

# **Attachment 1**

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**Outfall 019 EPA Form 2E**

<b>FORM 2E NPDES</b>		<b>U.S. Environmental Protection Agency</b> <b>Application for NPDES Permit to Discharge Wastewater</b> <b>MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL FACILITIES WHICH</b> <b>DISCHARGE ONLY NONPROCESS WASTEWATER</b>
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**SECTION 1. OUTFALL LOCATION (40 CFR 122.21(H)(1))**

<b>Outfall Location</b>	<u>1.1</u>	Provide information on each of the facility's outfalls in the table below.		
	<b>Outfall Number</b>	<b>Receiving Water Name</b>	<b>Latitude</b>	<b>Longitude</b>
	019	Badin Lake	35° 24' 46.88" N	80° 6' 16.53" N

**SECTION 2. DISCHARGE DATE (40 CFR 122.21(H)(2))**

<b>Discharge Date</b>	<u>2.1</u>	Are you a new or existing discharger? (Check only one response.) <input type="checkbox"/> New discharger <input checked="" type="checkbox"/> Existing discharger → SKIP to Section 3.
	<u>2.2</u>	Specify your anticipated discharge date:

**SECTION 3. WASTE TYPES (40 CFR 122.21(H)(3))**

<b>Waste Types</b>	<u>3.1</u>	What types of wastes are currently being discharged if you are an existing discharger or will be discharged if you are a new discharger? (Check all that apply.) <input type="checkbox"/> Sanitary wastes <input checked="" type="checkbox"/> Other nonprocess wastewater (describe/explain directly below) <input type="checkbox"/> Restaurant or cafeteria waste <input type="checkbox"/> Non-contact cooling water Stormwater
	<u>3.2</u>	Does the facility use cooling water additives? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 4.
	<u>3.3</u>	List the cooling water additives used and describe their composition.

Cooling Water Additives (list)	Composition of Additives (if available to you)

**SECTION 4. EFFLUENT CHARACTERISTICS (40 CFR 122.21(H)(4))**

<b>Effluent Characteristics</b>	<u>4.1</u>	Have you completed monitoring for all parameters in the table below at each of your outfalls and attached the results to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No; a waiver has been requested for one or more parameters from my NPDES permitting authority (attach waiver request and additional information).					
	<u>4.2</u>	Provide data as requested in the table below. <sup>1</sup> Enter "Waiver" in the "Number of Analyses" column for those parameters for which you are requesting a waiver. (See instructions for specifics.)					
	<b>Parameter or Pollutant</b>	<b>Number of Analyses</b> (if actual data reported)	<b>Maximum Daily Discharge</b> (specify units)		<b>Average Daily Discharge</b> (specify units)		<b>Source</b> (use codes per instructions)
			<b>Mass</b>	<b>Conc.</b>	<b>Mass</b>	<b>Conc.</b>	
	Biochemical oxygen demand (BOD <sub>5</sub> )	2	0.19 #/day	9.9 mg/L	0.12 #/da	6.5 mg/l	NA
	Total suspended solids (TSS)	3	0.43 #/day	13 mg/L	0.26 #/da	9.6 mg/l	NA
	Oil and grease	2	<1.2 #/day	<4.9 mg/L	<0.6 #/da	<3.8 mg/l	NA
	Ammonia (as N)	1	<0.6 #/day	<2.4 mg/L			NA
	Discharge flow	219	0.03 MGD				NA
	pH (report as range)	4	6.5 - 7.7 s.u.				NA
Temperature (winter)	2	11.6 C				NA	
Temperature (summer)	0					NA	

<sup>1</sup> Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

<b>Effluent Characteristics Continued</b>	<a href="#">4.3</a>	Is fecal coliform believed present, or is sanitary waste discharged (or will it be discharged)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.5.						
	<a href="#">4.4</a>	Provide data as requested in the table below. <sup>1</sup> (See instructions for specifics.)						
		<b>Parameter or Pollutant</b>	<b>Number of Analyses</b> (if actual data reported)	<b>Maximum Daily Discharge</b> (specify units)		<b>Average Daily Discharge</b> (specify units)	<b>Source</b> (use codes per instructions)	
				<b>Mass</b>	<b>Conc.</b>	<b>Mass</b>		<b>Conc.</b>
		Fecal coliform						
		<i>E. coli</i>						
		Enterococci						
	<a href="#">4.5</a>	Is chlorine used (or will it be used)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.7.						
	<a href="#">4.6</a>	Provide data as requested in the table below. <sup>2</sup> (See instructions for specifics.)						
		<b>Parameter or Pollutant</b>	<b>Number of Analyses</b> (if actual data reported)	<b>Maximum Daily Discharge</b> (specify units)		<b>Average Daily Discharge</b> (specify units)	<b>Source</b> (use codes per instructions)	
			<b>Mass</b>	<b>Conc.</b>	<b>Mass</b>	<b>Conc.</b>		
	Total residual chlorine							
<a href="#">4.7</a>	Is non-contact cooling water discharged (or will it be discharged)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 5.							
<a href="#">4.8</a>	Provide data as requested in the table below. <sup>1</sup> (See instructions for specifics.)							
	<b>Parameter or Pollutant</b>	<b>Number of Analyses</b> (if actual data reported)	<b>Maximum Daily Discharge</b> (specify units)		<b>Average Daily Discharge</b> (specify units)	<b>Source</b> (use codes per instructions)		
			<b>Mass</b>	<b>Conc.</b>	<b>Mass</b>		<b>Conc.</b>	
	Chemical oxygen demand (COD)							
	Total organic carbon (TOC)							
<b>SECTION 5. FLOW (40 CFR 122.21(H)(5))</b>								
<b>Flow</b>	<a href="#">5.1</a>	Except for stormwater runoff, leaks, or spills, are any of the discharges you described in Sections 1 and 3 of this application intermittent or seasonal? <input type="checkbox"/> Yes → Complete this section. <input checked="" type="checkbox"/> No → SKIP to Section 6.						
	<a href="#">5.2</a>	Briefly describe the frequency and duration of flow.						
<b>SECTION 6. TREATMENT SYSTEM (40 CFR 122.21(H)(6))</b>								
<b>Treatment System</b>	<a href="#">6.1</a>	Briefly describe any treatment system(s) used (or to be used).  No treatment system present.						

<sup>2</sup> Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

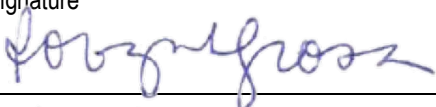
EPA Identification Number NCD003162542	NPDES Permit Number NC0004308	Facility Name Badin Business Park, LLC
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OMB No. 2040-0004  
Expires 07/31/2026

**SECTION 7. OTHER INFORMATION (40 CFR 122.21(H)(7))**

<b>Other Information</b>	<p><u>7.1</u> Use the space below to expand upon any of the above items. Use this space to provide any information you believe the reviewer should consider in establishing permit limitations. Attach additional sheets as needed. <i>(optional item)</i></p> <p>Semi-annual sampling for aluminum, cyanide, and fluoride is required for this outfall under the current permit. The maximum daily concentrations are 5.7 mg/L for aluminum, 0 ug/L for cyanide, and 1.8 mg/L for fluoride. The average daily concentrations are 2.8 mg/L for aluminum, 0 ug/L for cyanide, and 0.9 mg/L for fluoride. These results were calculated from data collected since the permit modification (July 2019) and includes a total of 3 data points for all parameters.</p>
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**SECTION 8. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))**

<b>Checklist and Certification Statement</b>	<u>8.1</u>	<p>In Column 1 below, mark the sections of Form 2E that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.</p>	
		<b>Column 1</b>	<b>Column 2</b>
		<input checked="" type="checkbox"/> Section 1: Outfall Location	<input type="checkbox"/> w/ attachments (e.g., responses for additional outfalls)
		<input checked="" type="checkbox"/> Section 2: Discharge Date	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 3: Waste Types	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 4: Effluent Characteristics	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 5: Flow	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 6: Treatment System	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 7: Other Information	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 8: Checklist and Certification Statement	<input type="checkbox"/> w/ attachments
	<u>8.2</u>	<p><b>Certification Statement</b></p> <p><i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i></p>	
	Name (print or type first and last name)	Official title	
	Robyn Gross	Global Director, Alcoa Transformation	
	Signature	Date signed	
		2/26/2024	

# **Attachment 2**

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**Outfall 019 EPA Form 2F**

EPA Identification Number NCD003162542	NPDES Permit Number NC0004308	Facility Name Badin Business Park, LLC	Outfall Number 019
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Expires 07/31/2026

**TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(C)(1)(I)(E)(3))<sup>1</sup>**

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant or Parameter		Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	<4.9 mg/L		<3.8 mg/L		2	NA
2.	Biochemical oxygen demand (BOD <sub>5</sub> )	9.9 mg/L	NA	6.5 mg/L	NA	2	NA
3.	Chemical oxygen demand (COD)	24 mg/L	NA	24 mg/L	NA	1	NA
4.	Total suspended solids (TSS)	13 mg/L	NA	9.6 mg/L	NA	3	NA
5.	Total phosphorus	<20 mg/L	NA	<20 mg/L	NA	1	NA
6.	Total Kjeldahl nitrogen (TKN)	0.54 mg/L	NA	0.54 mg/L	NA	1	NA
7.	Total nitrogen (as N)	0.77 mg/L	NA	0.77 mg/L	NA	1	NA
8.	pH (minimum)	6.5 s.u.		6.5 s.u.		4	NA
	pH (maximum)	7.7 s.u.		7.7 s.u.		4	NA

<sup>1</sup> Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))<sup>1</sup>**

List each pollutant that is limited in an effluent limitation guideline (ELG) that the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Fluoride	1.8 mg/L	NA	0.9 mg/L	NA	3	NA
Cyanide, Total	<6 ug/L	NA	<5.7 ug/L	NA	3	NA
Aluminum, Total	5.7 mg/L	NA	2.8 mg/L	NA	3	NA

<sup>1</sup> Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).



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**TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(B) AND (VII))<sup>1</sup>**

List each pollutant shown in Exhibits 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		

<sup>1</sup> Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number NCD003162542	NPDES Permit Number NC0004308	Facility name Badin Business Park, LLC	Outfall Number 019
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**TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(C)(1)(I)(E)(6))**

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
	NA	NA	NA	NA	NA

Provide a description of the method of flow measurement or estimate.

# **Attachment 3**

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**Outfall 019 Analytical Laboratory Report**

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Melissa Vaught  
FTN Associates, Ltd.  
3 Innwood Circle  
Suite 220  
Little Rock, Arkansas 72211

Generated 1/30/2024 2:48:41 PM

## JOB DESCRIPTION

Badin Business Park - Outfall 019

## JOB NUMBER

410-157788-1

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



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1/30/2024 2:48:41 PM

Authorized for release by  
Kelly Bauer, Project Manager  
[Kelly.Bauer@et.eurofinsus.com](mailto:Kelly.Bauer@et.eurofinsus.com)  
(717)556-7262

## Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



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# Definitions/Glossary

Client: FTN Associates, Ltd.

Job ID: 410-157788-1

Project/Site: Badin Business Park - Outfall 019

## Qualifiers

### General Chemistry

Qualifier	Qualifier Description
b	Result Detected in the Unseeded Control blank (USB).
cn	Refer to Case Narrative for further detail
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: FTN Associates, Ltd.  
Project: Badin Business Park - Outfall 019

Job ID: 410-157788-1

**Job ID: 410-157788-1**

**Eurofins Lancaster Laboratories Environment**

## Job Narrative 410-157788-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The sample was received on 1/18/2024 1:55 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### General Chemistry

Method 2540D: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 7 days. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: OF019 - Grab (410-157788-1).

Method SM4500NH3\_D: The following sample was diluted due to the nature of the sample matrix: OF019 - Grab (410-157788-1). Elevated reporting limits (RLs) are provided.

Method SM5210B\_Calc: The method blank result associated with batch 410-466367 was higher than the method-required limit of 0.2 mg/L.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Detection Summary

Client: FTN Associates, Ltd.  
Project/Site: Badin Business Park - Outfall 019

Job ID: 410-157788-1

**Client Sample ID: OF019 - Grab**

**Lab Sample ID: 410-157788-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	5700		25		ug/L	1		6020B	Total Recoverable
Total Suspended Solids	22	H cn	3.0		mg/L	1		2540D-2015	Total/NA
Biochemical Oxygen Demand	2.4	H H3 b cn	2.0		mg/L	1		5210 B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

- 1
- 2
- 3
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- 14

# Client Sample Results

Client: FTN Associates, Ltd.  
 Project/Site: Badin Business Park - Outfall 019

Job ID: 410-157788-1

**Client Sample ID: OF019 - Grab**

**Lab Sample ID: 410-157788-1**

Date Collected: 01/12/24 18:31

Matrix: Water

Date Received: 01/18/24 13:55

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<1.0		1.0		mg/L			01/27/24 00:31	5

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5700		25		ug/L		01/24/24 07:45	01/29/24 09:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664B)	<4.9		4.9		mg/L			01/25/24 18:47	1
<b>Total Suspended Solids (SM 2540D-2015)</b>	<b>22</b>	<b>H cn</b>	3.0		mg/L			01/22/24 05:56	1
Ammonia-N (SM 4500 NH3 D-2011)	<2.4	cn	2.4		mg/L			01/23/24 06:26	10
<b>Biochemical Oxygen Demand (SM 5210 B-2011)</b>	<b>2.4</b>	<b>H H3 b cn</b>	2.0		mg/L			01/19/24 19:43	1
Cyanide, Total (ASTM D7511-12)	<0.0060		0.0060		mg/L			01/25/24 10:58	1



# QC Sample Results

Client: FTN Associates, Ltd.  
 Project/Site: Badin Business Park - Outfall 019

Job ID: 410-157788-1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-467310/41  
 Matrix: Water  
 Analysis Batch: 467310

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.20		0.20		mg/L			01/27/24 01:40	1

Lab Sample ID: LCS 410-467310/39  
 Matrix: Water  
 Analysis Batch: 467310

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.684		mg/L		91	90 - 110

Lab Sample ID: LCSD 410-467310/40  
 Matrix: Water  
 Analysis Batch: 467310

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.697		mg/L		93	90 - 110	2	20

## Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-465743/1-A  
 Matrix: Water  
 Analysis Batch: 467665

Client Sample ID: Method Blank  
 Prep Type: Total Recoverable  
 Prep Batch: 465743

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		25		ug/L		01/24/24 07:45	01/29/24 09:02	1

Lab Sample ID: LCS 410-465743/2-A  
 Matrix: Water  
 Analysis Batch: 467665

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 465743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	5130		ug/L		103	87 - 119

Lab Sample ID: LCSD 410-465743/3-A  
 Matrix: Water  
 Analysis Batch: 467665

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total Recoverable  
 Prep Batch: 465743

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	5000	5030		ug/L		101	87 - 119	2	20

## Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 410-466892/1  
 Matrix: Water  
 Analysis Batch: 466892

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<5.0		5.0		mg/L			01/25/24 18:47	1

# QC Sample Results

Client: FTN Associates, Ltd.  
 Project/Site: Badin Business Park - Outfall 019

Job ID: 410-157788-1

## Method: 1664B - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 410-466892/2  
 Matrix: Water  
 Analysis Batch: 466892

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM (Oil & Grease)	40.0	34.1		mg/L		85	78 - 114

Lab Sample ID: LCSD 410-466892/3  
 Matrix: Water  
 Analysis Batch: 466892

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	31.4		mg/L		78	78 - 114	8	13

## Method: 2540D-2015 - Total Suspended Solids (Dried at 103-105°C)

Lab Sample ID: MB 410-465245/1  
 Matrix: Water  
 Analysis Batch: 465245

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.0		3.0		mg/L			01/22/24 05:56	1

Lab Sample ID: LCS 410-465245/2  
 Matrix: Water  
 Analysis Batch: 465245

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	151	147		mg/L		97	89 - 105

## Method: 4500 NH3 D-2011 - Ammonia

Lab Sample ID: MB 410-465681/5  
 Matrix: Water  
 Analysis Batch: 465681

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia-N	<0.24		0.24		mg/L			01/22/24 15:00	1

Lab Sample ID: LCS 410-465681/6  
 Matrix: Water  
 Analysis Batch: 465681

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia-N	5.00	4.75		mg/L		95	88 - 122

## Method: 5210 B-2011 - BOD, 5-Day

Lab Sample ID: SCB 410-466367/13  
 Matrix: Water  
 Analysis Batch: 466367

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.938		0.0000010		mg/L			01/19/24 16:16	1

# QC Sample Results

Client: FTN Associates, Ltd.  
 Project/Site: Badin Business Park - Outfall 019

Job ID: 410-157788-1

## Method: 5210 B-2011 - BOD, 5-Day (Continued)

**Lab Sample ID: USB 410-466367/11**  
**Matrix: Water**  
**Analysis Batch: 466367**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.343		0.0000010		mg/L			01/19/24 16:06	1

**Lab Sample ID: LCS 410-466367/36**  
**Matrix: Water**  
**Analysis Batch: 466367**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	199	188		mg/L		95	85 - 115

## Method: D7511-12 - Total Cyanide

**Lab Sample ID: MB 410-468157/15**  
**Matrix: Water**  
**Analysis Batch: 468157**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0060		0.0060		mg/L			01/25/24 10:47	1

**Lab Sample ID: LCS 410-468157/16**  
**Matrix: Water**  
**Analysis Batch: 468157**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0501	0.0528		mg/L		105	84 - 116



# QC Association Summary

Client: FTN Associates, Ltd.  
Project/Site: Badin Business Park - Outfall 019

Job ID: 410-157788-1

## HPLC/IC

### Analysis Batch: 467310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-157788-1	OF019 - Grab	Total/NA	Water	EPA 300.0 R2.1	
MB 410-467310/41	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-467310/39	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-467310/40	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 465743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-157788-1	OF019 - Grab	Total Recoverable	Water	3005A	
MB 410-465743/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-465743/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 410-465743/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

### Analysis Batch: 467665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-157788-1	OF019 - Grab	Total Recoverable	Water	6020B	465743
MB 410-465743/1-A	Method Blank	Total Recoverable	Water	6020B	465743
LCS 410-465743/2-A	Lab Control Sample	Total Recoverable	Water	6020B	465743
LCSD 410-465743/3-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	465743

## General Chemistry

### Analysis Batch: 465245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-157788-1	OF019 - Grab	Total/NA	Water	2540D-2015	
MB 410-465245/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-465245/2	Lab Control Sample	Total/NA	Water	2540D-2015	

### Analysis Batch: 465681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-157788-1	OF019 - Grab	Total/NA	Water	4500 NH3 D-2011	
MB 410-465681/5	Method Blank	Total/NA	Water	4500 NH3 D-2011	
LCS 410-465681/6	Lab Control Sample	Total/NA	Water	4500 NH3 D-2011	

### Analysis Batch: 466367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-157788-1	OF019 - Grab	Total/NA	Water	5210 B-2011	
SCB 410-466367/13	Method Blank	Total/NA	Water	5210 B-2011	
USB 410-466367/11	Method Blank	Total/NA	Water	5210 B-2011	
LCS 410-466367/36	Lab Control Sample	Total/NA	Water	5210 B-2011	

### Analysis Batch: 466892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-157788-1	OF019 - Grab	Total/NA	Water	1664B	
MB 410-466892/1	Method Blank	Total/NA	Water	1664B	
LCS 410-466892/2	Lab Control Sample	Total/NA	Water	1664B	
LCSD 410-466892/3	Lab Control Sample Dup	Total/NA	Water	1664B	

# QC Association Summary

Client: FTN Associates, Ltd.  
Project/Site: Badin Business Park - Outfall 019

Job ID: 410-157788-1

## General Chemistry

### Analysis Batch: 468157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-157788-1	OF019 - Grab	Total/NA	Water	D7511-12	
MB 410-468157/15	Method Blank	Total/NA	Water	D7511-12	
LCS 410-468157/16	Lab Control Sample	Total/NA	Water	D7511-12	

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# Lab Chronicle

Client: FTN Associates, Ltd.  
 Project/Site: Badin Business Park - Outfall 019

Job ID: 410-157788-1

**Client Sample ID: OF019 - Grab**

**Lab Sample ID: 410-157788-1**

**Date Collected: 01/12/24 18:31**

**Matrix: Water**

**Date Received: 01/18/24 13:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	467310	W7FX	ELLE	01/27/24 00:31
Total Recoverable	Prep	3005A			465743	NU9R	ELLE	01/24/24 07:45
Total Recoverable	Analysis	6020B		1	467665	F7JF	ELLE	01/29/24 09:32
Total/NA	Analysis	1664B		1	466892	QT6L	ELLE	01/25/24 18:47
Total/NA	Analysis	2540D-2015		1	465245	M98K	ELLE	01/22/24 05:56 - 01/23/24 06:10 <sup>1</sup>
Total/NA	Analysis	4500 NH3 D-2011		10	465681	UML5	ELLE	01/23/24 06:26
Total/NA	Analysis	5210 B-2011		1	466367	B6LN	ELLE	01/19/24 19:43
Total/NA	Analysis	D7511-12		1	468157	UJE2	ELLE	01/25/24 10:58

<sup>1</sup> This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



# Accreditation/Certification Summary

Client: FTN Associates, Ltd.  
 Project/Site: Badin Business Park - Outfall 019

Job ID: 410-157788-1

## Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
North Carolina (DW)	State	42705	07-31-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1664B		Water	HEM (Oil & Grease)
2540D-2015		Water	Total Suspended Solids
4500 NH3 D-2011		Water	Ammonia-N
5210 B-2011		Water	Biochemical Oxygen Demand
6020B	3005A	Water	Aluminum
D7511-12		Water	Cyanide, Total
EPA 300.0 R2.1		Water	Fluoride
North Carolina (WW/SW)	State	521	12-31-24



# Method Summary

Client: FTN Associates, Ltd.  
Project/Site: Badin Business Park - Outfall 019

Job ID: 410-157788-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
1664B	HEM and SGT-HEM	1664B	ELLE
2540D-2015	Total Suspended Solids (Dried at 103-105°C)	SM	ELLE
4500 NH3 D-2011	Ammonia	SM	ELLE
5210 B-2011	BOD, 5-Day	SM	ELLE
D7511-12	Total Cyanide	ASTM	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE

**Protocol References:**

1664B = EPA-821-98-002

ASTM = ASTM International

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



# Sample Summary

Client: FTN Associates, Ltd.  
Project/Site: Badin Business Park - Outfall 019

Job ID: 410-157788-1

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<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
410-157788-1	OF019 - Grab	Water	01/12/24 18:31	01/18/24 13:55

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410-157788 Chain of Custody

Date: 1-15-24		Project Name: Badin Business Park - Outfall 019			Project No.: 06010-1805-001			Project Manager (Print): Jon Wilson			Page 1 of 1						
Laboratory Name: Eurofins - Lancaster				Submitted by: Jon Wilson Badin Business Park LLC 293 Highway 740 Badin, North Carolina 28009 704-562-6138 <a href="mailto:jon.wilson@alcoa.com">jon.wilson@alcoa.com</a>				Parameters (Method Number)					Lab Turn-Around-Time				
Sampler Signature(s): <i>Jon Wilson</i>				Recorded By (Print): Jon Wilson				Total Fluoride (EPA 300 - DL 0.1 mg/L)					24 Hours				
								TSS (2540D - DL 3 mg/L)					48 Hours				
								Total Aluminum (6020B - DL 200 ug/L)					Normal				
								Total Cyanide (ASTM D 7511 - DL 6.0 ug/L)					Other: . Due: / /				
								600 - 5210B									
								Ammonia - SIM 4500 MB									
								0.1 and Grout - 1664B									
SAMPLE DESCRIPTION												Laboratory Notes					
Sample Identification	Date	Time	Matrix*			No. of Containers	Comp	Grab	Total Fluoride (EPA 300 - DL 0.1 mg/L)	TSS (2540D - DL 3 mg/L)	Total Aluminum (6020B - DL 200 ug/L)	Total Cyanide (ASTM D 7511 - DL 6.0 ug/L)	600 - 5210B	Ammonia - SIM 4500 MB	0.1 and Grout - 1664B		
			W	S	O												
OF019 - Grab	1-12-24	1831	X			7		X	X	X	X	X	X	X			
Semi-annual																	
Container Type								P	P	P	P						
Preservative								NO	NO	N	B						
Samples shipped on ice. W=Water S=Soil O=Other								G=Glass P=Plastic V=VOA vials H=HCl to pH2 T=Sodium NO=None S=Sulfuric acid pH2 N=Nitric acid pH2 B=NaOH to pH12 Z=Zinc acetate									
Relinquished By (Signature): <i>Jon Wilson</i>		Print Name: Jon Wilson		Date: 1-15-24		Time: 1100		Received By (Signature): <i>[Signature]</i>		Print Name:		Date:		Time:			
Relinquished By (Signature): <i>[Signature]</i>		Print Name:		Date:		Time:		Received By Laboratory (Signature): <i>[Signature]</i>		Print Name: Leah Foreman		Date: 1/19/24		Time: 1355			
Please send results to: <a href="mailto:mmv@fn-assoc.com">mmv@fn-assoc.com</a> ; <a href="mailto:jon.wilson@alcoa.com">jon.wilson@alcoa.com</a>								Laboratory Remarks: Outfall 019 compliance samples.									

*NS*

*Ro.80 Co.80*

*[Signature]*

## Login Sample Receipt Checklist

Client: FTN Associates, Ltd.

Job Number: 410-157788-1

Login Number: 157788

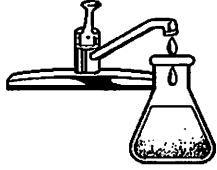
List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Santiago, Nathaniel

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	





**K & W Laboratories**  
1121 Hwy 24/27 W  
Midland, North Carolina 28107  
Tel (704) 888-1211 Fax (704) 888-1511

# Results Report

**Client:** Badin Business Park  
293 Highway 740  
Badin, NC 28009

**Date:** 06-Feb-24  
**Order ID:** 24012907

**Project:** Stormwater

**Collect Date:** 1/27/2024

**Location:** OF019-Grab

**Collect Time:** 11:53:00 PM

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SAMPLE #	PARAMETER	RESULT	UNITS	METHOD	REPORTING LIMIT	ANALYSIS DATE
24012907-01	BOD	3.0	mg/L	SM5210B	2	1/29/2024
24012907-01	TSS	6.8	mg/L	SM2540D	2.8	2/1/2024

---

**Certified By** G. Kraska  
G. Kraska / Lab Director

**NC Certification: 559 SC Certification: 99051**

# K & W Laboratories

1121 Hwy 24/27 W Midland, NC 28107

Tel: 704-888-1211

Fax: 704-888-1511

## Chain of Custody Record

Client/Company: Badin Business Park  
 Address: 293 Highway 740  
 Badin, NC 28009  
 Contact: Jon Wilson  
 Phone: 704-562-6138 Fax:

Report To: jon.wilson@alcoa.com; mmv@ftn-assoc.com  
 Copy To:  
 Bill To: Alcoa  
 PO # 270677630TRF

Remarks:

Project Name: Badin Business Park  
 Sampled By: Jon Wilson

Matrix Types: DW-Drinking Water  
 WW-Waste Water GW-Ground Water  
 OT- Other

Type of Cont:  
 P-Plastic  
 G-Glass

Item No.	Sample ID:	Sample Loc	Sample Type	Matrix	Number of Containers	Type of Cont	Temp at Collection	24 Hour Composite				Preservatives					Analysis Requested						Lab Log #																
								Start		End		Unpreserved	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NaOH	H <sub>2</sub> SO <sub>4</sub>	HCl	HNO <sub>3</sub>	BOD	TSS																				
								Date	Time	Date	Time																												
1	OF019 - Grab	E	G	WW	2	P	14	1/27/24	2353	---	---	X							X	X																	24012907		
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Relinquished By: Jon Wilson	Date: 1-27-24	Time: 1240	Received By: [Signature]	Date: 1/29/24	Time: 1240	Sample Temp: 6.2 °C On Ice: <input checked="" type="checkbox"/> / N
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	