ENVIRONEERING, INC.

GROUNDWATER SAMPLING REPORT

FOR THE

BADIN BUSINESS PARK FACILITY
BADIN, NORTH CAROLINA

September 11, 2018

Prepared for:

Badin Business Park LLC
Highway 740
Badin, North Carolina 28009

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1.0 INTRODUCTION

The April 28, 2017 Investigative Work Plan for the Phase 4 and 5 Corrective Measures Study, Alcoa/Badin Landfill, and Former Ball Field (Work Plan) was developed as a guidance document in support of sampling and investigative activities at the Badin Business Park LLC, formerly known as the Alcoa Badin Works facility. The Work Plan was prepared following receipt of the North Carolina Department of Environmental Quality (NCDEQ) January 23, 2017 correspondence concerning the review of Phase 4 and 5 of the Corrective Measures Study (CMS), the Expanded Pre-CERCLIS Screening Assessment (EPSA) for the Former Ball Field, and the Site Inspection Report (SIR) for the Alcoa/Badin Landfill. NCDEQ determined that further evaluation was warranted and requested that a demonstration be made that identified items had been evaluated or prepare a work plan to evaluate those items. Select items were addressed in a March 3, 2017 written response and in a meeting with NCDEQ on March 28, 2017. On April 2, 2018, the Work Plan was revised incorporating requirements from the January 31, 2018 conditional approval letter and the instream monitoring study requirements of the September 29, 2017 Final NPDES Permit, Condition A. (8.). Implementation of the Work Plan began in April 2018.

The approach for investigative activities was developed based on information obtained from site reconnaissance, previous investigations, and remedial activities conducted at the facility. The Work Plan was organized by the tasks:

- Task 1 – Alcoa/Badin Landfill
- Task 2 – Main Plant Area
- Task 3 – Former Ball Field Area

The scope of work for each of the tasks was summarized in Section 2 of the Work Plan. The following report details activities in support of Task 2, investigations at the Main Plant Area.

1.1 Site Overview

The facility is located on State Highway 740 within the Town of Badin, North Carolina, and occupies approximately 123 acres of land. Production at the Badin Works facility began in 1916 and continued through 2002. Principal products once manufactured at the facility included carbon cathodes and anodes, continuous cast sheets, and specialty metals. The facility was permanently closed in 2010 and several buildings were razed in 2012. In 2016, the legal owner and operator of the facility transferred from Alcoa Inc. to the Badin Business Park LLC, a subsidiary Alcoa Corporation (Alcoa).

In March 2001, a RCRA Investigation (RFI) report was submitted for the facility. The RFI identified trichloroethene (TCE) as a constituent of concern in groundwater in the northeast corner of the former main plant area. As part of the January 23, 2017 correspondence concerning the review of Phase 4 and 5 of the CMS, the NCDEQ requested additional groundwater sampling from newly installed monitoring well MW-110. To satisfy the NCDEQ request, the April 2, 2018, Work Plan outlined activities to meet NCDEQ's objective.

1.2 Scope of Work

To address the objective of determining if TCE is present in monitoring well (MW-110) and to update the TCE groundwater concentration data at the Main Plant area, groundwater samples were collected from four monitoring wells (MW-4, MW-9, MW-16, and MW 110). The groundwater samples were analyzed for volatile organic compounds (VOCs) including TCE. Results from the completion of the scope of work are detailed below.

2.0 SAMPLING RESULTS

To complete the objectives concerning the Main Plant area, groundwater samples were collected from monitoring wells MW-4, MW-9, MW-16, and MW-110 on July 9 and 10, 2018. Monitoring well locations are presented on Figure 2-1. The laboratory results for this sampling event are summarized in the following tables:

- Table 2-1 Field Data from July 2018 Sampling Event; and
- Table 2-2 Groundwater Analytical Results from July 2018 Sampling Event
- Table 2-3 Field Blank Analytical Results from July 2018 Sampling Event.

A copy of the laboratory analytical report and chain-of-custody form for the groundwater sampling event is provided in Appendix A.

2.1 Sampling Technique

The sampling technique employed during the sampling events consisted of low flow purging and sampling of the well following *Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells* guidance issued by USEPA. This guidance was based on the April 1996 *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* by Robert W. Puls and Michael J. Barcelona.

Sample collection, shipment, and decontamination followed procedures outlined in the April 2, 2018 Work Plan. After purging, water samples were then collected for laboratory analysis. Samples were placed in clean, laboratory-provided, 40 milliliter glass vials, and immediately placed on ice to preserve their physical and chemical integrity. Prior to shipment, the samples were repacked in an ice-packed cooler with chain-of-custody documentation and dropped off at the analytical laboratory via courier the day after collection.

2.2 Field Parameters

Field parameters (pH, temperature, conductance, dissolved oxygen, and oxidation-reduction potential) were measured and recorded during the groundwater sampling event. Units of pH were observed to range from 6.73 to 7.63, which is consistent with historical data. With the exception of an outlier at well MW-4 (23.93°C), temperature ranged from 19.33°C to 20.69°C. Conductance ranged from 0.146 mS/cm to 0.386 mS/cm. Dissolved oxygen was observed at concentrations of 0.56 mg/L, 0.64 mg/L, 5.4 mg/L and 5.51 mg/L for MW-110, MW-9, MW-16, and MW-4, respectively.

2.3 Analytical Results

Recent groundwater sampling data indicates that only TCE was detected at concentrations exceeding the 15A North Carolina Administrative Code (NCAC) 2L groundwater standard in monitoring wells (MW-4, MW-9, MW-16, and MW-110). Monitoring well MW-9 contained concentrations of 1,1-dichloroethene and cis-1,2-dichloroethene above laboratory detection limits, however the concentrations were below the

15A NCAC 2L groundwater standards. No other constituents were detected at concentrations above laboratory detection limits in any of the monitoring wells sampled.

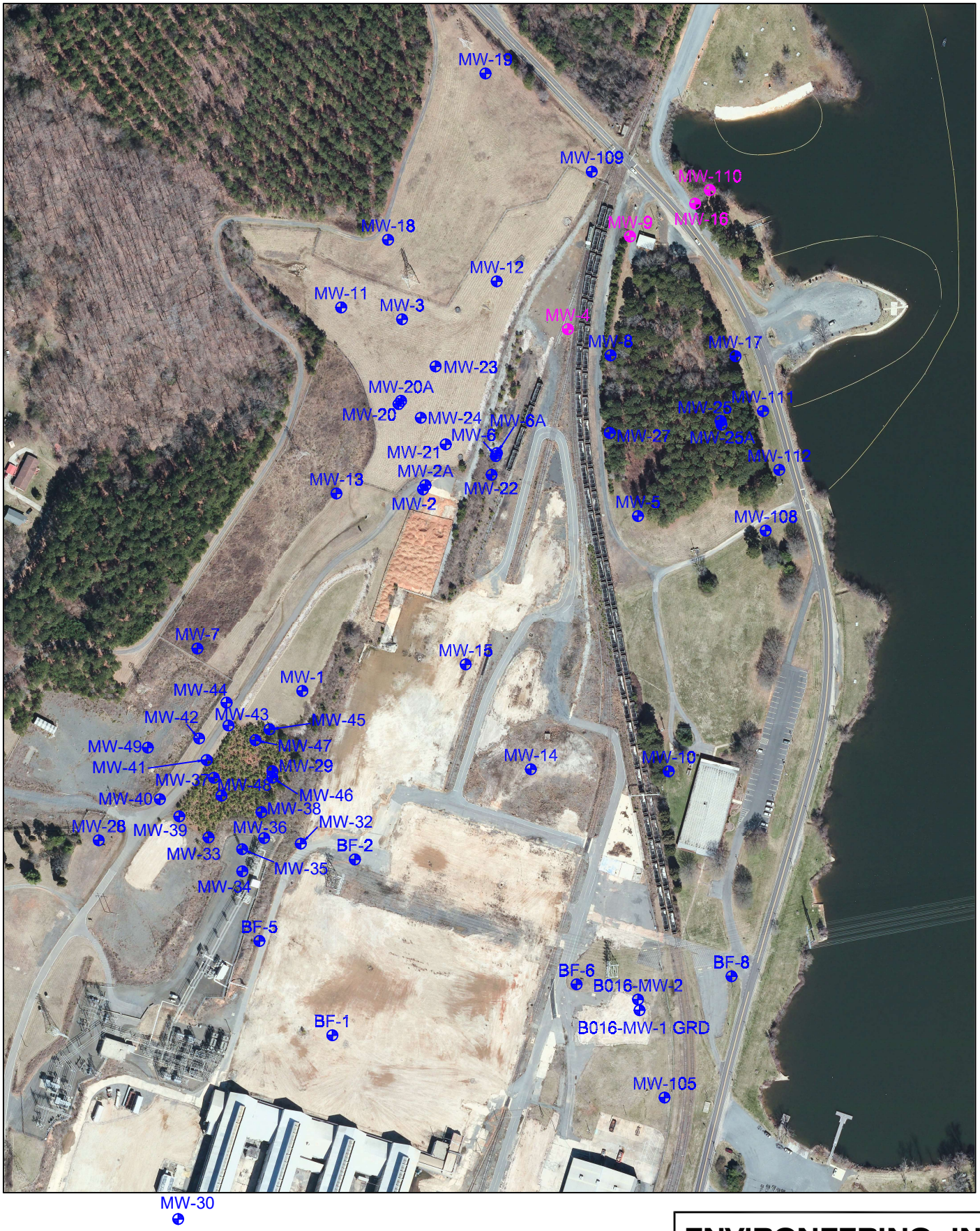
Monitoring well MW-4 is located within the fenced boundary of the facility and has exhibited a downward trend in concentration of TCE (0.0085 milligrams per liter (mg/l)) since December 2011 (0.040 mg/l). Monitoring well MW-9 is located downgradient of MW-4, and also has exhibited decreasing concentrations of TCE between December 2011 (0.086 milligrams per liter (mg/l)) and July 2018 (0.0661 mg/l).

Monitoring well MW-16 is located downgradient of MW-9 and has exhibited slightly decreasing concentrations of TCE between December 2011 (0.019 milligrams per liter (mg/l)) and July 2018 (0.0086 mg/l). Monitoring well MW-110 is located downgradient of MW-16 and contained a concentration of TCE (0.0065 mg/l) slightly above the 15A NCAC 2L groundwater standard (0.003 mg/l).

2.4 Field Blanks

One trip blank was analyzed as part of this project. The trip blank was prepared prior to the sampling event in the actual sample containers and was kept with the groundwater samples throughout the sampling event. The trip blank was packaged for shipment with the groundwater samples and sent for analysis Results are summarized in Table 2-3. No constituents were detected at concentrations above laboratory detection limits in the trip blank.

One equipment blank was analyzed as part of this project. The equipment blank was prepared by running analyte free distilled water through groundwater sample collection equipment (pump) after decontamination and placing it in the appropriate sample containers for analysis. Results are summarized in Table 2-3. Chloromethane was the only analyte detected in the equipment blank and is within the estimated result range. It is not believed that this single analyte at a low level will have any negative effects on the field sample results and may be either a laboratory contaminant or from the source water used to collect the equipment blank. None of the field samples had detectible levels of chloromethane.



0 300 600

SCALE IN FEET

SAMPLED MONITORING WELL

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FIGURE 2-1

MAIN PLANT
GROUNDWATER SAMPLING

BADIN BUSINESS PARK FACILITY
BADIN, NORTH CAROLINA

DRAWN BY:	DATE:	PROJ. NO.
MWW	09/05/2018	137-261

Table 2-1
Field Data from July 2018 Sampling Event
Badin Business Park Facility
Badin, North Carolina

Sample ID	Units	ABP-MW004-F005	ABP-MW009-F005	ABP-MW016-F005	ABP-MW110-F005
Lab ID		92391523001	92391523002	92391523003	92391523005
Location		**MW-4**	**MW-9**	**MW-16**	**MW-110**
Date		7/9/2018	7/9/2018	7/9/2018	7/10/2018
Time		18:25	12:55	11:30	8:45
TOC Elevation	*ft* [1]	*523.80*	*528.39*	*519.31*	*511.34*
Depth to Water	*ft* [2]	*10.22*	*17.79*	*11.33*	*3.55*
Water Elevation	*ft* [1]	*513.58*	*510.60*	*507.98*	*507.79*
Purge Method		*Low flow*	*Low flow*	*Low flow*	*Low flow*
Purge Volume	*ml*	*9500*	*4000*	*4900*	*5800*
Sample Method		*Low flow*	*Low flow*	*Low flow*	*Low flow*
pH		*6.73*	*6.78*	*7.63*	*6.84*
Temperature	*C*	*23.93*	*20.69*	*19.34*	*19.33*
Conductance	*mS/cm*	*0.146*	*0.292*	*0.386*	*0.357*
Dissolved Oxygen	*mg/L*	*5.51*	*0.64*	*5.40*	*0.56*
Oxidation Reduction Potential	*mV*	*258*	*307*	*269*	*306*
Turbidity	*NT*	*18.90*	*1.10*	*2.20*	*11.90*

Notes:

ft [1] *- Elevation in relation to the NAVD 88 Datum.*

ft [2] *- Depth relative to top of casing (TOC).*

Table 2-2
Groundwater Analytical Results from July 2018 Sampling Event
Badin Business Park Facility
Badin, North Carolina

Sample ID	CAS	Units	RL	ABP-MW004-F005	ABP-MW009-F005	ABP-MW016-F005	ABP-MW110-F005	ABP-MW110-D005
Lab ID				92391523001	92391523002	92391523003	92391523005	92391523004
Location				**MW-4**	**MW-9**	**MW-16**	**MW-110**	**MW-110**
Date				7/9/2018	7/9/2018	7/9/2018	7/10/2018	7/10/2018
Time				18:25	12:55	11:30	8:45	8:50
1,1,1,2-Tetrachloroethane	**630-20-6**	*mg/l*	*0.0010*	ND $_{0.00033}$	ND $_{0.00033}$	ND $_{0.00033}$	ND $_{0.00033}$	ND $_{0.00033}$
1,1,1-Trichloroethane	**71-55-6**	*mg/l*	*0.0010*	ND $_{0.00048}$	ND $_{0.00048}$	ND $_{0.00048}$	ND $_{0.00048}$	ND $_{0.00048}$
1,1,2,2-Tetrachloroethane	**79-34-5**	*mg/l*	*0.0010*	ND $_{0.00040}$	ND $_{0.00040}$	ND $_{0.00040}$	ND $_{0.00040}$	ND $_{0.00040}$
1,1,2-Trichloroethane	**79-00-5**	*mg/l*	*0.0010*	ND $_{0.00029}$	ND $_{0.00029}$	ND $_{0.00029}$	ND $_{0.00029}$	ND $_{0.00029}$
1,1-Dichloroethane	**75-34-3**	*mg/l*	*0.0010*	ND $_{0.00032}$	ND $_{0.00032}$	ND $_{0.00032}$	ND $_{0.00032}$	ND $_{0.00032}$
1,1-Dichloroethene	**75-35-4**	*mg/l*	*0.0010*	ND $_{0.00056}$	0.0012	ND $_{0.00056}$	ND $_{0.00056}$	ND $_{0.00056}$
1,1-Dichloropropene	**563-58-6**	*mg/l*	*0.0010*	ND $_{0.00049}$	ND $_{0.00049}$	ND $_{0.00049}$	ND $_{0.00049}$	ND $_{0.00049}$
1,2,3-Trichlorobenzene	**87-61-6**	*mg/l*	*0.0010*	ND $_{0.00033}$	ND $_{0.00033}$	ND $_{0.00033}$	ND $_{0.00033}$	ND $_{0.00033}$
1,2,3-Trichloropropane	**96-18-4**	*mg/l*	*0.0010*	ND $_{0.00041}$	ND $_{0.00041}$	ND $_{0.00041}$	ND $_{0.00041}$	ND $_{0.00041}$
1,2,4-Trichlorobenzene	**120-82-1**	*mg/l*	*0.0010*	ND $_{0.00035}$	ND $_{0.00035}$	ND $_{0.00035}$	ND $_{0.00035}$	ND $_{0.00035}$
1,2-Dibromo-3-chloropropane	**96-12-8**	*mg/l*	*0.0020*	ND $_{0.0020}$	ND $_{0.0020}$	ND $_{0.0020}$	ND $_{0.0020}$	ND $_{0.0020}$
1,2-Dibromoethane (EDB)	**106-93-4**	*mg/l*	*0.0010*	ND $_{0.00027}$	ND $_{0.00027}$	ND $_{0.00027}$	ND $_{0.00027}$	ND $_{0.00027}$
1,2-Dichlorobenzene	**95-50-1**	*mg/l*	*0.0010*	ND $_{0.00030}$	ND $_{0.00030}$	ND $_{0.00030}$	ND $_{0.00030}$	ND $_{0.00030}$
1,2-Dichloroethane	**107-06-2**	*mg/l*	*0.0010*	ND $_{0.00024}$	ND $_{0.00024}$	ND $_{0.00024}$	ND $_{0.00024}$	ND $_{0.00024}$
1,2-Dichloropropane	**78-87-5**	*mg/l*	*0.0010*	ND $_{0.00027}$	ND $_{0.00027}$	ND $_{0.00027}$	ND $_{0.00027}$	ND $_{0.00027}$
1,3-Dichlorobenzene	**541-73-1**	*mg/l*	*0.0010*	ND $_{0.00024}$	ND $_{0.00024}$	ND $_{0.00024}$	ND $_{0.00024}$	ND $_{0.00024}$
1,3-Dichloropropane	**142-28-9**	*mg/l*	*0.0010*	ND $_{0.00028}$	ND $_{0.00028}$	ND $_{0.00028}$	ND $_{0.00028}$	ND $_{0.00028}$
1,4-Dichlorobenzene	**106-46-7**	*mg/l*	*0.0010*	ND $_{0.00033}$	ND $_{0.00033}$	ND $_{0.00033}$	ND $_{0.00033}$	ND $_{0.00033}$
2,2-Dichloropropane	**594-20-7**	*mg/l*	*0.0010*	ND $_{0.00013}$	ND $_{0.00013}$	ND $_{0.00013}$	ND $_{0.00013}$	ND $_{0.00013}$
2-Butanone (MEK)	**78-93-3**	*mg/l*	*0.0050*	ND $_{0.00096}$	ND $_{0.00096}$	ND $_{0.00096}$	ND $_{0.00096}$	ND $_{0.00096}$
2-Chlorotoluene	**95-49-8**	*mg/l*	*0.0010*	ND $_{0.00035}$	ND $_{0.00035}$	ND $_{0.00035}$	ND $_{0.00035}$	ND $_{0.00035}$
2-Hexanone	**591-78-6**	*mg/l*	*0.0050*	ND $_{0.00046}$	ND $_{0.00046}$	ND $_{0.00046}$	ND $_{0.00046}$	ND $_{0.00046}$
4-Chlorotoluene	**106-43-4**	*mg/l*	*0.0010*	ND $_{0.00031}$	ND $_{0.00031}$	ND $_{0.00031}$	ND $_{0.00031}$	ND $_{0.00031}$
4-Methyl-2-pentanone (MIBK)	**108-10-1**	*mg/l*	*0.0050*	ND $_{0.00033}$	ND $_{0.00033}$	ND $_{0.00033}$	ND $_{0.00033}$	ND $_{0.00033}$
Acetone	**67-64-1**	*mg/l*	*0.0250*	ND $_{0.0100}$	ND $_{0.0100}$	ND $_{0.0100}$	ND $_{0.0100}$	ND $_{0.0100}$
Benzene	**71-43-2**	*mg/l*	*0.0010*	ND $_{0.00025}$	ND $_{0.00025}$	ND $_{0.00025}$	ND $_{0.00025}$	ND $_{0.00025}$
Bromobenzene	**108-86-1**	*mg/l*	*0.0010*	ND $_{0.00030}$	ND $_{0.00030}$	ND $_{0.00030}$	ND $_{0.00030}$	ND $_{0.00030}$
Bromochloromethane	**74-97-5**	*mg/l*	*0.0010*	ND $_{0.00017}$	ND $_{0.00017}$	ND $_{0.00017}$	ND $_{0.00017}$	ND $_{0.00017}$
Bromodichloromethane	**75-27-4**	*mg/l*	*0.0010*	ND $_{0.00018}$	ND $_{0.00018}$	ND $_{0.00018}$	ND $_{0.00018}$	ND $_{0.00018}$
Bromoform	**75-25-2**	*mg/l*	*0.0010*	ND $_{0.00026}$	ND $_{0.00026}$	ND $_{0.00026}$	ND $_{0.00026}$	ND $_{0.00026}$
Bromomethane	**74-83-9**	*mg/l*	*0.0020*	ND $_{0.00029}$	ND $_{0.00029}$	ND $_{0.00029}$	ND $_{0.00029}$	ND $_{0.00029}$
Carbon tetrachloride	**56-23-5**	*mg/l*	*0.0010*	ND $_{0.00025}$	ND $_{0.00025}$	ND $_{0.00025}$	ND $_{0.00025}$	ND $_{0.00025}$
Chlorobenzene	**108-90-7**	*mg/l*	*0.0010*	ND $_{0.00023}$	ND $_{0.00023}$	ND $_{0.00023}$	ND $_{0.00023}$	ND $_{0.00023}$
Chloroethane	**75-00-3**	*mg/l*	*0.0010*	ND $_{0.00054}$	ND $_{0.00054}$	ND $_{0.00054}$	ND $_{0.00054}$	ND $_{0.00054}$
Chloroform	**67-66-3**	*mg/l*	*0.0010*	ND $_{0.00014}$	ND $_{0.00014}$	ND $_{0.00014}$	ND $_{0.00014}$	ND $_{0.00014}$
Chloromethane	**74-87-3**	*mg/l*	*0.0010*	ND $_{0.00011}$	ND $_{0.00011}$	ND $_{0.00011}$	ND $_{0.00011}$	ND $_{0.00011}$
cis-1,2-Dichloroethene	**156-59-2**	*mg/l*	*0.0010*	ND $_{0.00019}$	0.0010	ND $_{0.00019}$	ND $_{0.00019}$	ND $_{0.00019}$
cis-1,3-Dichloropropene	**10061-01-5**	*mg/l*	*0.0010*	ND $_{0.00013}$	ND $_{0.00013}$	ND $_{0.00013}$	ND $_{0.00013}$	ND $_{0.00013}$
Dibromochloromethane	**124-48-1**	*mg/l*	*0.0010*	ND $_{0.00021}$	ND $_{0.00021}$	ND $_{0.00021}$	ND $_{0.00021}$	ND $_{0.00021}$
Dibromomethane	**74-95-3**	*mg/l*	*0.0010*	ND $_{0.00021}$	ND $_{0.00021}$	ND $_{0.00021}$	ND $_{0.00021}$	ND $_{0.00021}$
Dichlorodifluoromethane	**75-71-8**	*mg/l*	*0.0010*	ND $_{0.00021}$	ND $_{0.00021}$	ND $_{0.00021}$	ND $_{0.00021}$	ND $_{0.00021}$
Diisopropyl ether	**108-20-3**	*mg/l*	*0.0010*	ND $_{0.00012}$	ND $_{0.00012}$	ND $_{0.00012}$	ND $_{0.00012}$	ND $_{0.00012}$
Ethylbenzene	**100-41-4**	*mg/l*	*0.0010*	ND $_{0.00030}$	ND $_{0.00030}$	ND $_{0.00030}$	ND $_{0.00030}$	ND $_{0.00030}$
Hexachloro-1,3-butadiene	**87-68-3**	*mg/l*	*0.0010*	ND $_{0.00071}$	ND $_{0.00071}$	ND $_{0.00071}$	ND $_{0.00071}$	ND $_{0.00071}$
m&p-Xylene	**179601-23-1**	*mg/l*	*0.0020*	ND $_{0.00066}$	ND $_{0.00066}$	ND $_{0.00066}$	ND $_{0.00066}$	ND $_{0.00066}$
Methylene Chloride	**75-09-2**	*mg/l*	*0.0020*	ND $_{0.00097}$	ND $_{0.00097}$	ND $_{0.00097}$	ND $_{0.00097}$	ND $_{0.00097}$
Methyl-tert-butyl ether	**1634-04-4**	*mg/l*	*0.0010*	ND $_{0.00021}$	ND $_{0.00021}$	ND $_{0.00021}$	ND $_{0.00021}$	ND $_{0.00021}$
Naphthalene	**91-20-3**	*mg/l*	*0.0010*	ND $_{0.00024}$	ND $_{0.00024}$	ND $_{0.00024}$	ND $_{0.00024}$	ND $_{0.00024}$
o-Xylene	**95-47-6**	*mg/l*	*0.0010*	ND $_{0.00023}$	ND $_{0.00023}$	ND $_{0.00023}$	ND $_{0.00023}$	ND $_{0.00023}$
p-Isopropyltoluene	**99-87-6**	*mg/l*	*0.0010*	ND $_{0.00031}$	ND $_{0.00031}$	ND $_{0.00031}$	ND $_{0.00031}$	ND $_{0.00031}$
Styrene	**100-42-5**	*mg/l*	*0.0010*	ND $_{0.00026}$	ND $_{0.00026}$	ND $_{0.00026}$	ND $_{0.00026}$	ND $_{0.00026}$
Tetrachloroethene	**127-18-4**	*mg/l*	*0.0010*	ND $_{0.00046}$	ND $_{0.00046}$	ND $_{0.00046}$	ND $_{0.00046}$	ND $_{0.00046}$
Toluene	**108-88-3**	*mg/l*	*0.0010*	ND $_{0.00026}$	ND $_{0.00026}$	ND $_{0.00026}$	ND $_{0.00026}$	ND $_{0.00026}$
trans-1,2-Dichloroethene	**156-60-5**	*mg/l*	*0.0010*	ND $_{0.00049}$	ND $_{0.00049}$	ND $_{0.00049}$	ND $_{0.00049}$	ND $_{0.00049}$
trans-1,3-Dichloropropene	**10061-02-6**	*mg/l*	*0.0010*	ND $_{0.00026}$	ND $_{0.00026}$	ND $_{0.00026}$	ND $_{0.00026}$	ND $_{0.00026}$
Trichloroethene	**79-01-6**	*mg/l*	*0.0010*	0.0085	0.0661	0.0086	0.0065	0.0071
Trichlorofluoromethane	**75-69-4**	*mg/l*	*0.0010*	ND $_{0.00020}$	ND $_{0.00020}$	ND $_{0.00020}$	ND $_{0.00020}$	ND $_{0.00020}$
Vinyl acetate	**108-05-4**	*mg/l*	*0.0020*	ND $_{0.00035}$	ND $_{0.00035}$	ND $_{0.00035}$	ND $_{0.00035}$	ND $_{0.00035}$
Vinyl chloride	**75-01-4**	*mg/l*	*0.0010*	ND $_{0.00062}$	ND $_{0.00062}$	ND $_{0.00062}$	ND $_{0.00062}$	ND $_{0.00062}$
Xylene (Total)	**1330-20-7**	*mg/l*	*0.0010*	ND $_{0.0010}$	ND $_{0.0010}$	ND $_{0.0010}$	ND $_{0.0010}$	ND $_{0.0010}$

Notes:

ND - The analyte was not detected above laboratory detection limits. Subscript indicates compound-specific MDL in mg/l.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
NA - Not analyzed.

Table 2-3
Field Blank Analytical Results from July 2018 Sampling Event
Badin Business Park Facility
Badin, North Carolina

Sample ID	CAS	Units	RL	TRIP BLANK	EQUIPMENT BLANK
Lab ID				9231523007	92391523006
Location				**TB-001**	**EB-001**
Date				7/9/2018	7/10/2018
Time					9:15
1,1,1,2-Tetrachloroethane	**630-20-6**	*mg/l*	*0.0010*	ND $_{0.00033}$	ND $_{0.00033}$
1,1,1-Trichloroethane	**71-55-6**	*mg/l*	*0.0010*	ND $_{0.00048}$	ND $_{0.00048}$
1,1,2,2-Tetrachloroethane	**79-34-5**	*mg/l*	*0.0010*	ND $_{0.00040}$	ND $_{0.00040}$
1,1,2-Trichloroethane	**79-00-5**	*mg/l*	*0.0010*	ND $_{0.00029}$	ND $_{0.00029}$
1,1-Dichloroethane	**75-34-3**	*mg/l*	*0.0010*	ND $_{0.00032}$	ND $_{0.00032}$
1,1-Dichloroethene	**75-35-4**	*mg/l*	*0.0010*	ND $_{0.00056}$	ND $_{0.00056}$
1,1-Dichloropropene	**563-58-6**	*mg/l*	*0.0010*	ND $_{0.00049}$	ND $_{0.00049}$
1,2,3-Trichlorobenzene	**87-61-6**	*mg/l*	*0.0010*	ND $_{0.00033}$	ND $_{0.00033}$
1,2,3-Trichloropropane	**96-18-4**	*mg/l*	*0.0010*	ND $_{0.00041}$	ND $_{0.00041}$
1,2,4-Trichlorobenzene	**120-82-1**	*mg/l*	*0.0010*	ND $_{0.00035}$	ND $_{0.00035}$
1,2-Dibromo-3-chloropropane	**96-12-8**	*mg/l*	*0.0020*	ND $_{0.0020}$	ND $_{0.0020}$
1,2-Dibromoethane (EDB)	**106-93-4**	*mg/l*	*0.0010*	ND $_{0.00027}$	ND $_{0.00027}$
1,2-Dichlorobenzene	**95-50-1**	*mg/l*	*0.0010*	ND $_{0.00030}$	ND $_{0.00030}$
1,2-Dichloroethane	**107-06-2**	*mg/l*	*0.0010*	ND $_{0.00024}$	ND $_{0.00024}$
1,2-Dichloropropane	**78-87-5**	*mg/l*	*0.0010*	ND $_{0.00027}$	ND $_{0.00027}$
1,3-Dichlorobenzene	**541-73-1**	*mg/l*	*0.0010*	ND $_{0.00024}$	ND $_{0.00024}$
1,3-Dichloropropane	**142-28-9**	*mg/l*	*0.0010*	ND $_{0.00028}$	ND $_{0.00028}$
1,4-Dichlorobenzene	**106-46-7**	*mg/l*	*0.0010*	ND $_{0.00033}$	ND $_{0.00033}$
2,2-Dichloropropane	**594-20-7**	*mg/l*	*0.0010*	ND $_{0.00013}$	ND $_{0.00013}$
2-Butanone (MEK)	**78-93-3**	*mg/l*	*0.0050*	ND $_{0.00096}$	ND $_{0.00096}$
2-Chlorotoluene	**95-49-8**	*mg/l*	*0.0010*	ND $_{0.00035}$	ND $_{0.00035}$
2-Hexanone	**591-78-6**	*mg/l*	*0.0050*	ND $_{0.00046}$	ND $_{0.00046}$
4-Chlorotoluene	**106-43-4**	*mg/l*	*0.0010*	ND $_{0.00031}$	ND $_{0.00031}$
4-Methyl-2-pentanone (MIBK)	**108-10-1**	*mg/l*	*0.0050*	ND $_{0.00033}$	ND $_{0.00033}$
Acetone	**67-64-1**	*mg/l*	*0.0250*	ND $_{0.0100}$	ND $_{0.0100}$
Benzene	**71-43-2**	*mg/l*	*0.0010*	ND $_{0.00025}$	ND $_{0.00025}$
Bromobenzene	**108-86-1**	*mg/l*	*0.0010*	ND $_{0.00030}$	ND $_{0.00030}$
Bromochloromethane	**74-97-5**	*mg/l*	*0.0010*	ND $_{0.00017}$	ND $_{0.00017}$
Bromodichloromethane	**75-27-4**	*mg/l*	*0.0010*	ND $_{0.00018}$	ND $_{0.00018}$
Bromoform	**75-25-2**	*mg/l*	*0.0010*	ND $_{0.00026}$	ND $_{0.00026}$
Bromomethane	**74-83-9**	*mg/l*	*0.0020*	ND $_{0.00029}$	ND $_{0.00029}$
Carbon tetrachloride	**56-23-5**	*mg/l*	*0.0010*	ND $_{0.00025}$	ND $_{0.00025}$
Chlorobenzene	**108-90-7**	*mg/l*	*0.0010*	ND $_{0.00023}$	ND $_{0.00023}$
Chloroethane	**75-00-3**	*mg/l*	*0.0010*	ND $_{0.00054}$	ND $_{0.00054}$
Chloroform	**67-66-3**	*mg/l*	*0.0010*	ND $_{0.00014}$	ND $_{0.00014}$
Chloromethane	**74-87-3**	*mg/l*	*0.0010*	ND $_{0.00011}$	0.00028 J
cis-1,2-Dichloroethene	**156-59-2**	*mg/l*	*0.0010*	ND $_{0.00019}$	ND $_{0.00019}$
cis-1,3-Dichloropropene	**10061-01-5**	*mg/l*	*0.0010*	ND $_{0.00013}$	ND $_{0.00013}$
Dibromochloromethane	**124-48-1**	*mg/l*	*0.0010*	ND $_{0.00021}$	ND $_{0.00021}$
Dibromomethane	**74-95-3**	*mg/l*	*0.0010*	ND $_{0.00021}$	ND $_{0.00021}$
Dichlorodifluoromethane	**75-71-8**	*mg/l*	*0.0010*	ND $_{0.00021}$	ND $_{0.00021}$
Diisopropyl ether	**108-20-3**	*mg/l*	*0.0010*	ND $_{0.00012}$	ND $_{0.00012}$
Ethylbenzene	**100-41-4**	*mg/l*	*0.0010*	ND $_{0.00030}$	ND $_{0.00030}$
Hexachloro-1,3-butadiene	**87-68-3**	*mg/l*	*0.0010*	ND $_{0.00071}$	ND $_{0.00071}$
m&p-Xylene	**179601-23-1**	*mg/l*	*0.0020*	ND $_{0.00066}$	ND $_{0.00066}$
Methylene Chloride	**75-09-2**	*mg/l*	*0.0020*	ND $_{0.00097}$	ND $_{0.00097}$
Methyl-tert-butyl ether	**1634-04-4**	*mg/l*	*0.0010*	ND $_{0.00021}$	ND $_{0.00021}$
Naphthalene	**91-20-3**	*mg/l*	*0.0010*	ND $_{0.00024}$	ND $_{0.00024}$
o-Xylene	**95-47-6**	*mg/l*	*0.0010*	ND $_{0.00023}$	ND $_{0.00023}$
p-Isopropyltoluene	**99-87-6**	*mg/l*	*0.0010*	ND $_{0.00031}$	ND $_{0.00031}$
Styrene	**100-42-5**	*mg/l*	*0.0010*	ND $_{0.00026}$	ND $_{0.00026}$
Tetrachloroethene	**127-18-4**	*mg/l*	*0.0010*	ND $_{0.00046}$	ND $_{0.00046}$
Toluene	**108-88-3**	*mg/l*	*0.0010*	ND $_{0.00026}$	ND $_{0.00026}$
trans-1,2-Dichloroethene	**156-60-5**	*mg/l*	*0.0010*	ND $_{0.00049}$	ND $_{0.00049}$
trans-1,3-Dichloropropene	**10061-02-6**	*mg/l*	*0.0010*	ND $_{0.00026}$	ND $_{0.00026}$
Trichloroethene	**79-01-6**	*mg/l*	*0.0010*	ND $_{0.00047}$	ND $_{0.00047}$
Trichlorofluoromethane	**75-69-4**	*mg/l*	*0.0010*	ND $_{0.00020}$	ND $_{0.00020}$
Vinyl acetate	**108-05-4**	*mg/l*	*0.0020*	ND $_{0.00035}$	ND $_{0.00035}$
Vinyl chloride	**75-01-4**	*mg/l*	*0.0010*	ND $_{0.00062}$	ND $_{0.00062}$
Xylene (Total)	**1330-20-7**	*mg/l*	*0.0010*	ND $_{0.0010}$	ND $_{0.0010}$

Notes:

ND - The analyte was not detected above laboratory detection limits.
Subscript indicates compound-specific MDL in mg/l.
J - Estimated concentration above the adjusted method detection limit below the adjusted reporting limit.

3.0 CONCLUSIONS

To address the objective of determining if TCE is present in monitoring well (MW-110) and to update the TCE groundwater concentration data at the Main Plant area, groundwater samples were collected from four monitoring wells (MW-4, MW-9, MW-16, and MW 110). The groundwater samples were analyzed for volatile organic compounds (VOCs) including TCE.

Results of Site activities indicated that since the completion of the CMS, concentrations of TCE in in all recently sampled wells decreased, thus indicating that the constituent plume does not appear to be expanding. One monitoring well, MW-110, was installed after completion of the CMS, and contained a concentration of TCE slightly above the 15A NCAC 2L groundwater standard.

Results from this groundwater sampling event will be incorporated into a revision to the Corrective Measures Study. The revised Corrective Measures Study will reference the current risk-based remediation standards under NCGS 130A, Article 9, Part 8 and guidance included on the Division of Waste Management website. Should the use of risk-based remediation continue to be recommended as a corrective action alternative, Section 6.3 will be revised to allow for developing site-specific remediation standards to achieve compliance without undue risk to human health and to the environment based upon the present or currently planned future use of the property.

APPENDIX A

LABORATORY ANALYTICAL DATA PACKAGE AND CHAIN OF CUSTODY DOCUMENTATION

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 16, 2018

Michael W. Worden
Environeering, Inc.
16100 Cairnway
Suite 320
Houston, TX 77084

RE: Project: Badin Business Park MWs
Pace Project No.: 92391523

Dear Michael Worden:

Enclosed are the analytical results for sample(s) received by the laboratory on July 11, 2018. 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,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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CERTIFICATIONS

Project:	Badin Business Park MWs
Pace Project No.:	92391523

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: Badin Business Park MWs
Pace Project No.: 92391523

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92391523001	**ABP-MW004-F005**	Water	07/09/18 18:25	07/11/18 16:35
92391523002	**ABP-MW009-F005**	Water	07/09/18 12:55	07/11/18 16:35
92391523003	**ABP-MW016-F005**	Water	07/09/18 11:30	07/11/18 16:35
92391523004	**ABP-MW110-F005**	Water	07/10/18 08:45	07/11/18 16:35
92391523005	**ABP-MW110-D005**	Water	07/10/18 08:50	07/11/18 16:35
92391523006	**ABP-EB001-F005**	Water	07/10/18 09:15	07/11/18 16:35
92391523007	**ABP-TB001-F005**	Water	07/09/18 00:00	07/11/18 16:35

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SAMPLE ANALYTE COUNT

Project: Badin Business Park MWs
Pace Project No.: 92391523

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92391523001	**ABP-MW004-F005**	EPA 8260B	GAW	63	PASI-C
92391523002	**ABP-MW009-F005**	EPA 8260B	GAW	63	PASI-C
92391523003	**ABP-MW016-F005**	EPA 8260B	GAW	63	PASI-C
92391523004	**ABP-MW110-F005**	EPA 8260B	GAW	63	PASI-C
92391523005	**ABP-MW110-D005**	EPA 8260B	GAW	63	PASI-C
92391523006	**ABP-EB001-F005**	EPA 8260B	GAW	63	PASI-C
92391523007	**ABP-TB001-F005**	EPA 8260B	GAW	63	PASI-C

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-MW004-F005 **Lab ID: 92391523001** Collected: 07/09/18 18:25 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	10.0	1		07/12/18 18:51	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		07/12/18 18:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		07/12/18 18:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		07/12/18 18:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		07/12/18 18:51	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		07/12/18 18:51	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		07/12/18 18:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		07/12/18 18:51	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		07/12/18 18:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/12/18 18:51	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		07/12/18 18:51	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/12/18 18:51	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		07/12/18 18:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		07/12/18 18:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		07/12/18 18:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		07/12/18 18:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/12/18 18:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		07/12/18 18:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		07/12/18 18:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		07/12/18 18:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		07/12/18 18:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 18:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/12/18 18:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		07/12/18 18:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		07/12/18 18:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		07/12/18 18:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		07/12/18 18:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		07/12/18 18:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/12/18 18:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		07/12/18 18:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		07/12/18 18:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		07/12/18 18:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		07/12/18 18:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/12/18 18:51	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/12/18 18:51	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		07/12/18 18:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		07/12/18 18:51	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		07/12/18 18:51	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		07/12/18 18:51	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		07/12/18 18:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		07/12/18 18:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		07/12/18 18:51	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		07/12/18 18:51	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		07/12/18 18:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		07/12/18 18:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		07/12/18 18:51	79-34-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-MW004-F005 **Lab ID: 92391523001** Collected: 07/09/18 18:25 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		07/12/18 18:51	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		07/12/18 18:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 18:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		07/12/18 18:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		07/12/18 18:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		07/12/18 18:51	79-00-5	
Trichloroethene	**8.5**	ug/L	1.0	0.47	1		07/12/18 18:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		07/12/18 18:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		07/12/18 18:51	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		07/12/18 18:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		07/12/18 18:51	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		07/12/18 18:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		07/12/18 18:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		07/12/18 18:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		07/12/18 18:51	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		07/12/18 18:51	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		07/12/18 18:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-MW009-F005 **Lab ID: 92391523002** Collected: 07/09/18 12:55 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	10.0	1		07/12/18 19:07	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		07/12/18 19:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		07/12/18 19:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		07/12/18 19:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		07/12/18 19:07	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		07/12/18 19:07	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		07/12/18 19:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		07/12/18 19:07	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		07/12/18 19:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/12/18 19:07	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		07/12/18 19:07	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/12/18 19:07	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		07/12/18 19:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		07/12/18 19:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		07/12/18 19:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		07/12/18 19:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/12/18 19:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		07/12/18 19:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		07/12/18 19:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		07/12/18 19:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		07/12/18 19:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 19:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/12/18 19:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		07/12/18 19:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		07/12/18 19:07	107-06-2	
1,1-Dichloroethene	**1.2**	ug/L	1.0	0.56	1		07/12/18 19:07	75-35-4	
cis-1,2-Dichloroethene	**1.0**	ug/L	1.0	0.19	1		07/12/18 19:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		07/12/18 19:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/12/18 19:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		07/12/18 19:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		07/12/18 19:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		07/12/18 19:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		07/12/18 19:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/12/18 19:07	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/12/18 19:07	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		07/12/18 19:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		07/12/18 19:07	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		07/12/18 19:07	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		07/12/18 19:07	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		07/12/18 19:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		07/12/18 19:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		07/12/18 19:07	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		07/12/18 19:07	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		07/12/18 19:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		07/12/18 19:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		07/12/18 19:07	79-34-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-MW009-F005 **Lab ID: 92391523002** Collected: 07/09/18 12:55 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		07/12/18 19:07	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		07/12/18 19:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 19:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		07/12/18 19:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		07/12/18 19:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		07/12/18 19:07	79-00-5	
Trichloroethene	**66.1**	ug/L	1.0	0.47	1		07/12/18 19:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		07/12/18 19:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		07/12/18 19:07	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		07/12/18 19:07	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		07/12/18 19:07	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		07/12/18 19:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		07/12/18 19:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		07/12/18 19:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		07/12/18 19:07	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		07/12/18 19:07	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		07/12/18 19:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-MW016-F005 **Lab ID: 92391523003** Collected: 07/09/18 11:30 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	10.0	1		07/12/18 19:24	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		07/12/18 19:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		07/12/18 19:24	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		07/12/18 19:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		07/12/18 19:24	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		07/12/18 19:24	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		07/12/18 19:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		07/12/18 19:24	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		07/12/18 19:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/12/18 19:24	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		07/12/18 19:24	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/12/18 19:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		07/12/18 19:24	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		07/12/18 19:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		07/12/18 19:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		07/12/18 19:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/12/18 19:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		07/12/18 19:24	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		07/12/18 19:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		07/12/18 19:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		07/12/18 19:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 19:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/12/18 19:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		07/12/18 19:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		07/12/18 19:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		07/12/18 19:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		07/12/18 19:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		07/12/18 19:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/12/18 19:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		07/12/18 19:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		07/12/18 19:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		07/12/18 19:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		07/12/18 19:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/12/18 19:24	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/12/18 19:24	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		07/12/18 19:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		07/12/18 19:24	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		07/12/18 19:24	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		07/12/18 19:24	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		07/12/18 19:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		07/12/18 19:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		07/12/18 19:24	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		07/12/18 19:24	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		07/12/18 19:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		07/12/18 19:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		07/12/18 19:24	79-34-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-MW016-F005 **Lab ID: 92391523003** Collected: 07/09/18 11:30 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		07/12/18 19:24	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		07/12/18 19:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 19:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		07/12/18 19:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		07/12/18 19:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		07/12/18 19:24	79-00-5	
Trichloroethene	**8.6**	ug/L	1.0	0.47	1		07/12/18 19:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		07/12/18 19:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		07/12/18 19:24	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		07/12/18 19:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		07/12/18 19:24	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		07/12/18 19:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		07/12/18 19:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		07/12/18 19:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		07/12/18 19:24	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		07/12/18 19:24	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		07/12/18 19:24	2037-26-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-MW110-F005 **Lab ID: 92391523004** Collected: 07/10/18 08:45 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	10.0	1		07/12/18 19:41	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		07/12/18 19:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		07/12/18 19:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		07/12/18 19:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		07/12/18 19:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		07/12/18 19:41	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		07/12/18 19:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		07/12/18 19:41	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		07/12/18 19:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/12/18 19:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		07/12/18 19:41	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/12/18 19:41	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		07/12/18 19:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		07/12/18 19:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		07/12/18 19:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		07/12/18 19:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/12/18 19:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		07/12/18 19:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		07/12/18 19:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		07/12/18 19:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		07/12/18 19:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 19:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/12/18 19:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		07/12/18 19:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		07/12/18 19:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		07/12/18 19:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		07/12/18 19:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		07/12/18 19:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/12/18 19:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		07/12/18 19:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		07/12/18 19:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		07/12/18 19:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		07/12/18 19:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/12/18 19:41	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/12/18 19:41	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		07/12/18 19:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		07/12/18 19:41	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		07/12/18 19:41	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		07/12/18 19:41	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		07/12/18 19:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		07/12/18 19:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		07/12/18 19:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		07/12/18 19:41	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		07/12/18 19:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		07/12/18 19:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		07/12/18 19:41	79-34-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-MW110-F005 **Lab ID: 92391523004** Collected: 07/10/18 08:45 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		07/12/18 19:41	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		07/12/18 19:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 19:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		07/12/18 19:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		07/12/18 19:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		07/12/18 19:41	79-00-5	
Trichloroethene	**6.5**	ug/L	1.0	0.47	1		07/12/18 19:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		07/12/18 19:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		07/12/18 19:41	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		07/12/18 19:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		07/12/18 19:41	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		07/12/18 19:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		07/12/18 19:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		07/12/18 19:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		07/12/18 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		07/12/18 19:41	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		07/12/18 19:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-MW110-D005 **Lab ID: 92391523005** Collected: 07/10/18 08:50 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	10.0	1		07/12/18 19:58	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		07/12/18 19:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		07/12/18 19:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		07/12/18 19:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		07/12/18 19:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		07/12/18 19:58	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		07/12/18 19:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		07/12/18 19:58	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		07/12/18 19:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/12/18 19:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		07/12/18 19:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/12/18 19:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		07/12/18 19:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		07/12/18 19:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		07/12/18 19:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		07/12/18 19:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/12/18 19:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		07/12/18 19:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		07/12/18 19:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		07/12/18 19:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		07/12/18 19:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 19:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/12/18 19:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		07/12/18 19:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		07/12/18 19:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		07/12/18 19:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		07/12/18 19:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		07/12/18 19:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/12/18 19:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		07/12/18 19:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		07/12/18 19:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		07/12/18 19:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		07/12/18 19:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/12/18 19:58	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/12/18 19:58	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		07/12/18 19:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		07/12/18 19:58	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		07/12/18 19:58	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		07/12/18 19:58	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		07/12/18 19:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		07/12/18 19:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		07/12/18 19:58	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		07/12/18 19:58	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		07/12/18 19:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		07/12/18 19:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		07/12/18 19:58	79-34-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-MW110-D005 **Lab ID: 92391523005** Collected: 07/10/18 08:50 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		07/12/18 19:58	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		07/12/18 19:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 19:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		07/12/18 19:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		07/12/18 19:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		07/12/18 19:58	79-00-5	
Trichloroethene	**7.1**	ug/L	1.0	0.47	1		07/12/18 19:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		07/12/18 19:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		07/12/18 19:58	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		07/12/18 19:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		07/12/18 19:58	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		07/12/18 19:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		07/12/18 19:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		07/12/18 19:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		07/12/18 19:58	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		07/12/18 19:58	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		07/12/18 19:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-EB001-F005 **Lab ID: 92391523006** Collected: 07/10/18 09:15 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	10.0	1		07/12/18 15:30	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		07/12/18 15:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		07/12/18 15:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		07/12/18 15:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		07/12/18 15:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		07/12/18 15:30	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		07/12/18 15:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		07/12/18 15:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		07/12/18 15:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/12/18 15:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		07/12/18 15:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/12/18 15:30	67-66-3	
Chloromethane	**0.28J**	ug/L	1.0	0.11	1		07/12/18 15:30	74-87-3	B
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		07/12/18 15:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		07/12/18 15:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		07/12/18 15:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/12/18 15:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		07/12/18 15:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		07/12/18 15:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		07/12/18 15:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		07/12/18 15:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 15:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/12/18 15:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		07/12/18 15:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		07/12/18 15:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		07/12/18 15:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		07/12/18 15:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		07/12/18 15:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/12/18 15:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		07/12/18 15:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		07/12/18 15:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		07/12/18 15:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		07/12/18 15:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/12/18 15:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/12/18 15:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		07/12/18 15:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		07/12/18 15:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		07/12/18 15:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		07/12/18 15:30	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		07/12/18 15:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		07/12/18 15:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		07/12/18 15:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		07/12/18 15:30	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		07/12/18 15:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		07/12/18 15:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		07/12/18 15:30	79-34-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-EB001-F005 **Lab ID: 92391523006** Collected: 07/10/18 09:15 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		07/12/18 15:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		07/12/18 15:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 15:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		07/12/18 15:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		07/12/18 15:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		07/12/18 15:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		07/12/18 15:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		07/12/18 15:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		07/12/18 15:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		07/12/18 15:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		07/12/18 15:30	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		07/12/18 15:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		07/12/18 15:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		07/12/18 15:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		07/12/18 15:30	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/12/18 15:30	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		07/12/18 15:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-TB001-F005 **Lab ID: 92391523007** Collected: 07/09/18 00:00 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	10.0	1		07/12/18 15:46	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		07/12/18 15:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		07/12/18 15:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		07/12/18 15:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		07/12/18 15:46	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		07/12/18 15:46	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		07/12/18 15:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		07/12/18 15:46	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		07/12/18 15:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/12/18 15:46	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		07/12/18 15:46	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/12/18 15:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		07/12/18 15:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		07/12/18 15:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		07/12/18 15:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		07/12/18 15:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/12/18 15:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		07/12/18 15:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		07/12/18 15:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		07/12/18 15:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		07/12/18 15:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 15:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/12/18 15:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		07/12/18 15:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		07/12/18 15:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		07/12/18 15:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		07/12/18 15:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		07/12/18 15:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/12/18 15:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		07/12/18 15:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		07/12/18 15:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		07/12/18 15:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		07/12/18 15:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/12/18 15:46	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/12/18 15:46	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		07/12/18 15:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		07/12/18 15:46	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		07/12/18 15:46	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		07/12/18 15:46	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		07/12/18 15:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		07/12/18 15:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		07/12/18 15:46	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		07/12/18 15:46	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		07/12/18 15:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		07/12/18 15:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		07/12/18 15:46	79-34-5	

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ANALYTICAL RESULTS

Project: Badin Business Park MWs
Pace Project No.: 92391523

Sample: ABP-TB001-F005 **Lab ID: 92391523007** Collected: 07/09/18 00:00 Received: 07/11/18 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260B								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		07/12/18 15:46	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		07/12/18 15:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		07/12/18 15:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		07/12/18 15:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		07/12/18 15:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		07/12/18 15:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		07/12/18 15:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		07/12/18 15:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		07/12/18 15:46	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		07/12/18 15:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		07/12/18 15:46	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1.0	1		07/12/18 15:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		07/12/18 15:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		07/12/18 15:46	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		07/12/18 15:46	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		07/12/18 15:46	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		07/12/18 15:46	2037-26-5	

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QUALITY CONTROL DATA

Project: Badin Business Park MWs
Pace Project No.: 92391523

QC Batch: 418810 | Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92391523001, 92391523002, 92391523003, 92391523004, 92391523005, 92391523006, 92391523007

METHOD BLANK: 2321548 | Matrix: Water
Associated Lab Samples: 92391523001, 92391523002, 92391523003, 92391523004, 92391523005, 92391523006, 92391523007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.33	07/12/18 14:06	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.48	07/12/18 14:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.40	07/12/18 14:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.29	07/12/18 14:06	
1,1-Dichloroethane	ug/L	ND	1.0	0.32	07/12/18 14:06	
1,1-Dichloroethene	ug/L	ND	1.0	0.56	07/12/18 14:06	
1,1-Dichloropropene	ug/L	ND	1.0	0.49	07/12/18 14:06	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.33	07/12/18 14:06	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.41	07/12/18 14:06	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.35	07/12/18 14:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	2.0	07/12/18 14:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.27	07/12/18 14:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.30	07/12/18 14:06	
1,2-Dichloroethane	ug/L	ND	1.0	0.24	07/12/18 14:06	
1,2-Dichloropropane	ug/L	ND	1.0	0.27	07/12/18 14:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.24	07/12/18 14:06	
1,3-Dichloropropane	ug/L	ND	1.0	0.28	07/12/18 14:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.33	07/12/18 14:06	
2,2-Dichloropropane	ug/L	ND	1.0	0.13	07/12/18 14:06	
2-Butanone (MEK)	ug/L	ND	5.0	0.96	07/12/18 14:06	
2-Chlorotoluene	ug/L	ND	1.0	0.35	07/12/18 14:06	
2-Hexanone	ug/L	ND	5.0	0.46	07/12/18 14:06	
4-Chlorotoluene	ug/L	ND	1.0	0.31	07/12/18 14:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	0.33	07/12/18 14:06	
Acetone	ug/L	ND	25.0	10.0	07/12/18 14:06	
Benzene	ug/L	ND	1.0	0.25	07/12/18 14:06	
Bromobenzene	ug/L	ND	1.0	0.30	07/12/18 14:06	
Bromochloromethane	ug/L	ND	1.0	0.17	07/12/18 14:06	
Bromodichloromethane	ug/L	ND	1.0	0.18	07/12/18 14:06	
Bromoform	ug/L	ND	1.0	0.26	07/12/18 14:06	
Bromomethane	ug/L	ND	2.0	0.29	07/12/18 14:06	
Carbon tetrachloride	ug/L	ND	1.0	0.25	07/12/18 14:06	
Chlorobenzene	ug/L	ND	1.0	0.23	07/12/18 14:06	
Chloroethane	ug/L	ND	1.0	0.54	07/12/18 14:06	
Chloroform	ug/L	ND	1.0	0.14	07/12/18 14:06	
Chloromethane	ug/L	0.27J	1.0	0.11	07/12/18 14:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.19	07/12/18 14:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.13	07/12/18 14:06	
Dibromochloromethane	ug/L	ND	1.0	0.21	07/12/18 14:06	
Dibromomethane	ug/L	ND	1.0	0.21	07/12/18 14:06	
Dichlorodifluoromethane	ug/L	ND	1.0	0.21	07/12/18 14:06	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Badin Business Park MWs
Pace Project No.: 92391523

METHOD BLANK: 2321548 Matrix: Water
Associated Lab Samples: 92391523001, 92391523002, 92391523003, 92391523004, 92391523005, 92391523006, 92391523007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.12	07/12/18 14:06	
Ethylbenzene	ug/L	ND	1.0	0.30	07/12/18 14:06	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.71	07/12/18 14:06	
m&p-Xylene	ug/L	ND	2.0	0.66	07/12/18 14:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	07/12/18 14:06	
Methylene Chloride	ug/L	ND	2.0	0.97	07/12/18 14:06	
Naphthalene	ug/L	ND	1.0	0.24	07/12/18 14:06	
o-Xylene	ug/L	ND	1.0	0.23	07/12/18 14:06	
p-Isopropyltoluene	ug/L	ND	1.0	0.31	07/12/18 14:06	
Styrene	ug/L	ND	1.0	0.26	07/12/18 14:06	
Tetrachloroethene	ug/L	ND	1.0	0.46	07/12/18 14:06	
Toluene	ug/L	ND	1.0	0.26	07/12/18 14:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.49	07/12/18 14:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.26	07/12/18 14:06	
Trichloroethene	ug/L	ND	1.0	0.47	07/12/18 14:06	
Trichlorofluoromethane	ug/L	ND	1.0	0.20	07/12/18 14:06	
Vinyl acetate	ug/L	ND	2.0	0.35	07/12/18 14:06	
Vinyl chloride	ug/L	ND	1.0	0.62	07/12/18 14:06	
Xylene (Total)	ug/L	ND	1.0	1.0	07/12/18 14:06	
1,2-Dichloroethane-d4 (S)	%	92	70-130		07/12/18 14:06	
4-Bromofluorobenzene (S)	%	100	70-130		07/12/18 14:06	
Toluene-d8 (S)	%	105	70-130		07/12/18 14:06	

LABORATORY CONTROL SAMPLE: 2321549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.1	96	80-125	
1,1,1-Trichloroethane	ug/L	50	48.7	97	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	48.7	97	79-124	
1,1,2-Trichloroethane	ug/L	50	48.5	97	85-125	
1,1-Dichloroethane	ug/L	50	46.8	94	73-126	
1,1-Dichloroethene	ug/L	50	52.9	106	66-135	
1,1-Dichloropropene	ug/L	50	52.7	105	74-135	
1,2,3-Trichlorobenzene	ug/L	50	46.8	94	73-135	
1,2,3-Trichloropropane	ug/L	50	47.6	95	75-130	
1,2,4-Trichlorobenzene	ug/L	50	47.8	96	75-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.6	97	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	50.5	101	83-124	
1,2-Dichlorobenzene	ug/L	50	47.8	96	80-133	
1,2-Dichloroethane	ug/L	50	45.0	90	67-128	
1,2-Dichloropropane	ug/L	50	51.2	102	75-132	
1,3-Dichlorobenzene	ug/L	50	49.3	99	77-130	
1,3-Dichloropropane	ug/L	50	52.7	105	76-131	
1,4-Dichlorobenzene	ug/L	50	47.1	94	78-130	

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QUALITY CONTROL DATA

Project: Badin Business Park MWs
Pace Project No.: 92391523

LABORATORY CONTROL SAMPLE: 2321549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	49.0	98	40-160	
2-Butanone (MEK)	ug/L	100	104	104	61-144	
2-Chlorotoluene	ug/L	50	47.9	96	74-132	
2-Hexanone	ug/L	100	95.8	96	68-143	
4-Chlorotoluene	ug/L	50	48.3	97	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.6	93	72-135	
Acetone	ug/L	100	102	102	48-146	
Benzene	ug/L	50	50.9	102	80-125	
Bromobenzene	ug/L	50	48.9	98	75-125	
Bromochloromethane	ug/L	50	51.5	103	71-125	
Bromodichloromethane	ug/L	50	47.6	95	78-124	
Bromoform	ug/L	50	49.5	99	71-128	
Bromomethane	ug/L	50	33.6	67	40-160	
Carbon tetrachloride	ug/L	50	47.0	94	69-131	
Chlorobenzene	ug/L	50	47.2	94	81-122	
Chloroethane	ug/L	50	45.0	90	39-148	
Chloroform	ug/L	50	52.6	105	73-127	
Chloromethane	ug/L	50	29.0	58	44-146	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	74-124	
cis-1,3-Dichloropropene	ug/L	50	52.0	104	72-132	
Dibromochloromethane	ug/L	50	50.9	102	78-125	
Dibromomethane	ug/L	50	46.6	93	82-120	
Dichlorodifluoromethane	ug/L	50	42.1	84	34-157	
Diisopropyl ether	ug/L	50	54.0	108	69-135	
Ethylbenzene	ug/L	50	48.0	96	79-121	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	72-131	
m&p-Xylene	ug/L	100	97.2	97	81-124	
Methyl-tert-butyl ether	ug/L	50	50.3	101	74-131	
Methylene Chloride	ug/L	50	53.3	107	64-133	
Naphthalene	ug/L	50	50.5	101	73-133	
o-Xylene	ug/L	50	49.2	98	79-131	
p-Isopropyltoluene	ug/L	50	50.4	101	80-131	
Styrene	ug/L	50	48.9	98	84-126	
Tetrachloroethene	ug/L	50	47.1	94	78-122	
Toluene	ug/L	50	46.1	92	80-121	
trans-1,2-Dichloroethene	ug/L	50	51.9	104	71-127	
trans-1,3-Dichloropropene	ug/L	50	47.8	96	69-141	
Trichloroethene	ug/L	50	50.3	101	78-122	
Trichlorofluoromethane	ug/L	50	49.2	98	53-137	
Vinyl acetate	ug/L	100	117	117	40-160	
Vinyl chloride	ug/L	50	47.4	95	50-150	
Xylene (Total)	ug/L	150	146	98	81-126	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: Badin Business Park MWs
Pace Project No.: 92391523

MATRIX SPIKE SAMPLE: 2321550

Parameter	Units	92391089005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	12.5	62	70-130	M1
1,1,1-Trichloroethane	ug/L	ND	20	15.7	79	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	12.9	64	70-130	M1
1,1,2-Trichloroethane	ug/L	ND	20	13.1	66	70-130	M1
1,1-Dichloroethane	ug/L	ND	20	15.0	75	70-130	
1,1-Dichloroethene	ug/L	ND	20	17.0	85	70-166	
1,1-Dichloropropene	ug/L	ND	20	15.2	76	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	10.7	53	70-130	M1
1,2,3-Trichloropropane	ug/L	ND	20	12.7	63	70-130	M1
1,2,4-Trichlorobenzene	ug/L	ND	20	11.3	56	70-130	M1
1,2-Dibromo-3-chloropropane	ug/L	ND	20	11.4	57	70-130	M1
1,2-Dibromoethane (EDB)	ug/L	ND	20	13.2	66	70-130	M1
1,2-Dichlorobenzene	ug/L	0.73J	20	13.3	63	70-130	M1
1,2-Dichloroethane	ug/L	ND	20	14.3	72	70-130	
1,2-Dichloropropane	ug/L	ND	20	14.3	71	70-130	
1,3-Dichlorobenzene	ug/L	3.7	20	15.6	60	70-130	M1
1,3-Dichloropropane	ug/L	ND	20	13.4	67	70-130	M1
1,4-Dichlorobenzene	ug/L	6.6	20	18.5	59	70-130	M1
2,2-Dichloropropane	ug/L	ND	20	14.0	70	70-130	
2-Butanone (MEK)	ug/L	ND	40	28.4	71	70-130	
2-Chlorotoluene	ug/L	ND	20	12.8	64	70-130	M1
2-Hexanone	ug/L	ND	40	24.8	62	70-130	M1
4-Chlorotoluene	ug/L	ND	20	13.3	67	70-130	M1
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	25.8	65	70-130	M1
Acetone	ug/L	ND	40	30.5	76	70-130	
Benzene	ug/L	0.72J	20	15.9	76	70-148	
Bromobenzene	ug/L	ND	20	13.3	66	70-130	M1
Bromochloromethane	ug/L	ND	20	16.4	82	70-130	
Bromodichloromethane	ug/L	ND	20	14.5	73	70-130	
Bromoform	ug/L	ND	20	12.9	64	70-130	M1
Bromomethane	ug/L	ND	20	11.5	58	70-130	M1
Carbon tetrachloride	ug/L	ND	20	15.8	79	70-130	
Chlorobenzene	ug/L	45.5	20	61.8	82	70-146	
Chloroethane	ug/L	ND	20	14.2	71	70-130	
Chloroform	ug/L	ND	20	13.9	70	70-130	
Chloromethane	ug/L	ND	20	9.4	47	70-130	M1
cis-1,2-Dichloroethene	ug/L	ND	20	15.5	78	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	14.2	71	70-130	
Dibromochloromethane	ug/L	ND	20	13.5	67	70-130	M1
Dibromomethane	ug/L	ND	20	15.8	79	70-130	
Dichlorodifluoromethane	ug/L	ND	20	14.1	70	70-130	
Diisopropyl ether	ug/L	ND	20	13.9	70	70-130	
Ethylbenzene	ug/L	ND	20	13.9	70	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	11.1	56	70-130	M1
m&p-Xylene	ug/L	ND	40	28.6	72	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	13.4	67	70-130	M1
Methylene Chloride	ug/L	ND	20	13.2	66	70-130	M1

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QUALITY CONTROL DATA

Project: Badin Business Park MWs
Pace Project No.: 92391523

MATRIX SPIKE SAMPLE: 2321550

Parameter	Units	92391089005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	11.2	56	70-130	M1
o-Xylene	ug/L	ND	20	14.2	71	70-130	
p-Isopropyltoluene	ug/L	ND	20	12.8	64	70-130	M1
Styrene	ug/L	ND	20	13.4	67	70-130	M1
Tetrachloroethene	ug/L	ND	20	12.3	62	70-130	M1
Toluene	ug/L	ND	20	14.0	70	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	16.3	81	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	13.1	66	70-130	M1
Trichloroethene	ug/L	ND	20	14.7	73	69-151	
Trichlorofluoromethane	ug/L	ND	20	15.2	76	70-130	
Vinyl acetate	ug/L	ND	40	24.6	61	70-130	M1
Vinyl chloride	ug/L	ND	20	16.0	80	70-130	
Xylene (Total)	ug/L	ND	60	42.8	71	70-130	
1,2-Dichloroethane-d4 (S)	%				111	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 2321551

Parameter	Units	92391089006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	0.25J		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	0.34J	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	

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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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Badin Business Park MWs
Pace Project No.: 92391523

SAMPLE DUPLICATE: 2321551

Parameter	Units	92391089006 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	1.5	0.88J		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	0.99J	0.73J		30	
o-Xylene	ug/L	0.23J	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	105	108	3		
4-Bromofluorobenzene (S)	%	102	94	8		
Toluene-d8 (S)	%	109	104	4		

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Huntersville, NC 28078
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QUALIFIERS

Project: Badin Business Park MWs
Pace Project No.: 92391523

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 adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Badin Business Park MWs
Pace Project No.: 92391523

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92391523001	**ABP-MW004-F005**	EPA 8260B	418810		
92391523002	**ABP-MW009-F005**	EPA 8260B	418810		
92391523003	**ABP-MW016-F005**	EPA 8260B	418810		
92391523004	**ABP-MW110-F005**	EPA 8260B	418810		
92391523005	**ABP-MW110-D005**	EPA 8260B	418810		
92391523006	**ABP-EB001-F005**	EPA 8260B	418810		
92391523007	**ABP-TB001-F005**	EPA 8260B	418810		

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: **F-CAR-CS-033-Rev.06**	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☑ **Raleigh** ☐ **Mechanicsville** ☐

Sample Condition Upon Receipt

Client Name: Environeering

Project #:

WO# : 92391523

92391523

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: CDK 7/11/18

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

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 92T040

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 5.1 **Correction Factor:** Add/Subtract (°C) +0.4

Cooler Temp Corrected (°C): 5.5

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on Ice, cooling process has begun

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: VLP **Date:** 071118

Project Manager SRF Review: NMG **Date:** 7/12/18

Pace Analytical®	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: **F-CAR-CS-033-Rev.06**	Issuing Authority: Pace Carolinas Quality Office

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project # WO#:92391523

PM: NMG Due Date: 07/25/18

CLIENT: 92-Alcoa

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																3												
2																3												
3																3												
4																3												
5																3												
6																3												
7																2												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A
Required Client Information:

Company:	Environeering
Address:	138 Fort Jackson Road
Morrisville, NC 27560	
Email:	M. Worden
Phone:	Fax:
Requested Due Date:	STD

Section B
Required Project Information:

Report To:	Michael Worden
Copy To:	
Purchase Order #:	
Project Name:	Badin Business Park MWs
Project #:	137-283

Section C
Invoice Information:

Attention:	
Company Name:	Environeering
Address:	Houston TX
Pace Quote:	
Pace Project Manager:	nicole.gasiorowski@pacelabs.com,
Pace Profile #:	7478

Regulatory Agency

State / Location: NC

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: 8260 VOCs	Trip BLANK	Residual Chlorine (Y/N)	923911523
1	ABP-MW004-F005	WT	G			7/9	1425		3				X					X			001
2	ABP-MW009-F005	WT	G			7/9	1255		3				X					X			002
3	ABP-MW016-F005	WT	G			7/9	1130		3				X					X			003
4	ABP-MW110-F005	WT	G			7/10	845		3				X					X			004
5	ABP-MW110-D005	WT	G			7/10	850		3				X					X			005
6	ABP-EB001-F005	WT	G			7/10	915		3				X					X			006
7	ABP-TB001-F005	WT	G			-	-		2				X						X		007
8																					
9																					
10																					
11																					
12																					

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	M. Worden, Environeering	7/11/18	1510	Amber Paxton, Environeering	7/11/18	1510
	Amber Paxton, Environeering	7/11/18	1635	Michael D	7/11/18	1635
				[signature]	7/11/18	1635

SAMPLE CONDITIONS	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	5.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MICHAEL WORDEN

SIGNATURE of SAMPLER: [signature] DATE Signed: 7/10/18