**35000**	**38000**	NA	NA	NA															
	May-03	**38000**	**37000**	NA	NA	NA															
	May-04	**25000**	**22000**	NA	NA	NA															
	Nov-05	**13000**	**13000**	NA	NA	NA															
	Oct-06	**14000**	**13000**	NA	NA	NA															
	8/21/07	NA	**17,000**	NA	NA	NA															
	10/22/15	**10,300**	NA	NA	NA	NA															
	9/19/16	**9,800**	NA	NA	NA	NA															
MW-11	May-95	<10	<1.0	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	7.0	NA	NA	NA															
	Nov-00	<4.2	4.1	NA	NA	NA															
	Jun-01	<4.2	3.6	NA	NA	NA															
	Nov-01	<4.2	7.8	NA	NA	NA															
	May-02	17	<20	NA	NA	NA															
	Nov-02	<4.2	27	NA	NA	NA															
	May-03	<4.2	12	NA	NA	NA															
	May-04	<2.5	2.3	NA	NA	NA															
	May-05	<5.0	2.8	NA	NA	NA															
	8/24/10	<3.9	8.9	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															

NA - Compound not analyzed
Underlined - Concentration exceeds preventive action limit
Bolded - Concentration exceeds enforcement standard

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
MW-12	Mar-95	<10 J	<2.9	NA	NA	NA															
	May-95	<10	<1.0	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	4.8	NA	NA	NA															
	Nov-00	<4.2	6	NA	NA	NA															
	jun-01	<4.2	6.4	NA	NA	NA															
	Nov-01	<4.2	<0.52	NA	NA	NA															
	May-02	<4.2	4.8	NA	NA	NA															
	Nov-02	<4.2	1.3	NA	NA	NA															
	May-03	<4.2	1.3	NA	NA	NA															
	May-04	<2.5	1.8	NA	NA	NA															
	May-05	<5.0	8.1	NA	NA	NA															
	8/24/10	<3.9	6.5	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															
MW-13	Mar-95	<10 J	<2.9	NA	NA	NA															
	May-95	<10	<1.0	NA	NA	NA															
Zinc Sump	Aug-94	**89000**	**209000**	NA	NA	NA															
	Oct-94	**144900**	**277000**	NA	NA	NA															
	Apr-98	**66000**	**38300**	NA	NA	NA															
	Jul-98	**131000**	**131000**	NA	NA	NA															
	May-00	**1800**	**1700**	NA	NA	NA															
	Nov-00	**41000**	**27000**	NA	NA	NA															
	Jun-01	**40000**	**110000**	NA	NA	NA															
	Nov-01	**23000**	**56000**	NA	NA	NA															
	May-02	**43000**	**14000**	NA	NA	NA															
	Nov-03	**23000**	**30000**	NA	NA	NA															
	May-03	**8400**	**6800**	NA	NA	NA															
	May-04	**24000**	**6400**	NA	NA	NA															
	May-05	**15000**	**13000**	NA	NA	NA															
	Oct-06	**7500**	**5900**	NA	NA	NA															
	8/21/07	NA	**20,000**	NA	NA	NA															
	7/21/09	NA	**14,800**	NA	NA	NA															
	8/24/10	**12,100**	**11,300**	NA	NA	NA	**90.6**	NA	NA	40	NA	NA	<2.2	2.5 J	4.7 J	<0.75	<0.57	<0.45	1.5	<0.48	<0.18
	6/28/11	**4100**	NA	NA	NA	NA	**6.6**	NA	NA	**250**	NA	NA	<2.2	2.5 J	4.7 J	1.2	2.8	*0.84*	38.9	<0.48	<0.18
	10/24/11	**3,700**	NA	NA	NA	NA	**6.0 "J"**	NA	NA	**220**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/23/12	**110**	NA	NA	NA	NA	NA	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/13	**5,100**	NA	NA	NA	NA	NA	NA	NA	**340**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/16/14	**9,600**	NA	NA	NA	NA	NA	NA	NA	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/22/15	**10,200**	NA	NA	NA	NA	NA	NA	NA	**220**	NA	NA	NA	NA	NA	2.9	2.5	1.2	49.0	<0.33	<0.18
	9/19/16	**14,000**	NA	NA	NA	NA	**<7.3**	NA	NA	160	NA	NA	NA	NA	NA	1.4	1.2	0.79J	22.6	<0.33	<0.18
Private	Aug-94	<10	<10	NA	NA	NA															
Municipal	Aug-94	<10	<10	NA	NA	NA															
	DUP.	<10	<10	NA	NA	NA															
	Oct-94	<10	<10	NA	NA	NA															
	DUP.	<10	<10	NA	NA	NA															
USGS	Oct-94	<10	0.75 B	NA	NA	NA															
USGS-A	Oct-94	<10	11.9	NA	NA	NA															

NA - Compound not analyzed
Underlined - Concentration exceeds preventive action limit
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N
W-1


N
W-1A


N
W-1A


N
MW-2


MW-5


MW-6


MW-7


MW-6


MW-5A


MW-6A


MW-7A


N
MW-8
09/19/2016


N
MW-3R
09/19/2016


N
MW-11
09/19/2016

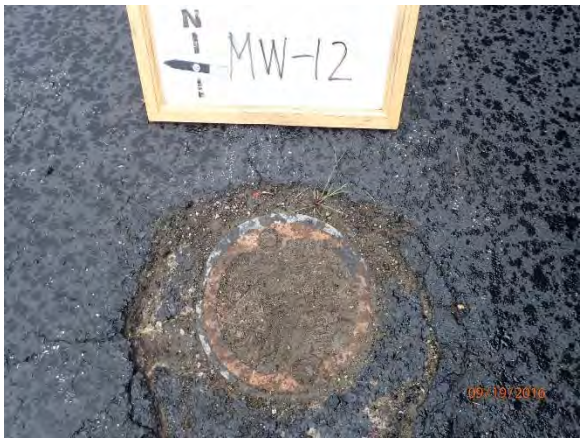

09/19/2016


N
MW-9
MONITORING WELL


09/19/2016


N
MW-8A
09/19/2016


N
MW-10
09/19/2016


N
MW-12
09/19/2016


N
MW-106


N
MW-107


N
MW-108


N
MW-106A


N
MW-107A


N
MW-108A


N
MW-110
09/19/2016


N
MW-101
09/19/2016


N
MW-112
09/19/2016


09/19/2016


N
MW-104A
09/19/2016


N
MW-13
09/19/2016


N
MW-110A
09/19/2016


N
MW-111
09/20/2016


N
MW-116
09/19/2016


N
MW-115
MONITORING
WELL


N
MW-115A

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

September 22, 2016

Brian Wayner
Omnni Associates, Inc.
One Systems Drive
Appleton, WI 549141654

RE: Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

Dear Brian Wayner:
Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Steven Mleczko
steve.mleczko@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40138563001	**TRIP BLANK**	Water	09/20/16 00:00	09/20/16 13:23
40138563002	**MW115A**	Water	09/20/16 09:55	09/20/16 13:23
40138563003	**MW115**	Water	09/20/16 10:15	09/20/16 13:23
40138563004	**MW116**	Water	09/20/16 11:02	09/20/16 13:23
40138563005	**MW111**	Water	09/20/16 11:42	09/20/16 13:23
40138563006	**MW6**	Water	09/20/16 12:27	09/20/16 13:23

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40138563001	**TRIP BLANK**	EPA 8260	HNW	64	PASI-G
40138563002	**MW115A**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40138563003	**MW115**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40138563004	**MW116**	EPA 8260	HNW	64	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G
40138563005	**MW111**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40138563006	**MW6**	SM 3500-Cr B (Online)	DEY	1	PASI-G

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

ANALYTICAL RESULTS

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

Sample: TRIP BLANK **Lab ID: 40138563001** Collected: 09/20/16 00:00 Received: 09/20/16 13:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		09/21/16 20:15	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		09/21/16 20:15	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		09/21/16 20:15	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		09/21/16 20:15	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		09/21/16 20:15	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		09/21/16 20:15	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		09/21/16 20:15	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		09/21/16 20:15	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		09/21/16 20:15	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		09/21/16 20:15	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		09/21/16 20:15	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		09/21/16 20:15	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/21/16 20:15	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		09/21/16 20:15	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		09/21/16 20:15	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/21/16 20:15	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/21/16 20:15	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		09/21/16 20:15	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		09/21/16 20:15	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		09/21/16 20:15	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		09/21/16 20:15	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		09/21/16 20:15	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		09/21/16 20:15	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		09/21/16 20:15	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		09/21/16 20:15	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		09/21/16 20:15	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		09/21/16 20:15	630-20-6	

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ANALYTICAL RESULTS

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

Sample: TRIP BLANK **Lab ID: 40138563001** Collected: 09/20/16 00:00 Received: 09/20/16 13:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		09/21/16 20:15	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		09/21/16 20:15	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		09/21/16 20:15	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		09/21/16 20:15	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		09/21/16 20:15	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		09/21/16 20:15	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/21/16 20:15	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		09/21/16 20:15	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 20:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	70-130		1		09/21/16 20:15	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		09/21/16 20:15	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/21/16 20:15	2037-26-5	

Sample: MW115A **Lab ID: 40138563002** Collected: 09/20/16 09:55 Received: 09/20/16 13:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**<0.026**	mg/L	0.086	0.026	5		09/21/16 09:00	18540-29-9	D3

Sample: MW115 **Lab ID: 40138563003** Collected: 09/20/16 10:15 Received: 09/20/16 13:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**<0.026**	mg/L	0.086	0.026	5		09/21/16 09:00	18540-29-9	D3

Sample: MW116 **Lab ID: 40138563004** Collected: 09/20/16 11:02 Received: 09/20/16 13:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	71-43-2	
Bromobenzene	**<0.46**	ug/L	2.0	0.46	2		09/22/16 02:17	108-86-1	

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ANALYTICAL RESULTS

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

Sample: MW116 **Lab ID: 40138563004** Collected: 09/20/16 11:02 Received: 09/20/16 13:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromochloromethane	**<0.68**	ug/L	2.0	0.68	2		09/22/16 02:17	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	75-27-4	
Bromoform	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	75-25-2	
Bromomethane	**<4.9**	ug/L	10.0	4.9	2		09/22/16 02:17	74-83-9	
n-Butylbenzene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	104-51-8	
sec-Butylbenzene	**<4.4**	ug/L	10.0	4.4	2		09/22/16 02:17	135-98-8	
tert-Butylbenzene	**<0.36**	ug/L	2.0	0.36	2		09/22/16 02:17	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	56-23-5	
Chlorobenzene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	108-90-7	
Chloroethane	**<0.75**	ug/L	2.0	0.75	2		09/22/16 02:17	75-00-3	
Chloroform	**<5.0**	ug/L	10.0	5.0	2		09/22/16 02:17	67-66-3	
Chloromethane	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	74-87-3	
2-Chlorotoluene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	95-49-8	
4-Chlorotoluene	**<0.43**	ug/L	2.0	0.43	2		09/22/16 02:17	106-43-4	
1,2-Dibromo-3-chloropropane	**<4.3**	ug/L	10.0	4.3	2		09/22/16 02:17	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	124-48-1	
1,2-Dibromoethane (EDB)	**<0.36**	ug/L	2.0	0.36	2		09/22/16 02:17	106-93-4	
Dibromomethane	**<0.85**	ug/L	2.0	0.85	2		09/22/16 02:17	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	106-46-7	
Dichlorodifluoromethane	**<0.45**	ug/L	2.0	0.45	2		09/22/16 02:17	75-71-8	
1,1-Dichloroethane	**34.8**	ug/L	2.0	0.48	2		09/22/16 02:17	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/L	2.0	0.34	2		09/22/16 02:17	107-06-2	
1,1-Dichloroethene	**34.8**	ug/L	2.0	0.82	2		09/22/16 02:17	75-35-4	
cis-1,2-Dichloroethene	**1.2J**	ug/L	2.0	0.51	2		09/22/16 02:17	156-59-2	
trans-1,2-Dichloroethene	**<0.51**	ug/L	2.0	0.51	2		09/22/16 02:17	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/L	2.0	0.47	2		09/22/16 02:17	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	142-28-9	
2,2-Dichloropropane	**<0.97**	ug/L	2.0	0.97	2		09/22/16 02:17	594-20-7	
1,1-Dichloropropene	**<0.88**	ug/L	2.0	0.88	2		09/22/16 02:17	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/L	2.0	0.46	2		09/22/16 02:17	10061-02-6	
Diisopropyl ether	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	108-20-3	
Ethylbenzene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	100-41-4	
Hexachloro-1,3-butadiene	**<4.2**	ug/L	10.0	4.2	2		09/22/16 02:17	87-68-3	
Isopropylbenzene (Cumene)	**<0.29**	ug/L	2.0	0.29	2		09/22/16 02:17	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	99-87-6	
Methylene Chloride	**<0.47**	ug/L	2.0	0.47	2		09/22/16 02:17	75-09-2	
Methyl-tert-butyl ether	**<0.35**	ug/L	2.0	0.35	2		09/22/16 02:17	1634-04-4	
Naphthalene	**<5.0**	ug/L	10.0	5.0	2		09/22/16 02:17	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	103-65-1	
Styrene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	2.0	0.36	2		09/22/16 02:17	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	2.0	0.50	2		09/22/16 02:17	79-34-5	
Tetrachloroethene	**1.4J**	ug/L	2.0	1.0	2		09/22/16 02:17	127-18-4	

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ANALYTICAL RESULTS

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

Sample: MW116 **Lab ID: 40138563004** Collected: 09/20/16 11:02 Received: 09/20/16 13:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	108-88-3	
1,2,3-Trichlorobenzene	**<4.3**	ug/L	10.0	4.3	2		09/22/16 02:17	87-61-6	
1,2,4-Trichlorobenzene	**<4.4**	ug/L	10.0	4.4	2		09/22/16 02:17	120-82-1	
1,1,1-Trichloroethane	**135**	ug/L	2.0	1.0	2		09/22/16 02:17	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	2.0	0.39	2		09/22/16 02:17	79-00-5	
Trichloroethene	**1.5J**	ug/L	2.0	0.66	2		09/22/16 02:17	79-01-6	
Trichlorofluoromethane	**<0.37**	ug/L	2.0	0.37	2		09/22/16 02:17	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	108-67-8	
Vinyl chloride	**<0.35**	ug/L	2.0	0.35	2		09/22/16 02:17	75-01-4	
m&p-Xylene	**<2.0**	ug/L	4.0	2.0	2		09/22/16 02:17	179601-23-1	
o-Xylene	**<1.0**	ug/L	2.0	1.0	2		09/22/16 02:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		2		09/22/16 02:17	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		2		09/22/16 02:17	1868-53-7	
Toluene-d8 (S)	104	%	70-130		2		09/22/16 02:17	2037-26-5	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**16.1**	mg/L	0.86	0.26	50		09/21/16 09:00	18540-29-9	

Sample: MW111 **Lab ID: 40138563005** Collected: 09/20/16 11:42 Received: 09/20/16 13:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**<0.051**	mg/L	0.17	0.051	10		09/21/16 09:00	18540-29-9	D3

Sample: MW6 **Lab ID: 40138563006** Collected: 09/20/16 12:27 Received: 09/20/16 13:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**3.5**	mg/L	0.21	0.064	12.5		09/21/16 09:00	18540-29-9	

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QUALITY CONTROL DATA

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

QC Batch: 235531 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40138563001, 40138563004

METHOD BLANK: 1396053 Matrix: Water
Associated Lab Samples: 40138563001, 40138563004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	09/21/16 15:22	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	09/21/16 15:22	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	09/21/16 15:22	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	09/21/16 15:22	
1,1-Dichloroethane	ug/L	<0.24	1.0	09/21/16 15:22	
1,1-Dichloroethene	ug/L	<0.41	1.0	09/21/16 15:22	
1,1-Dichloropropene	ug/L	<0.44	1.0	09/21/16 15:22	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	09/21/16 15:22	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	09/21/16 15:22	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	09/21/16 15:22	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	09/21/16 15:22	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	09/21/16 15:22	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	09/21/16 15:22	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	09/21/16 15:22	
1,2-Dichloroethane	ug/L	<0.17	1.0	09/21/16 15:22	
1,2-Dichloropropane	ug/L	<0.23	1.0	09/21/16 15:22	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	09/21/16 15:22	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	09/21/16 15:22	
1,3-Dichloropropane	ug/L	<0.50	1.0	09/21/16 15:22	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	09/21/16 15:22	
2,2-Dichloropropane	ug/L	<0.48	1.0	09/21/16 15:22	
2-Chlorotoluene	ug/L	<0.50	1.0	09/21/16 15:22	
4-Chlorotoluene	ug/L	<0.21	1.0	09/21/16 15:22	
Benzene	ug/L	<0.50	1.0	09/21/16 15:22	
Bromobenzene	ug/L	<0.23	1.0	09/21/16 15:22	
Bromochloromethane	ug/L	<0.34	1.0	09/21/16 15:22	
Bromodichloromethane	ug/L	<0.50	1.0	09/21/16 15:22	
Bromoform	ug/L	<0.50	1.0	09/21/16 15:22	
Bromomethane	ug/L	<2.4	5.0	09/21/16 15:22	
Carbon tetrachloride	ug/L	<0.50	1.0	09/21/16 15:22	
Chlorobenzene	ug/L	<0.50	1.0	09/21/16 15:22	
Chloroethane	ug/L	<0.37	1.0	09/21/16 15:22	
Chloroform	ug/L	<2.5	5.0	09/21/16 15:22	
Chloromethane	ug/L	<0.50	1.0	09/21/16 15:22	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	09/21/16 15:22	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	09/21/16 15:22	
Dibromochloromethane	ug/L	<0.50	1.0	09/21/16 15:22	
Dibromomethane	ug/L	<0.43	1.0	09/21/16 15:22	
Dichlorodifluoromethane	ug/L	<0.22	1.0	09/21/16 15:22	
Diisopropyl ether	ug/L	<0.50	1.0	09/21/16 15:22	
Ethylbenzene	ug/L	<0.50	1.0	09/21/16 15:22	

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.

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QUALITY CONTROL DATA

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

METHOD BLANK: 1396053 Matrix: Water
Associated Lab Samples: 40138563001, 40138563004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	09/21/16 15:22	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	09/21/16 15:22	
m&p-Xylene	ug/L	<1.0	2.0	09/21/16 15:22	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	09/21/16 15:22	
Methylene Chloride	ug/L	<0.23	1.0	09/21/16 15:22	
n-Butylbenzene	ug/L	<0.50	1.0	09/21/16 15:22	
n-Propylbenzene	ug/L	<0.50	1.0	09/21/16 15:22	
Naphthalene	ug/L	<2.5	5.0	09/21/16 15:22	
o-Xylene	ug/L	<0.50	1.0	09/21/16 15:22	
p-Isopropyltoluene	ug/L	<0.50	1.0	09/21/16 15:22	
sec-Butylbenzene	ug/L	<2.2	5.0	09/21/16 15:22	
Styrene	ug/L	<0.50	1.0	09/21/16 15:22	
tert-Butylbenzene	ug/L	<0.18	1.0	09/21/16 15:22	
Tetrachloroethene	ug/L	<0.50	1.0	09/21/16 15:22	
Toluene	ug/L	<0.50	1.0	09/21/16 15:22	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	09/21/16 15:22	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	09/21/16 15:22	
Trichloroethene	ug/L	<0.33	1.0	09/21/16 15:22	
Trichlorofluoromethane	ug/L	<0.18	1.0	09/21/16 15:22	
Vinyl chloride	ug/L	<0.18	1.0	09/21/16 15:22	
4-Bromofluorobenzene (S)	%	82	70-130	09/21/16 15:22	
Dibromofluoromethane (S)	%	110	70-130	09/21/16 15:22	
Toluene-d8 (S)	%	104	70-130	09/21/16 15:22	

LABORATORY CONTROL SAMPLE: 1396054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.8	92	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	67-130	
1,1,2-Trichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethane	ug/L	50	48.2	96	70-133	
1,1-Dichloroethene	ug/L	50	42.1	84	70-130	
1,2,4-Trichlorobenzene	ug/L	50	39.5	79	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	40.0	80	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	44.8	90	70-130	
1,2-Dichlorobenzene	ug/L	50	47.9	96	70-130	
1,2-Dichloroethane	ug/L	50	51.2	102	70-130	
1,2-Dichloropropane	ug/L	50	49.3	99	70-130	
1,3-Dichlorobenzene	ug/L	50	45.5	91	70-130	
1,4-Dichlorobenzene	ug/L	50	47.3	95	70-130	
Benzene	ug/L	50	51.3	103	60-135	
Bromodichloromethane	ug/L	50	46.5	93	70-130	
Bromoform	ug/L	50	40.1	80	70-130	
Bromomethane	ug/L	50	35.9	72	33-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

LABORATORY CONTROL SAMPLE: 1396054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	45.1	90	70-138	
Chlorobenzene	ug/L	50	48.9	98	70-130	
Chloroethane	ug/L	50	38.5	77	51-130	
Chloroform	ug/L	50	48.1	96	70-130	
Chloromethane	ug/L	50	33.7	67	25-132	
cis-1,2-Dichloroethene	ug/L	50	44.2	88	69-130	
cis-1,3-Dichloropropene	ug/L	50	44.9	90	70-130	
Dibromochloromethane	ug/L	50	47.2	94	70-130	
Dichlorodifluoromethane	ug/L	50	37.2	74	23-130	
Ethylbenzene	ug/L	50	50.0	100	70-136	
Isopropylbenzene (Cumene)	ug/L	50	50.1	100	70-140	
m&p-Xylene	ug/L	100	98.0	98	70-138	
Methyl-tert-butyl ether	ug/L	50	46.3	93	66-138	
Methylene Chloride	ug/L	50	42.6	85	70-130	
o-Xylene	ug/L	50	47.8	96	70-134	
Styrene	ug/L	50	48.3	97	70-133	
Tetrachloroethene	ug/L	50	41.1	82	70-138	
Toluene	ug/L	50	47.9	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.0	86	70-131	
trans-1,3-Dichloropropene	ug/L	50	45.4	91	69-130	
Trichloroethene	ug/L	50	46.4	93	70-130	
Trichlorofluoromethane	ug/L	50	43.1	86	50-150	
Vinyl chloride	ug/L	50	42.1	84	49-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396603 1396604

Parameter	Units	40138544001 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	48.9	47.8	98	96	70-134	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	50.8	52.2	102	104	67-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	47.7	46.8	95	94	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	50.7	51.2	101	102	70-134	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	44.1	42.7	88	85	68-136	3	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	41.7	42.3	81	82	62-139	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	42.7	45.3	85	91	50-150	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	48.0	47.1	96	94	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	49.5	49.0	99	98	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	53.2	52.4	106	105	70-130	2	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	51.3	49.6	103	99	70-130	3	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	47.8	46.6	96	93	70-131	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	49.8	48.6	99	97	70-130	3	20	

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396603 1396604

Parameter	Units	40138544001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	53.1	53.8	106	108	57-138	1	20	
Bromodichloromethane	ug/L	<0.50	50	50	51.8	49.7	104	99	70-130	4	20	
Bromoform	ug/L	<0.50	50	50	41.4	42.7	83	85	70-130	3	20	
Bromomethane	ug/L	<2.4	50	50	39.8	40.6	80	81	33-130	2	27	
Carbon tetrachloride	ug/L	<0.50	50	50	48.5	47.8	97	96	70-138	1	20	
Chlorobenzene	ug/L	<0.50	50	50	50.4	49.8	101	100	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	41.4	40.1	83	80	51-130	3	20	
Chloroform	ug/L	<2.5	50	50	50.3	50.4	101	101	70-130	0	20	
Chloromethane	ug/L	<0.50	50	50	36.7	35.6	73	71	25-132	3	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	47.2	46.9	94	94	61-140	1	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	49.0	46.2	98	92	70-130	6	20	
Dibromochloromethane	ug/L	<0.50	50	50	46.2	46.1	92	92	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	39.5	39.9	79	80	23-130	1	20	
Ethylbenzene	ug/L	<0.50	50	50	51.3	51.7	103	103	70-138	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	53.1	51.1	106	102	70-152	4	20	
m&p-Xylene	ug/L	<1.0	100	100	102	102	102	102	70-140	1	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	47.5	49.4	95	99	66-139	4	20	
Methylene Chloride	ug/L	<0.23	50	50	45.2	44.9	90	90	70-130	1	20	
o-Xylene	ug/L	<0.50	50	50	49.1	48.3	98	97	70-134	2	20	
Styrene	ug/L	<0.50	50	50	52.3	50.6	105	101	70-138	3	20	
Tetrachloroethene	ug/L	<0.50	50	50	43.8	42.3	88	85	70-148	3	20	
Toluene	ug/L	<0.50	50	50	49.5	50.1	99	100	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	45.9	46.2	92	92	70-133	1	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	46.4	46.7	93	93	69-130	0	20	
Trichloroethene	ug/L	<0.33	50	50	50.9	47.9	102	96	70-131	6	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	46.2	45.6	92	91	50-150	1	20	
Vinyl chloride	ug/L	<0.18	50	50	46.9	44.6	94	89	49-133	5	20	
4-Bromofluorobenzene (S)	%						94	93	70-130			
Dibromofluoromethane (S)	%						103	106	70-130			
Toluene-d8 (S)	%						101	103	70-130			

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1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

QC Batch: 235550 Analysis Method: SM 3500-Cr B (Online)
QC Batch Method: SM 3500-Cr B (Online) Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 40138563002, 40138563003, 40138563004, 40138563005, 40138563006

METHOD BLANK: 1396109 Matrix: Water
Associated Lab Samples: 40138563002, 40138563003, 40138563004, 40138563005, 40138563006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0051	0.017	09/21/16 09:00	

LABORATORY CONTROL SAMPLE: 1396110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.31	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396111 1396112

Parameter	Units	40138563002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	<0.026	1.5	1.5	1.5	1.5	100	102	90-110	1	20	

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QUALIFIERS

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: N1969A07_008 BETTER BRITE
Pace Project No.: 40138563

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40138563001	**TRIP BLANK**	EPA 8260	235531		
40138563004	**MW116**	EPA 8260	235531		
40138563002	**MW115A**	SM 3500-Cr B (Online)	235550		
40138563003	**MW115**	SM 3500-Cr B (Online)	235550		
40138563004	**MW116**	SM 3500-Cr B (Online)	235550		
40138563005	**MW111**	SM 3500-Cr B (Online)	235550		
40138563006	**MW6**	SM 3500-Cr B (Online)	235550		

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

401385623

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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:	OMNNI Associates
Branch/Location:	Appleton
Project Contact:	Brian Wayner
Phone:	(920)735-6900
Project Number:	N1969A07-008
Project Name:	Better Brite
Project State:	WI
Sampled By (Print):	Kim Kennedy
Sampled By (Sign):	Kim Kennedy
PO #:	Regulatory Program:

Quote #:	00028709
Mail To Contact:	Brian Wayner
Mail To Company:	OMNNI Associates
Mail To Address:	1 N. Systems Dr. Appleton, WI 54914
Invoice To Contact:	
Invoice To Company:	SAME
Invoice To Address:	
Invoice To Phone:	(920)735-6900

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: Hex Chromium	VOCs	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	TRIP BLANK	LAB PROVIDED		GW				X		2-40mlVB	
002	MW115A	9/20	9:55				X			1-250mlPA	
003	MW115		10:19				X				
004	MW116		11:02				X	X	3-40mlVB		
005	MW111		11:42				X				
006	MW6		12:27				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:
Kim Kennedy	9/20/16 13:23	Kati Abram Pace	9/20/16 1323

PACE Project No.
401385623

Receipt Temp = ROI °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Project #: WO#: 40138563

Client Name: OMNNI ASSOC.

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

Tracking #: _____

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 8/19/2016 ☑ Samples on ice, cooling process has begun

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

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 9/20/16
Initials: BK

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 / 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): 369		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 9/20/16

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

September 30, 2016

Brian Wayner
Omnni Associates, Inc.
One Systems Drive
Appleton, WI 549141654

RE: Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

Dear Brian Wayner:
Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 2016. 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,

Steven Mleczko
steve.mleczko@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40138526001	**TRIP BLANK**	Water	09/19/16 00:00	09/19/16 16:39
40138526002	**MW-9**	Water	09/19/16 09:44	09/19/16 16:39
40138526003	**MW-10**	Water	09/19/16 10:26	09/19/16 16:39
40138526004	**W-1**	Water	09/19/16 10:59	09/19/16 16:39
40138526005	**W-1A**	Water	09/19/16 11:21	09/19/16 16:39
40138526006	**MW-3R**	Water	09/19/16 12:14	09/19/16 16:39
40138526007	**ZINC SHOP SUMP**	Water	09/19/16 12:59	09/19/16 16:39
40138526008	**MW-5**	Water	09/19/16 13:57	09/19/16 16:39
40138526009	**MW-2**	Water	09/19/16 14:29	09/19/16 16:39

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SAMPLE ANALYTE COUNT

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40138526001	**TRIP BLANK**	EPA 8260	LAP	64	PASI-G
40138526002	**MW-9**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40138526003	**MW-10**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40138526004	**W-1**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40138526005	**W-1A**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40138526006	**MW-3R**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40138526007	**ZINC SHOP SUMP**	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	64	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G
		EPA 335.4	DAW	1	PASI-G
40138526008	**MW-5**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40138526009	**MW-2**	SM 3500-Cr B (Online)	DEY	1	PASI-G

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ANALYTICAL RESULTS

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

Sample: TRIP BLANK **Lab ID: 40138526001** Collected: 09/19/16 00:00 Received: 09/19/16 16:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		09/21/16 15:50	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		09/21/16 15:50	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		09/21/16 15:50	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		09/21/16 15:50	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		09/21/16 15:50	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		09/21/16 15:50	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		09/21/16 15:50	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		09/21/16 15:50	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		09/21/16 15:50	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		09/21/16 15:50	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		09/21/16 15:50	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		09/21/16 15:50	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/21/16 15:50	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		09/21/16 15:50	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		09/21/16 15:50	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/21/16 15:50	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/21/16 15:50	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		09/21/16 15:50	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		09/21/16 15:50	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		09/21/16 15:50	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		09/21/16 15:50	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		09/21/16 15:50	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		09/21/16 15:50	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		09/21/16 15:50	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		09/21/16 15:50	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		09/21/16 15:50	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		09/21/16 15:50	630-20-6	

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ANALYTICAL RESULTS

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

Sample: TRIP BLANK **Lab ID: 40138526001** Collected: 09/19/16 00:00 Received: 09/19/16 16:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		09/21/16 15:50	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		09/21/16 15:50	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		09/21/16 15:50	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		09/21/16 15:50	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		09/21/16 15:50	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		09/21/16 15:50	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/21/16 15:50	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		09/21/16 15:50	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 15:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		09/21/16 15:50	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		09/21/16 15:50	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		09/21/16 15:50	2037-26-5	

Sample: MW-9 **Lab ID: 40138526002** Collected: 09/19/16 09:44 Received: 09/19/16 16:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**<0.026**	mg/L	0.086	0.026	5		09/20/16 08:30	18540-29-9	D3

Sample: MW-10 **Lab ID: 40138526003** Collected: 09/19/16 10:26 Received: 09/19/16 16:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**9.8**	mg/L	0.43	0.13	25		09/20/16 08:30	18540-29-9	

Sample: W-1 **Lab ID: 40138526004** Collected: 09/19/16 10:59 Received: 09/19/16 16:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**9.6**	mg/L	0.43	0.13	25		09/20/16 08:30	18540-29-9	

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ANALYTICAL RESULTS

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

Sample: W-1A **Lab ID: 40138526005** Collected: 09/19/16 11:21 Received: 09/19/16 16:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**2.8**	mg/L	0.086	0.026	5		09/20/16 08:30	18540-29-9	

Sample: MW-3R **Lab ID: 40138526006** Collected: 09/19/16 12:14 Received: 09/19/16 16:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**0.38**	mg/L	0.017	0.0051	1		09/20/16 08:30	18540-29-9	

Sample: ZINC SHOP SUMP **Lab ID: 40138526007** Collected: 09/19/16 12:59 Received: 09/19/16 16:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	**<7.3**	ug/L	20.0	7.3	1	09/26/16 15:45	09/27/16 16:09	7440-36-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		09/21/16 17:39	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		09/21/16 17:39	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		09/21/16 17:39	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		09/21/16 17:39	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		09/21/16 17:39	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		09/21/16 17:39	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		09/21/16 17:39	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		09/21/16 17:39	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		09/21/16 17:39	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		09/21/16 17:39	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		09/21/16 17:39	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		09/21/16 17:39	75-71-8	
1,1-Dichloroethane	**1.4**	ug/L	1.0	0.24	1		09/21/16 17:39	75-34-3	

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ANALYTICAL RESULTS

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

Sample: ZINC SHOP SUMP **Lab ID: 40138526007** Collected: 09/19/16 12:59 Received: 09/19/16 16:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		09/21/16 17:39	107-06-2	
1,1-Dichloroethene	**1.2**	ug/L	1.0	0.41	1		09/21/16 17:39	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/21/16 17:39	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/21/16 17:39	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		09/21/16 17:39	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		09/21/16 17:39	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		09/21/16 17:39	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		09/21/16 17:39	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		09/21/16 17:39	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		09/21/16 17:39	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		09/21/16 17:39	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		09/21/16 17:39	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		09/21/16 17:39	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		09/21/16 17:39	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		09/21/16 17:39	79-34-5	
Tetrachloroethene	**0.79J**	ug/L	1.0	0.50	1		09/21/16 17:39	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		09/21/16 17:39	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		09/21/16 17:39	120-82-1	
1,1,1-Trichloroethane	**22.6**	ug/L	1.0	0.50	1		09/21/16 17:39	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		09/21/16 17:39	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		09/21/16 17:39	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		09/21/16 17:39	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/21/16 17:39	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		09/21/16 17:39	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 17:39	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		09/21/16 17:39	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		09/21/16 17:39	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		09/21/16 17:39	2037-26-5	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**14.0**	mg/L	0.86	0.26	50		09/20/16 08:30	18540-29-9	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**0.16**	mg/L	0.14	0.041	1	09/26/16 09:55	09/26/16 13:20	57-12-5	

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ANALYTICAL RESULTS

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

Sample: MW-5 **Lab ID: 40138526008** Collected: 09/19/16 13:57 Received: 09/19/16 16:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**0.46**	mg/L	0.017	0.0051	1		09/20/16 08:30	18540-29-9	

Sample: MW-2 **Lab ID: 40138526009** Collected: 09/19/16 14:29 Received: 09/19/16 16:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**<0.0051**	mg/L	0.017	0.0051	1		09/20/16 08:30	18540-29-9	

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QUALITY CONTROL DATA

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

QC Batch: 236218
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 40138526007

METHOD BLANK: 1400631 Matrix: Water
Associated Lab Samples: 40138526007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<7.3	20.0	09/27/16 15:53	

LABORATORY CONTROL SAMPLE: 1400632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	492	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400633 1400634

Parameter	Units	40138796007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<7.3	500	500	512	516	102	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

QC Batch: 235352 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40138526001, 40138526007

METHOD BLANK: 1394994 Matrix: Water
Associated Lab Samples: 40138526001, 40138526007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	09/21/16 06:53	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	09/21/16 06:53	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	09/21/16 06:53	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	09/21/16 06:53	
1,1-Dichloroethane	ug/L	<0.24	1.0	09/21/16 06:53	
1,1-Dichloroethene	ug/L	<0.41	1.0	09/21/16 06:53	
1,1-Dichloropropene	ug/L	<0.44	1.0	09/21/16 06:53	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	09/21/16 06:53	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	09/21/16 06:53	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	09/21/16 06:53	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	09/21/16 06:53	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	09/21/16 06:53	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	09/21/16 06:53	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	09/21/16 06:53	
1,2-Dichloroethane	ug/L	<0.17	1.0	09/21/16 06:53	
1,2-Dichloropropane	ug/L	<0.23	1.0	09/21/16 06:53	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	09/21/16 06:53	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	09/21/16 06:53	
1,3-Dichloropropane	ug/L	<0.50	1.0	09/21/16 06:53	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	09/21/16 06:53	
2,2-Dichloropropane	ug/L	<0.48	1.0	09/21/16 06:53	
2-Chlorotoluene	ug/L	<0.50	1.0	09/21/16 06:53	
4-Chlorotoluene	ug/L	<0.21	1.0	09/21/16 06:53	
Benzene	ug/L	<0.50	1.0	09/21/16 06:53	
Bromobenzene	ug/L	<0.23	1.0	09/21/16 06:53	
Bromochloromethane	ug/L	<0.34	1.0	09/21/16 06:53	
Bromodichloromethane	ug/L	<0.50	1.0	09/21/16 06:53	
Bromoform	ug/L	<0.50	1.0	09/21/16 06:53	
Bromomethane	ug/L	<2.4	5.0	09/21/16 06:53	
Carbon tetrachloride	ug/L	<0.50	1.0	09/21/16 06:53	
Chlorobenzene	ug/L	<0.50	1.0	09/21/16 06:53	
Chloroethane	ug/L	<0.37	1.0	09/21/16 06:53	
Chloroform	ug/L	<2.5	5.0	09/21/16 06:53	
Chloromethane	ug/L	<0.50	1.0	09/21/16 06:53	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	09/21/16 06:53	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	09/21/16 06:53	
Dibromochloromethane	ug/L	<0.50	1.0	09/21/16 06:53	
Dibromomethane	ug/L	<0.43	1.0	09/21/16 06:53	
Dichlorodifluoromethane	ug/L	<0.22	1.0	09/21/16 06:53	
Diisopropyl ether	ug/L	<0.50	1.0	09/21/16 06:53	
Ethylbenzene	ug/L	<0.50	1.0	09/21/16 06:53	

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QUALITY CONTROL DATA

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

METHOD BLANK: 1394994 Matrix: Water
Associated Lab Samples: 40138526001, 40138526007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	09/21/16 06:53	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	09/21/16 06:53	
m&p-Xylene	ug/L	<1.0	2.0	09/21/16 06:53	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	09/21/16 06:53	
Methylene Chloride	ug/L	<0.23	1.0	09/21/16 06:53	
n-Butylbenzene	ug/L	<0.50	1.0	09/21/16 06:53	
n-Propylbenzene	ug/L	<0.50	1.0	09/21/16 06:53	
Naphthalene	ug/L	<2.5	5.0	09/21/16 06:53	
o-Xylene	ug/L	<0.50	1.0	09/21/16 06:53	
p-Isopropyltoluene	ug/L	<0.50	1.0	09/21/16 06:53	
sec-Butylbenzene	ug/L	<2.2	5.0	09/21/16 06:53	
Styrene	ug/L	<0.50	1.0	09/21/16 06:53	
tert-Butylbenzene	ug/L	<0.18	1.0	09/21/16 06:53	
Tetrachloroethene	ug/L	<0.50	1.0	09/21/16 06:53	
Toluene	ug/L	<0.50	1.0	09/21/16 06:53	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	09/21/16 06:53	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	09/21/16 06:53	
Trichloroethene	ug/L	<0.33	1.0	09/21/16 06:53	
Trichlorofluoromethane	ug/L	<0.18	1.0	09/21/16 06:53	
Vinyl chloride	ug/L	<0.18	1.0	09/21/16 06:53	
4-Bromofluorobenzene (S)	%	88	70-130	09/21/16 06:53	
Dibromofluoromethane (S)	%	101	70-130	09/21/16 06:53	
Toluene-d8 (S)	%	99	70-130	09/21/16 06:53	

LABORATORY CONTROL SAMPLE: 1394995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.4	101	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	67-130	
1,1,2-Trichloroethane	ug/L	50	49.3	99	70-130	
1,1-Dichloroethane	ug/L	50	49.1	98	70-133	
1,1-Dichloroethene	ug/L	50	44.4	89	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.7	103	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	70-130	
1,2-Dichlorobenzene	ug/L	50	51.7	103	70-130	
1,2-Dichloroethane	ug/L	50	50.1	100	70-130	
1,2-Dichloropropane	ug/L	50	49.7	99	70-130	
1,3-Dichlorobenzene	ug/L	50	52.2	104	70-130	
1,4-Dichlorobenzene	ug/L	50	50.6	101	70-130	
Benzene	ug/L	50	52.9	106	60-135	
Bromodichloromethane	ug/L	50	52.0	104	70-130	
Bromoform	ug/L	50	45.4	91	70-130	
Bromomethane	ug/L	50	33.9	68	33-130	

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QUALITY CONTROL DATA

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

LABORATORY CONTROL SAMPLE: 1394995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	52.5	105	70-138	
Chlorobenzene	ug/L	50	51.5	103	70-130	
Chloroethane	ug/L	50	37.6	75	51-130	
Chloroform	ug/L	50	50.4	101	70-130	
Chloromethane	ug/L	50	33.7	67	25-132	
cis-1,2-Dichloroethene	ug/L	50	47.5	95	69-130	
cis-1,3-Dichloropropene	ug/L	50	49.5	99	70-130	
Dibromochloromethane	ug/L	50	51.0	102	70-130	
Dichlorodifluoromethane	ug/L	50	32.0	64	23-130	
Ethylbenzene	ug/L	50	53.4	107	70-136	
Isopropylbenzene (Cumene)	ug/L	50	53.8	108	70-140	
m&p-Xylene	ug/L	100	107	107	70-138	
Methyl-tert-butyl ether	ug/L	50	47.5	95	66-138	
Methylene Chloride	ug/L	50	46.7	93	70-130	
o-Xylene	ug/L	50	51.7	103	70-134	
Styrene	ug/L	50	50.5	101	70-133	
Tetrachloroethene	ug/L	50	51.2	102	70-138	
Toluene	ug/L	50	51.6	103	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.2	96	70-131	
trans-1,3-Dichloropropene	ug/L	50	47.8	96	69-130	
Trichloroethene	ug/L	50	52.0	104	70-130	
Trichlorofluoromethane	ug/L	50	47.2	94	50-150	
Vinyl chloride	ug/L	50	43.1	86	49-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396013 1396014

Parameter	Units	40138476001 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	49.5	49.3	99	99	70-134	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	48.3	52.8	97	106	67-130	9	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	48.6	49.2	97	98	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	47.5	48.1	95	96	70-134	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	43.4	42.8	87	86	68-136	1	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	46.8	49.3	94	99	62-139	5	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	47.4	50.6	95	101	50-150	7	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	49.0	50.3	98	101	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	48.7	51.9	97	104	70-130	6	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	48.0	49.4	96	99	70-130	3	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	50.3	51.3	101	103	70-131	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	47.6	50.1	95	100	70-130	5	20	

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QUALITY CONTROL DATA

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396013 1396014

Parameter	Units	40138476001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	51.7	51.8	103	104	57-138	0	20	
Bromodichloromethane	ug/L	<0.50	50	50	49.9	51.2	100	102	70-130	3	20	
Bromoform	ug/L	<0.50	50	50	45.5	45.7	91	91	70-130	1	20	
Bromomethane	ug/L	<2.4	50	50	34.1	34.1	68	68	33-130	0	27	
Carbon tetrachloride	ug/L	<0.50	50	50	50.5	52.5	101	105	70-138	4	20	
Chlorobenzene	ug/L	<0.50	50	50	50.7	51.4	101	103	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	36.0	36.9	72	74	51-130	2	20	
Chloroform	ug/L	<2.5	50	50	49.7	50.5	99	101	70-130	2	20	
Chloromethane	ug/L	<0.50	50	50	32.5	32.0	65	64	25-132	1	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	46.7	46.9	93	94	61-140	1	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	47.8	49.2	96	98	70-130	3	20	
Dibromochloromethane	ug/L	<0.50	50	50	49.2	51.3	98	103	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	29.7	29.9	59	60	23-130	1	20	
Ethylbenzene	ug/L	<0.50	50	50	52.2	52.5	104	105	70-138	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	52.2	53.1	104	106	70-152	2	20	
m&p-Xylene	ug/L	<1.0	100	100	105	106	105	106	70-140	2	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	46.7	47.0	93	94	66-139	1	20	
Methylene Chloride	ug/L	<0.23	50	50	45.3	46.3	91	93	70-130	2	20	
o-Xylene	ug/L	<0.50	50	50	50.5	51.7	101	103	70-134	3	20	
Styrene	ug/L	<0.50	50	50	49.2	50.4	98	101	70-138	2	20	
Tetrachloroethene	ug/L	<0.50	50	50	49.7	48.9	99	98	70-148	2	20	
Toluene	ug/L	<0.50	50	50	49.6	50.7	99	101	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	47.2	46.6	94	93	70-133	1	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	48.4	48.9	97	98	69-130	1	20	
Trichloroethene	ug/L	<0.33	50	50	50.9	50.4	102	101	70-131	1	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	46.7	47.2	93	94	50-150	1	20	
Vinyl chloride	ug/L	<0.18	50	50	42.8	41.4	86	83	49-133	3	20	
4-Bromofluorobenzene (S)	%						99	96	70-130			
Dibromofluoromethane (S)	%						101	101	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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QUALITY CONTROL DATA

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

QC Batch: 235405 Analysis Method: SM 3500-Cr B (Online)
QC Batch Method: SM 3500-Cr B (Online) Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 40138526002, 40138526003, 40138526004, 40138526005, 40138526006, 40138526007, 40138526008, 40138526009

METHOD BLANK: 1395184 Matrix: Water
Associated Lab Samples: 40138526002, 40138526003, 40138526004, 40138526005, 40138526006, 40138526007, 40138526008, 40138526009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0051	0.017	09/20/16 08:30	

LABORATORY CONTROL SAMPLE: 1395185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.30	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1395186 1395187

Parameter	Units	40138526002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	<0.026	1.5	1.5	1.5	1.5	97	100	90-110	3	20	

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QUALITY CONTROL DATA

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

QC Batch: 236089
QC Batch Method: EPA 335.4
Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 40138526007

METHOD BLANK: 1400221 Matrix: Water
Associated Lab Samples: 40138526007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0068	0.023	09/26/16 12:59	

LABORATORY CONTROL SAMPLE: 1400222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400223 1400224

Parameter	Units	40138470009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.021J	.1	.1	0.11	0.11	88	88	90-110	0	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400225 1400226

Parameter	Units	40138526007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.16	.6	.6	0.75	0.75	98	98	90-110	0	20	

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QUALIFIERS

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: N1969A07-008 BETTER BRITE
Pace Project No.: 40138526

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40138526007	**ZINC SHOP SUMP**	EPA 3010	236218	EPA 6010	236302
40138526001	**TRIP BLANK**	EPA 8260	235352		
40138526007	**ZINC SHOP SUMP**	EPA 8260	235352		
40138526002	**MW-9**	SM 3500-Cr B (Online)	235405		
40138526003	**MW-10**	SM 3500-Cr B (Online)	235405		
40138526004	**W-1**	SM 3500-Cr B (Online)	235405		
40138526005	**W-1A**	SM 3500-Cr B (Online)	235405		
40138526006	**MW-3R**	SM 3500-Cr B (Online)	235405		
40138526007	**ZINC SHOP SUMP**	SM 3500-Cr B (Online)	235405		
40138526008	**MW-5**	SM 3500-Cr B (Online)	235405		
40138526009	**MW-2**	SM 3500-Cr B (Online)	235405		
40138526007	**ZINC SHOP SUMP**	EPA 335.4	236089	EPA 335.4	236142

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

CHAIN OF CUSTODY

40138526

*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:	OMNNI Associates
Branch/Location:	Appleton
Project Contact:	Brian Wayner
Phone:	(920) 830-6141
Project Number:	N1969A07-008
Project Name:	Better Brite
Project State:	WI
Sampled By (Print):	Kim Kennedy
Sampled By (Sign):	Kim Kennedy
PO #:	Regulatory Program:

Quote #:	000 28709
Mail To Contact:	Brian Wayner
Mail To Company:	OMNNI Associates
Mail To Address:	1 N. Systems Dr. Appleton, WI 54914
Invoice To Contact:	Brian Wayner
Invoice To Company:	
Invoice To Address:	SAME
Invoice To Phone:	

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	Hex Chromium	VOCs	Cyanide	Antimony	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	TRIP BLANK	LAB PROVIDED		GW	N	A		X				2-40ml B	
002	MW-9	9/19	9:44		N	B	X					1-250ml P Adj 9-19-16	
003	MW-10		10:26		N	B	X						
004	W-1		10:59		N	B	X						
005	W-1A		11:21		N	B	X						
006	MW-3R		12:14		N	B	X						
007	Zinc Shop Sump		12:59		N	B	X	X	X	X		3-250ml P AGD 3-40ml B	
008	MW-5		13:57		N	B	X						
009	MW-2		14:29		N	B	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:
Kim Kennedy	9-19-16 16:07	Melissa Vanessa Pace	9-19-16 1607

PACE Project No.
40138526

Receipt Temp = 2.0 1 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Project #: WO#: 40138526

40138526

Client Name: Omni

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

Tracking #: _____

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

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 9-19-16
Initials: NV

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: NV / 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): 3609		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 9/19/16

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