

## Julia Redden

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**From:** Clementine Dulieu  
**Sent:** Thursday, September 26, 2019 9:24 AM  
**To:** tims@russellsgc.com  
**Cc:** Katie Wolf; Julia Redden; Kathleen Kwasniak  
**Subject:** Wayland Property Owner Data Transmittal - August/Sept 2019  
**Attachments:** ERM Lab Reports\_August Sept 2019.pdf; Russell's Garden Center BWSC-123.pdf

Hi Tim,

ERM collected groundwater samples from monitoring wells located on Russell's Garden Center property at the former Raytheon Facility located at 430 Boston Post Road in Wayland, MA in August/September 2019. The analytical results and BWSC-123 form are attached to this email.

These results are being sent via email for Russell's Garden Center records.

Please let me know if you have any questions or require any additional information.

Thanks,

Clementine Dulieu  
Project Geologist

**ERM**  
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**T** +1 617 646 7860 | **M** +1 774 722 2902  
**E** [clementine.dulieu@erm.com](mailto:clementine.dulieu@erm.com) | **W** [www.erm.com](http://www.erm.com)





**NOTICE OF ENVIRONMENTAL SAMPLING**

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

-

**A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):**

1. Street Address: \_\_\_\_\_  
City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**B. This notice is being provided to the following party:**

1. Name: \_\_\_\_\_  
2. Street Address: \_\_\_\_\_  
City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**C. This notice is being given to inform its recipient (the party listed in Section B):**

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

**D. Location of the property where the environmental sampling will be/has been conducted:**

1. Street Address: \_\_\_\_\_  
City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

2. MCP phase of work during which the sampling will be/has been conducted:

Immediate Response Action	Phase III Feasibility Evaluation
Release Abatement Measure	Phase IV Remedy Implementation Plan
Utility-related Abatement Measure	Phase V/Remedy Operation Status
Phase I Initial Site Investigation	Post-Temporary Solution Operation, Maintenance and Monitoring
Phase II Comprehensive Site Assessment	Other _____

(specify)

3. Description of property where sampling will be/has been conducted:  
residential      commercial      industrial      school/playground      Other \_\_\_\_\_  
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

**E. Contact information related to the party providing this notice:**

Contact Name: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Email: \_\_\_\_\_



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

**BWSC123**

This Notice is Related to:  
Release Tracking Number

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**NOTICE OF ENVIRONMENTAL SAMPLING**

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

**Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

**Section D** on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

## ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

Laboratory Job ID: 480-158129-1  
Client Project/Site: IDS Wayland

For:  
ERM-Northeast  
One Beacon Steet  
5th Floor  
Boston, Massachusetts 02108

Attn: Lyndsey Colburn



Authorized for release by:  
8/30/2019 11:22:17 AM

Becky Mason, Project Manager II  
(413)572-4000  
[becky.mason@testamericainc.com](mailto:becky.mason@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

## 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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

# Case Narrative

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

## Job ID: 480-158129-1

### Laboratory: Eurofins TestAmerica, Buffalo

#### Narrative

#### Job Narrative 480-158129-1

#### Receipt

The samples were received on 8/24/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

#### GC/MS VOA

Method 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The continuing calibration verification (CCV) for 1,4-Dioxane, Acetonitrile and Dichlorodifluoromethane associated with batch 480-489150 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : [REDACTED]

[REDACTED]  
MW-217M-20190821-01 (480-158129-12), [REDACTED] TB  
-001-20190821-01 (480-158129-15) and PDB-BLANK -20190822-01 (480-158129-16).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-489150 exceeded control limits for the following analytes: 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : [REDACTED]

[REDACTED]  
[REDACTED] MW-217M-20190821-01 (480-158129-12), [REDACTED]  
[REDACTED] TB -001-20190821-01 (480-158129-15) and PDB-BLANK -20190822-01 (480-158129-16).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-489150 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected : [REDACTED]

[REDACTED]  
[REDACTED] MW-217M-20190821-01 (480-158129-12), [REDACTED]  
[REDACTED] TB -001-20190821-01 (480-158129-15) and PDB-BLANK -20190822-01  
(480-158129-16).

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

## MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-158129-1**

Project Location: **Wayland MA** RTN:

**This form provides certifications for the data set for the following Laboratory Sample ID Number(s):**  
**480-158129-1[1-16]**

Matrices:  Groundwater/Surface Water  Soil/Sediment  Drinking Water  Air  Other:

### CAM Protocols (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9012 / 9014/ 4500CN Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	

### Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

<b>A</b>	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>B</b>	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>C</b>	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>D</b>	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>E</b>	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>F</b>	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

### Responses to Questions G, H and I below are required for "Presumptive Certainty" status


<b>G</b>	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup>
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**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

<b>H</b>	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup>
<b>I</b>	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>

<sup>1</sup> All negative responses must be addressed in an attached laboratory narrative.

**I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.**

Signature:  Position: Project Manager

Printed Name: Becky Mason Date: 8/30/19 11:21

This form has been electronically signed and approved



# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

**Client Sample ID: MW-217M-20190821-01**

**Lab Sample ID: 480-158129-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	48		1.0		ug/L	1		8260C	Total/NA
Tert-amyl methyl ether	22		5.0		ug/L	1		8260C	Total/NA
Trichloroethene	3.9		1.0		ug/L	1		8260C	Total/NA

**Client Sample ID: TB -001-20190821-01**

**Lab Sample ID: 480-158129-15**

No Detections.

**Client Sample ID: PDB-BLANK -20190822-01**

**Lab Sample ID: 480-158129-16**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

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# Client Sample Results

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Job ID: 480-158129-1

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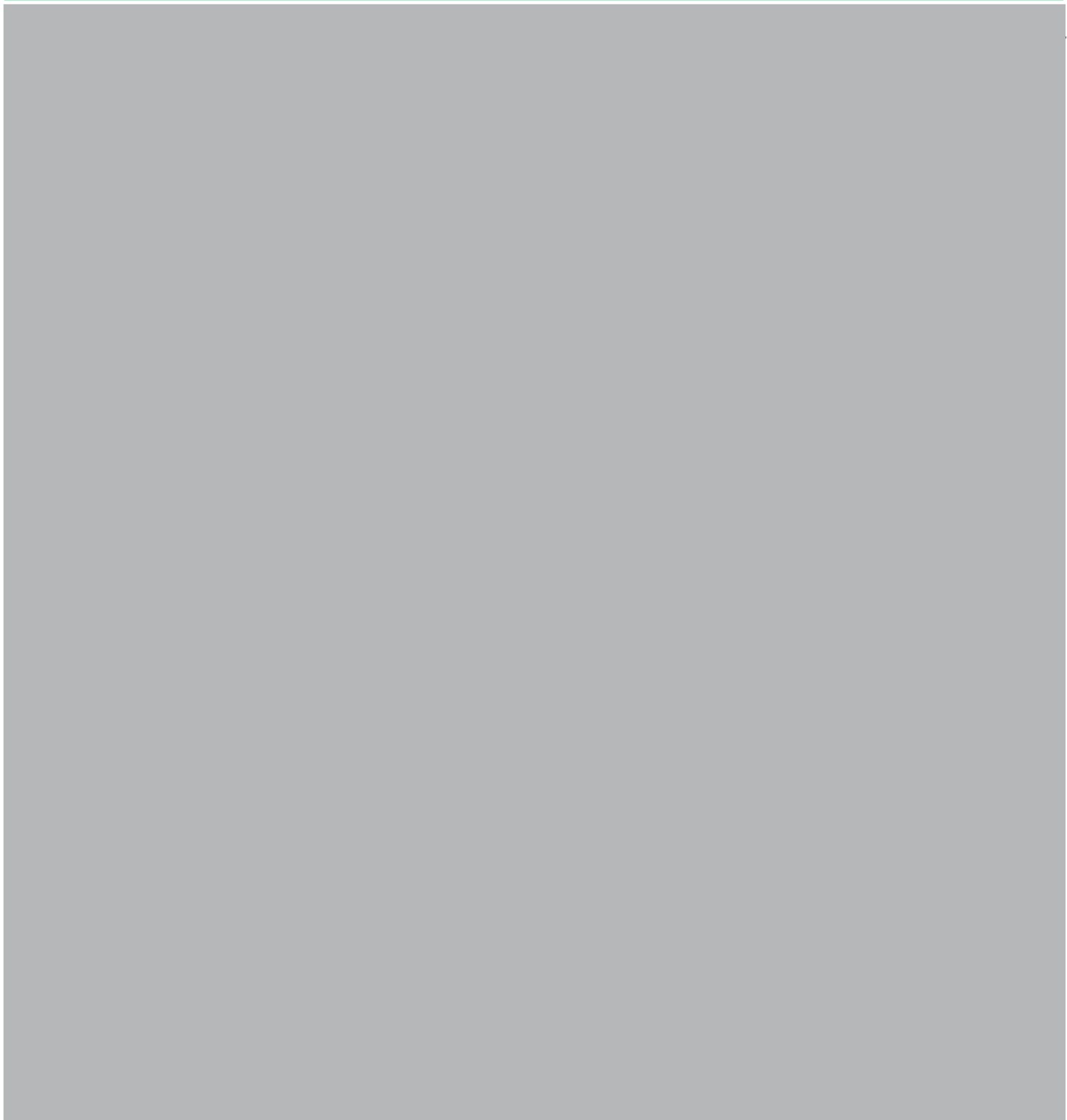
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Client: ERM-Northeast  
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Job ID: 480-158129-1

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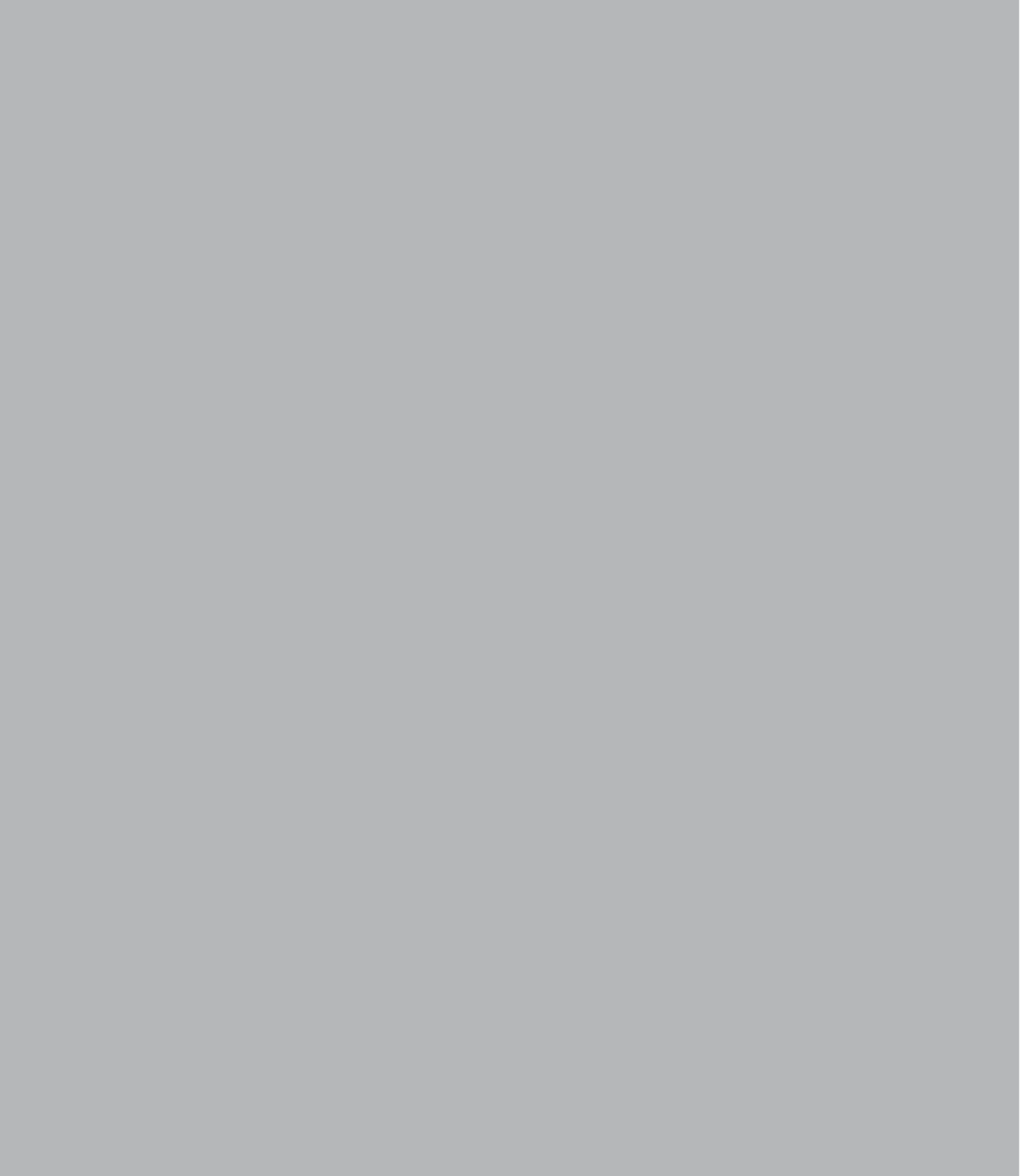
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Project/Site: IDS Wayland

Job ID: 480-158129-1

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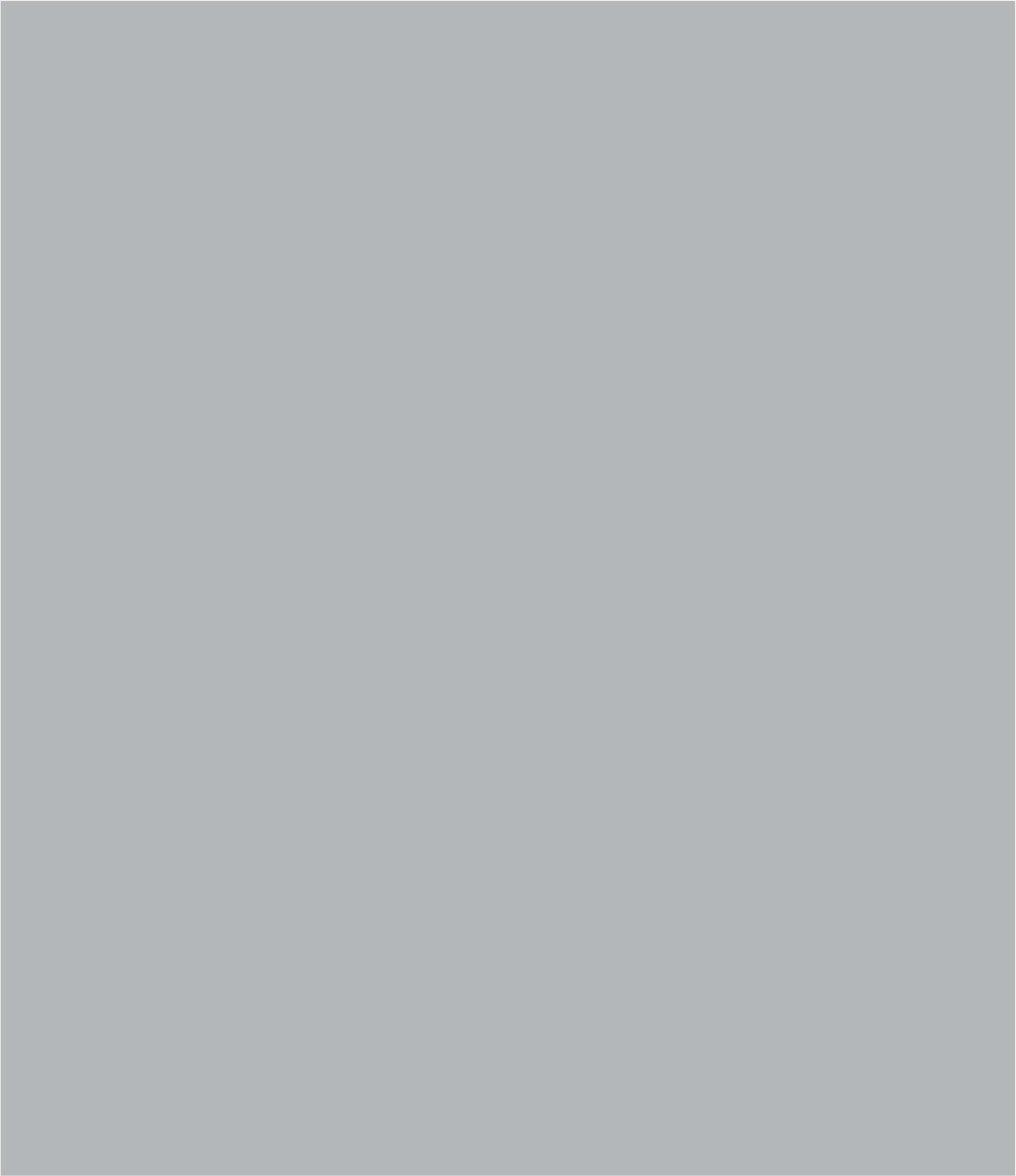
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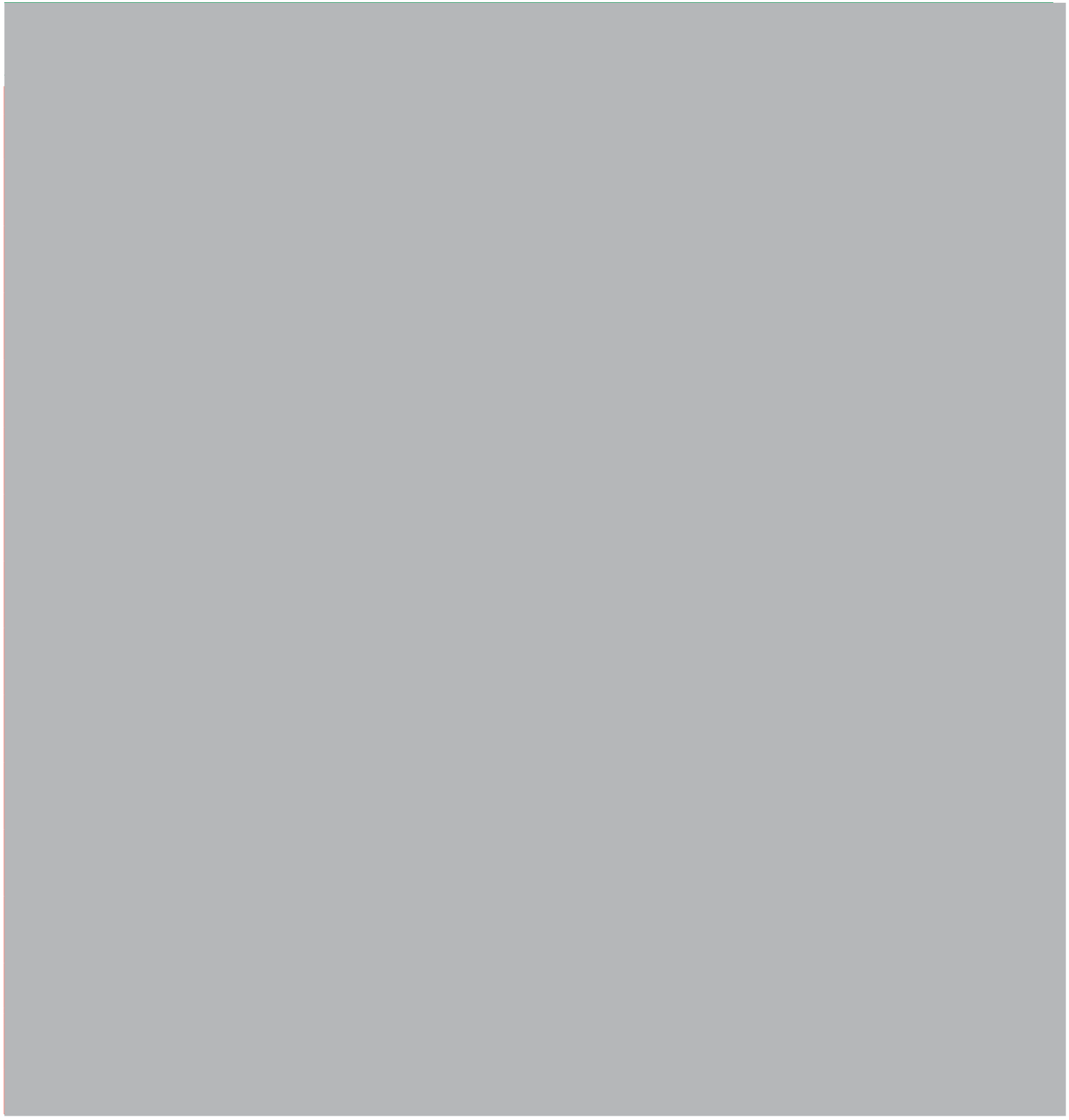
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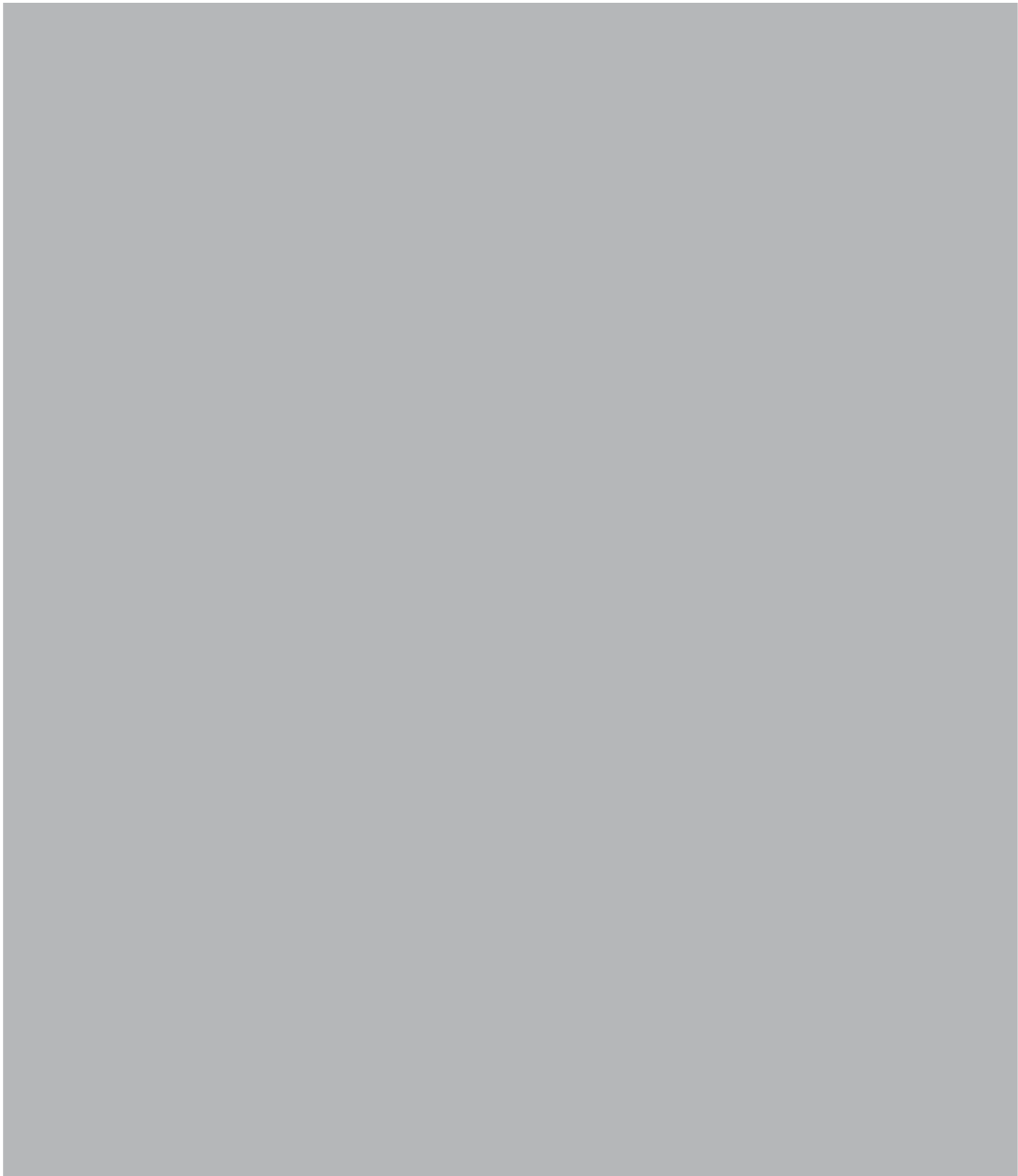
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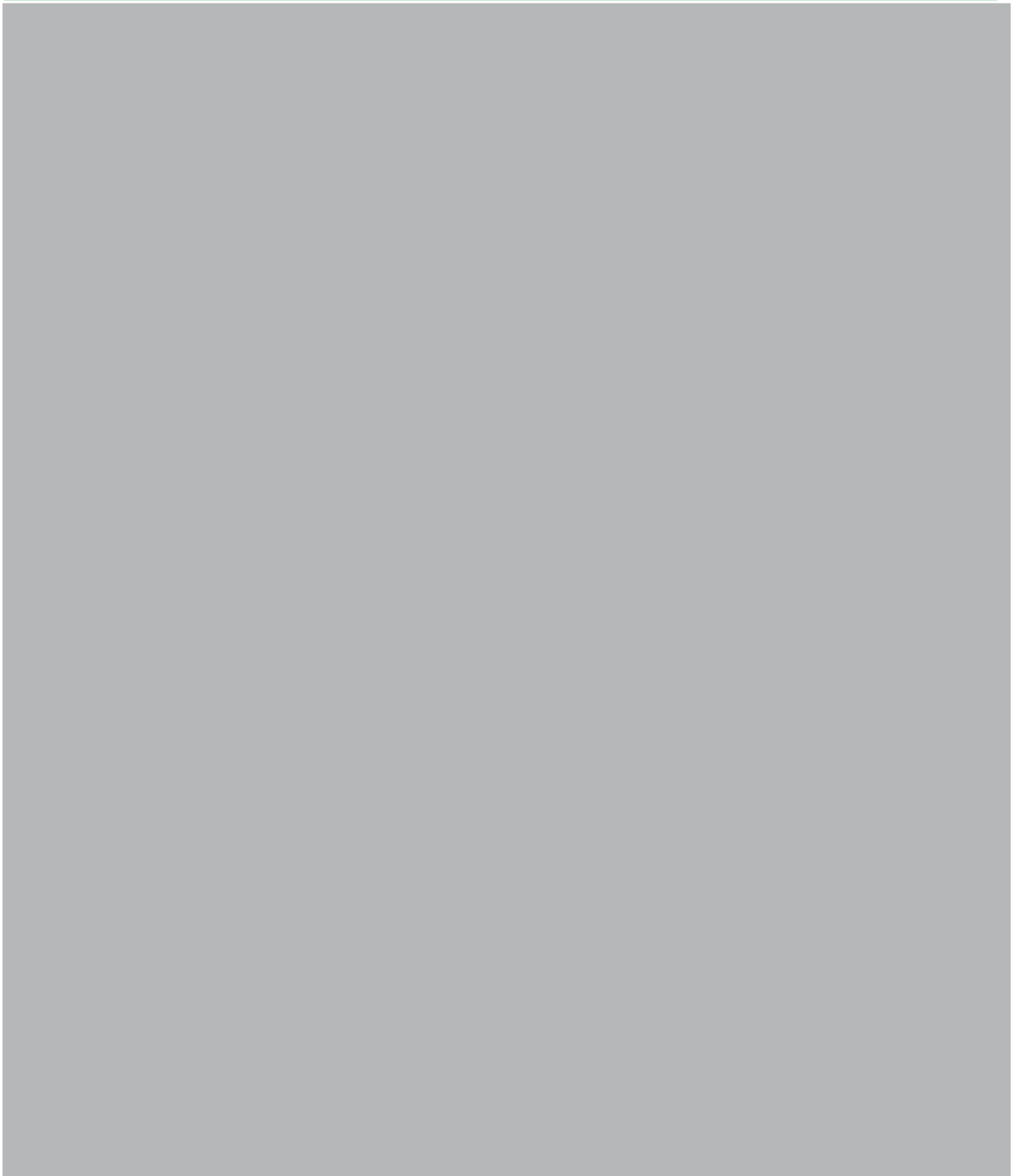
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Client: ERM-Northeast  
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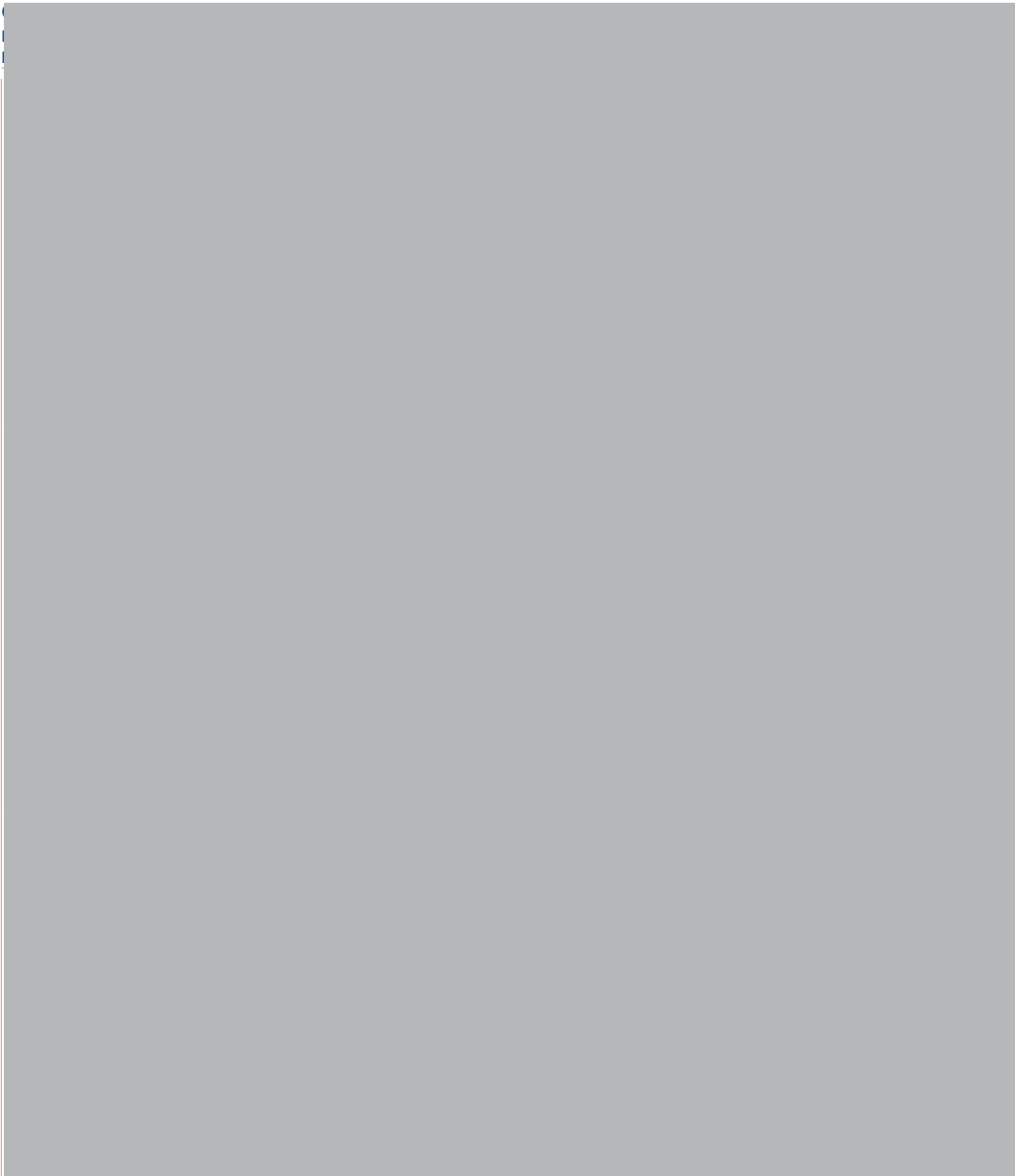
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Job ID: 480-158129-1

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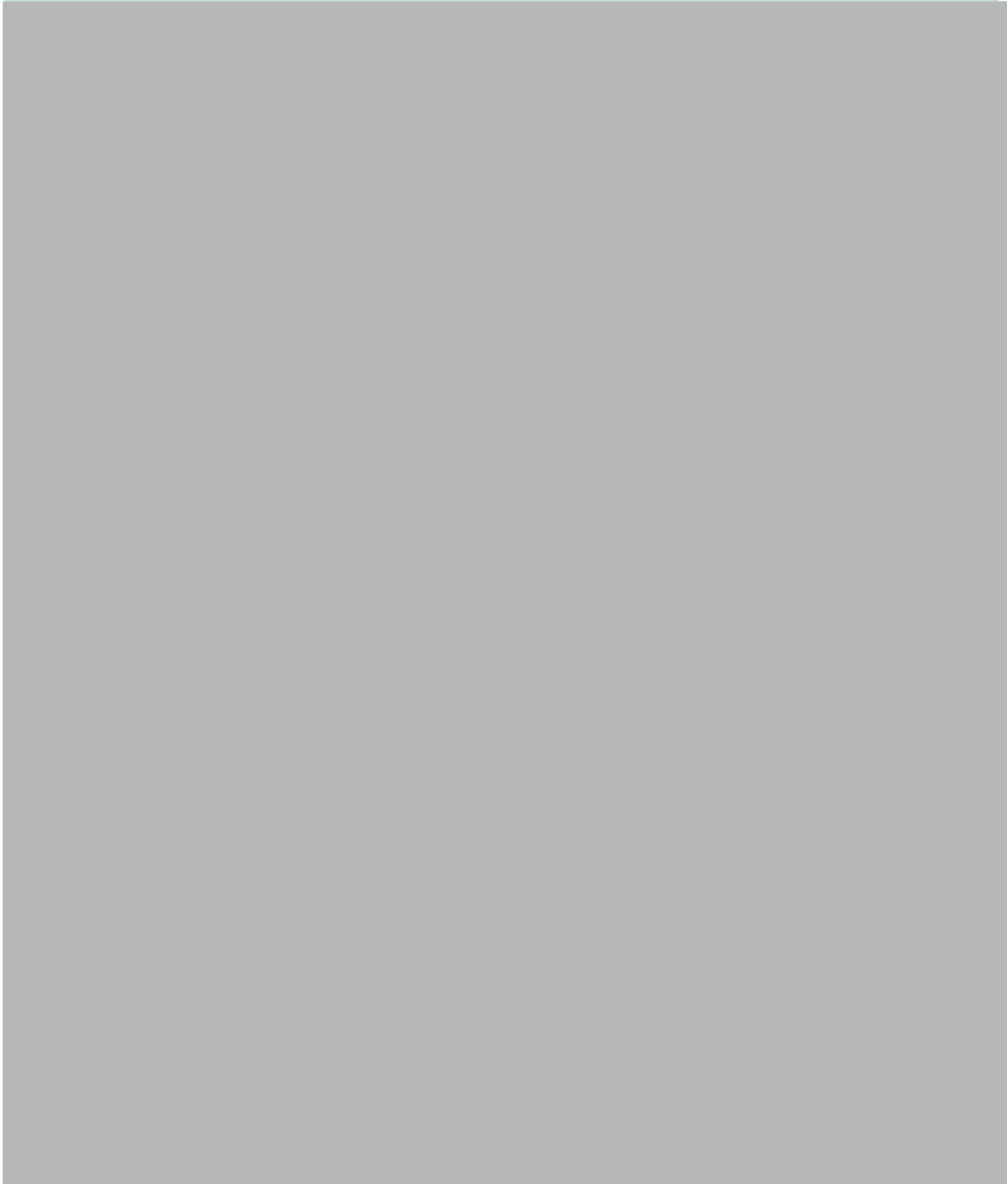
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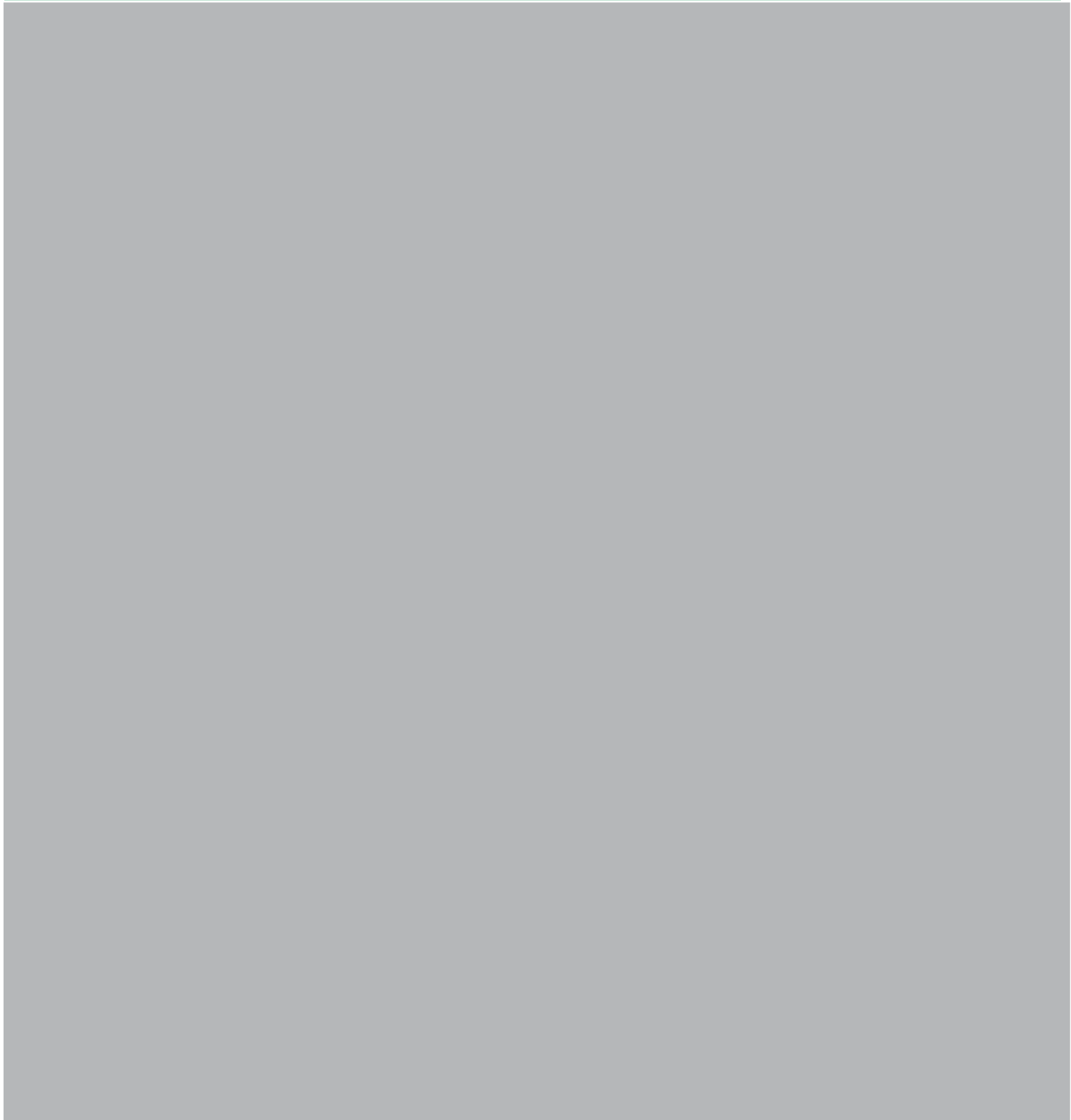
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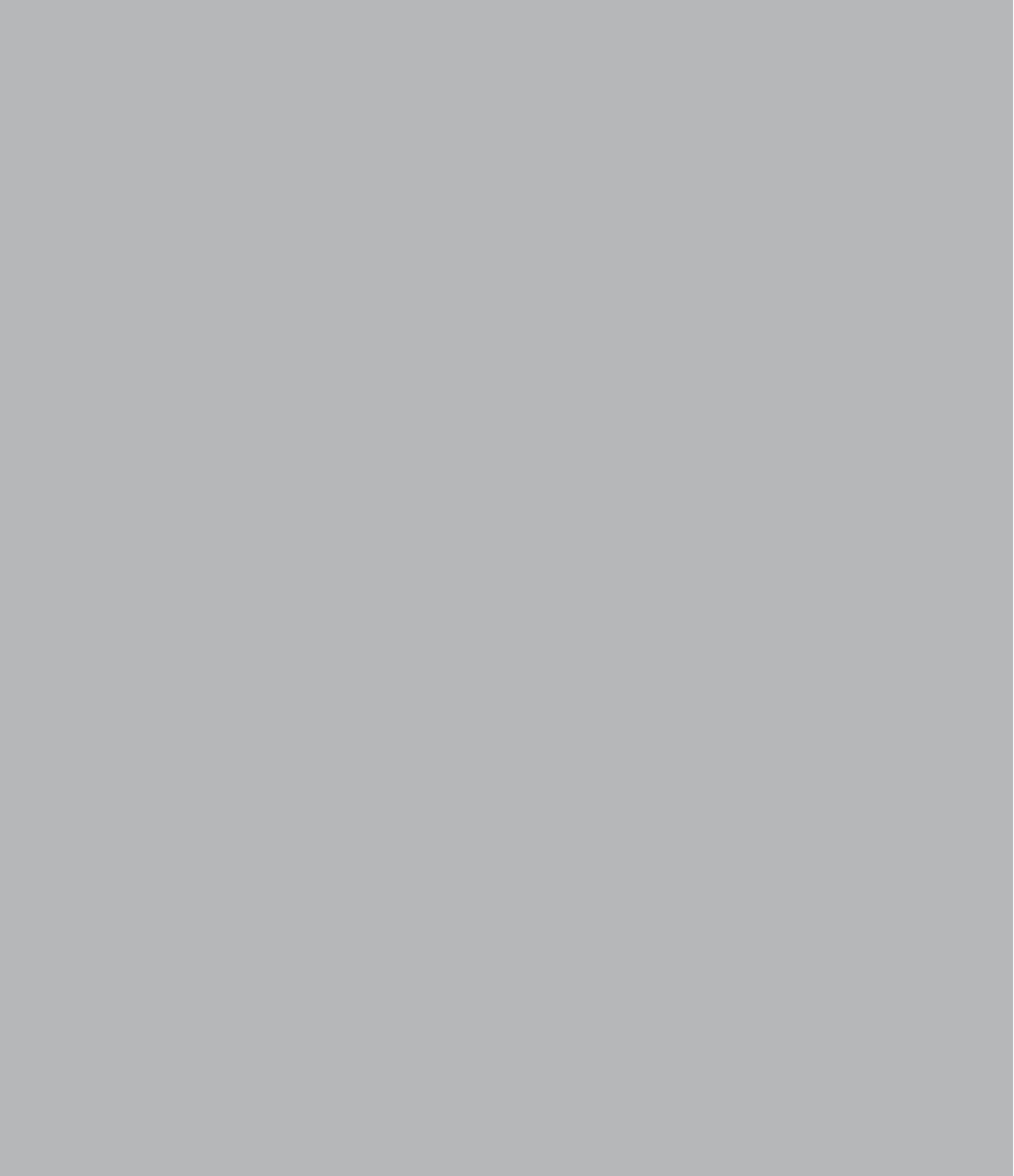
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Job ID: 480-158129-1

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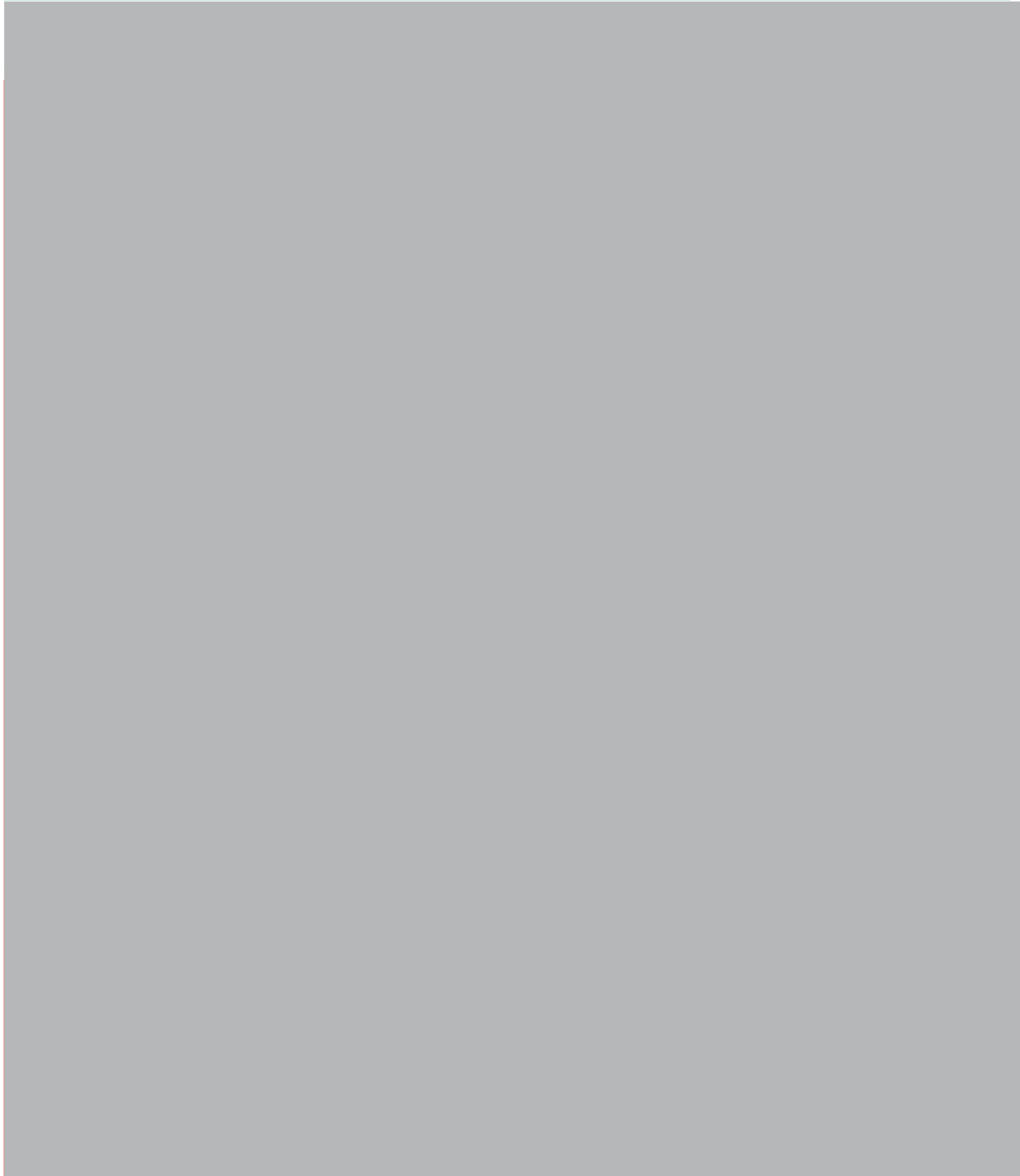
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# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1



**Client Sample ID: MW-217M-20190821-01**

**Lab Sample ID: 480-158129-12**

Date Collected: 08/21/19 09:50

Matrix: Water

Date Received: 08/24/19 09:00

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/28/19 17:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/28/19 17:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/28/19 17:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/28/19 17:37	1
<b>1,1-Dichloroethane</b>	<b>1.2</b>		1.0		ug/L			08/28/19 17:37	1
1,1-Dichloroethene	ND		1.0		ug/L			08/28/19 17:37	1
1,1-Dichloropropene	ND		1.0		ug/L			08/28/19 17:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/28/19 17:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/28/19 17:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/28/19 17:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/28/19 17:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			08/28/19 17:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/28/19 17:37	1
1,2-Dichloroethane	ND		1.0		ug/L			08/28/19 17:37	1
1,2-Dichloropropane	ND		1.0		ug/L			08/28/19 17:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/28/19 17:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/28/19 17:37	1
1,3-Dichloropropane	ND		1.0		ug/L			08/28/19 17:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/28/19 17:37	1
1,4-Dioxane	ND *		50		ug/L			08/28/19 17:37	1
2,2-Dichloropropane	ND		1.0		ug/L			08/28/19 17:37	1
2-Butanone (MEK)	ND *		10		ug/L			08/28/19 17:37	1
2-Chlorotoluene	ND		1.0		ug/L			08/28/19 17:37	1
2-Hexanone	ND		10		ug/L			08/28/19 17:37	1
4-Chlorotoluene	ND		1.0		ug/L			08/28/19 17:37	1
4-Isopropyltoluene	ND		1.0		ug/L			08/28/19 17:37	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/28/19 17:37	1
Acetone	ND		50		ug/L			08/28/19 17:37	1
Benzene	ND		1.0		ug/L			08/28/19 17:37	1
Bromobenzene	ND		1.0		ug/L			08/28/19 17:37	1
Bromoform	ND		1.0		ug/L			08/28/19 17:37	1
Bromomethane	ND		2.0		ug/L			08/28/19 17:37	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

**Client Sample ID: MW-217M-20190821-01**

**Lab Sample ID: 480-158129-12**

Date Collected: 08/21/19 09:50

Matrix: Water

Date Received: 08/24/19 09:00

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			08/28/19 17:37	1
Carbon tetrachloride	ND		1.0		ug/L			08/28/19 17:37	1
Chlorobenzene	ND		1.0		ug/L			08/28/19 17:37	1
Chlorobromomethane	ND		1.0		ug/L			08/28/19 17:37	1
Chlorodibromomethane	ND		0.50		ug/L			08/28/19 17:37	1
Chloroethane	ND		2.0		ug/L			08/28/19 17:37	1
Chloroform	ND		1.0		ug/L			08/28/19 17:37	1
Chloromethane	ND		2.0		ug/L			08/28/19 17:37	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/28/19 17:37	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			08/28/19 17:37	1
Dichlorobromomethane	ND		0.50		ug/L			08/28/19 17:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/28/19 17:37	1
Ethyl ether	ND		1.0		ug/L			08/28/19 17:37	1
Ethylbenzene	ND		1.0		ug/L			08/28/19 17:37	1
Ethylene Dibromide	ND		1.0		ug/L			08/28/19 17:37	1
Hexachlorobutadiene	ND		0.40		ug/L			08/28/19 17:37	1
Isopropyl ether	ND		10		ug/L			08/28/19 17:37	1
Isopropylbenzene	ND		1.0		ug/L			08/28/19 17:37	1
<b>Methyl tert-butyl ether</b>	<b>48</b>		1.0		ug/L			08/28/19 17:37	1
Methylene Chloride	ND		1.0		ug/L			08/28/19 17:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			08/28/19 17:37	1
Naphthalene	ND		5.0		ug/L			08/28/19 17:37	1
n-Butylbenzene	ND		1.0		ug/L			08/28/19 17:37	1
N-Propylbenzene	ND		1.0		ug/L			08/28/19 17:37	1
o-Xylene	ND		1.0		ug/L			08/28/19 17:37	1
sec-Butylbenzene	ND		1.0		ug/L			08/28/19 17:37	1
Styrene	ND		1.0		ug/L			08/28/19 17:37	1
<b>Tert-amyl methyl ether</b>	<b>22</b>		5.0		ug/L			08/28/19 17:37	1
Tert-butyl ethyl ether	ND		5.0		ug/L			08/28/19 17:37	1
tert-Butylbenzene	ND		1.0		ug/L			08/28/19 17:37	1
Tetrachloroethene	ND		1.0		ug/L			08/28/19 17:37	1
Tetrahydrofuran	ND		10		ug/L			08/28/19 17:37	1
Toluene	ND		1.0		ug/L			08/28/19 17:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/28/19 17:37	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			08/28/19 17:37	1
<b>Trichloroethene</b>	<b>3.9</b>		1.0		ug/L			08/28/19 17:37	1
Trichlorofluoromethane	ND		1.0		ug/L			08/28/19 17:37	1
Vinyl chloride	ND		1.0		ug/L			08/28/19 17:37	1
Dibromomethane	ND		1.0		ug/L			08/28/19 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		08/28/19 17:37	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		08/28/19 17:37	1
4-Bromofluorobenzene (Surr)	99		70 - 130		08/28/19 17:37	1

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

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# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

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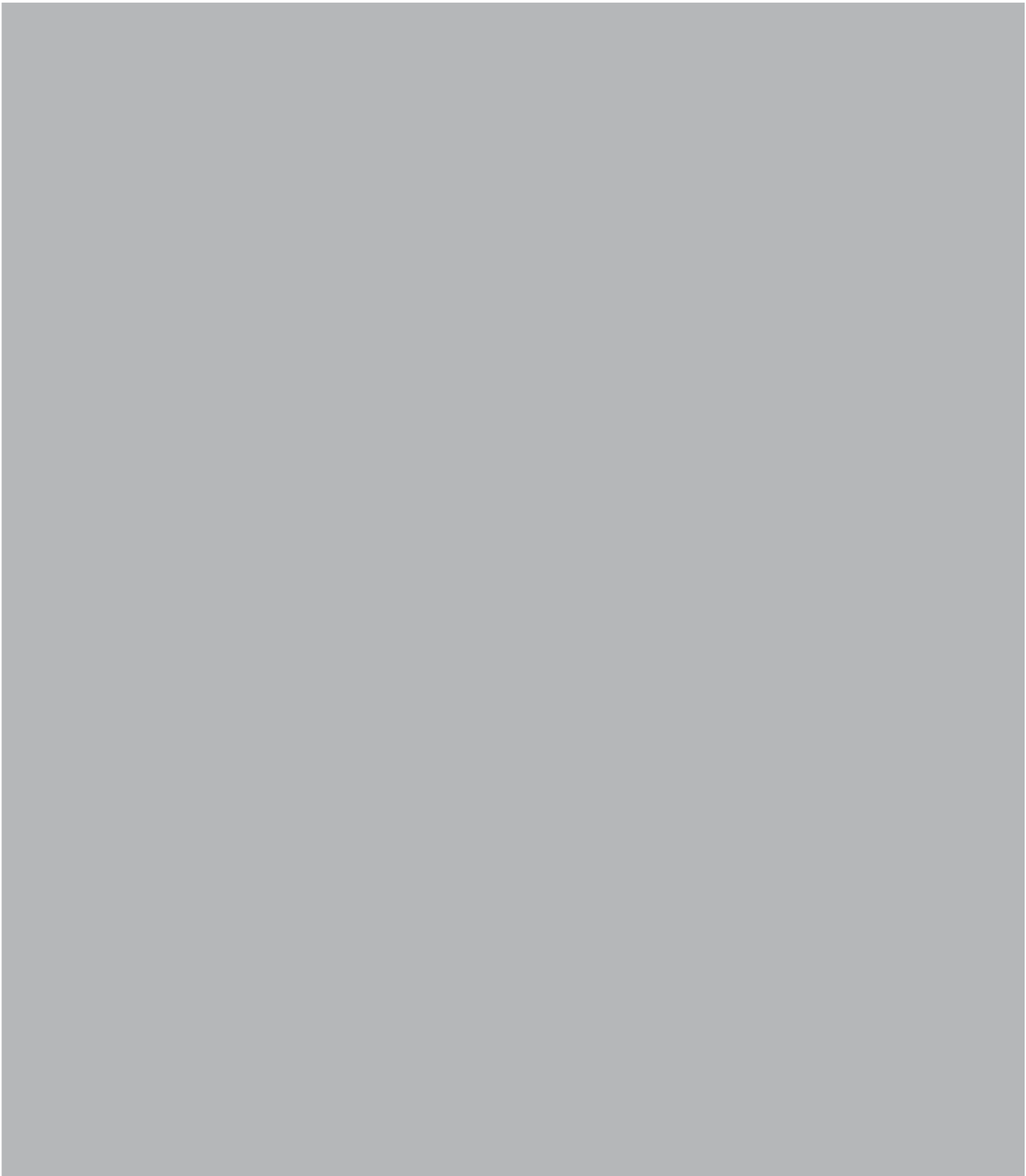
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# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

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# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

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**Client Sample ID: TB -001-20190821-01**

**Lab Sample ID: 480-158129-15**

Date Collected: 08/21/19 00:00

Matrix: Water

Date Received: 08/24/19 09:00

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/28/19 18:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/28/19 18:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/28/19 18:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/28/19 18:49	1
1,1-Dichloroethane	ND		1.0		ug/L			08/28/19 18:49	1
1,1-Dichloroethene	ND		1.0		ug/L			08/28/19 18:49	1
1,1-Dichloropropene	ND		1.0		ug/L			08/28/19 18:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/28/19 18:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/28/19 18:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/28/19 18:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/28/19 18:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			08/28/19 18:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/28/19 18:49	1
1,2-Dichloroethane	ND		1.0		ug/L			08/28/19 18:49	1
1,2-Dichloropropane	ND		1.0		ug/L			08/28/19 18:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/28/19 18:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/28/19 18:49	1
1,3-Dichloropropane	ND		1.0		ug/L			08/28/19 18:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/28/19 18:49	1
1,4-Dioxane	ND *		50		ug/L			08/28/19 18:49	1
2,2-Dichloropropane	ND		1.0		ug/L			08/28/19 18:49	1
2-Butanone (MEK)	ND *		10		ug/L			08/28/19 18:49	1
2-Chlorotoluene	ND		1.0		ug/L			08/28/19 18:49	1
2-Hexanone	ND		10		ug/L			08/28/19 18:49	1
4-Chlorotoluene	ND		1.0		ug/L			08/28/19 18:49	1
4-Isopropyltoluene	ND		1.0		ug/L			08/28/19 18:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/28/19 18:49	1
Acetone	ND		50		ug/L			08/28/19 18:49	1
Benzene	ND		1.0		ug/L			08/28/19 18:49	1
Bromobenzene	ND		1.0		ug/L			08/28/19 18:49	1
Bromoform	ND		1.0		ug/L			08/28/19 18:49	1
Bromomethane	ND		2.0		ug/L			08/28/19 18:49	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

**Client Sample ID: TB -001-20190821-01**

**Lab Sample ID: 480-158129-15**

Date Collected: 08/21/19 00:00

Matrix: Water

Date Received: 08/24/19 09:00

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			08/28/19 18:49	1
Carbon tetrachloride	ND		1.0		ug/L			08/28/19 18:49	1
Chlorobenzene	ND		1.0		ug/L			08/28/19 18:49	1
Chlorobromomethane	ND		1.0		ug/L			08/28/19 18:49	1
Chlorodibromomethane	ND		0.50		ug/L			08/28/19 18:49	1
Chloroethane	ND		2.0		ug/L			08/28/19 18:49	1
Chloroform	ND		1.0		ug/L			08/28/19 18:49	1
Chloromethane	ND		2.0		ug/L			08/28/19 18:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/28/19 18:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			08/28/19 18:49	1
Dichlorobromomethane	ND		0.50		ug/L			08/28/19 18:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/28/19 18:49	1
Ethyl ether	ND		1.0		ug/L			08/28/19 18:49	1
Ethylbenzene	ND		1.0		ug/L			08/28/19 18:49	1
Ethylene Dibromide	ND		1.0		ug/L			08/28/19 18:49	1
Hexachlorobutadiene	ND		0.40		ug/L			08/28/19 18:49	1
Isopropyl ether	ND		10		ug/L			08/28/19 18:49	1
Isopropylbenzene	ND		1.0		ug/L			08/28/19 18:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			08/28/19 18:49	1
Methylene Chloride	ND		1.0		ug/L			08/28/19 18:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			08/28/19 18:49	1
Naphthalene	ND		5.0		ug/L			08/28/19 18:49	1
n-Butylbenzene	ND		1.0		ug/L			08/28/19 18:49	1
N-Propylbenzene	ND		1.0		ug/L			08/28/19 18:49	1
o-Xylene	ND		1.0		ug/L			08/28/19 18:49	1
sec-Butylbenzene	ND		1.0		ug/L			08/28/19 18:49	1
Styrene	ND		1.0		ug/L			08/28/19 18:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			08/28/19 18:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			08/28/19 18:49	1
tert-Butylbenzene	ND		1.0		ug/L			08/28/19 18:49	1
Tetrachloroethene	ND		1.0		ug/L			08/28/19 18:49	1
Tetrahydrofuran	ND		10		ug/L			08/28/19 18:49	1
Toluene	ND		1.0		ug/L			08/28/19 18:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/28/19 18:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			08/28/19 18:49	1
Trichloroethene	ND		1.0		ug/L			08/28/19 18:49	1
Trichlorofluoromethane	ND		1.0		ug/L			08/28/19 18:49	1
Vinyl chloride	ND		1.0		ug/L			08/28/19 18:49	1
Dibromomethane	ND		1.0		ug/L			08/28/19 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		08/28/19 18:49	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		08/28/19 18:49	1
4-Bromofluorobenzene (Surr)	104		70 - 130		08/28/19 18:49	1

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

**Client Sample ID: PDB-BLANK -20190822-01**

**Lab Sample ID: 480-158129-16**

Date Collected: 08/22/19 13:20

Matrix: Water

Date Received: 08/24/19 09:00

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/28/19 19:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/28/19 19:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/28/19 19:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/28/19 19:13	1
1,1-Dichloroethane	ND		1.0		ug/L			08/28/19 19:13	1
1,1-Dichloroethene	ND		1.0		ug/L			08/28/19 19:13	1
1,1-Dichloropropene	ND		1.0		ug/L			08/28/19 19:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/28/19 19:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/28/19 19:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/28/19 19:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/28/19 19:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			08/28/19 19:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/28/19 19:13	1
1,2-Dichloroethane	ND		1.0		ug/L			08/28/19 19:13	1
1,2-Dichloropropane	ND		1.0		ug/L			08/28/19 19:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/28/19 19:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/28/19 19:13	1
1,3-Dichloropropane	ND		1.0		ug/L			08/28/19 19:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/28/19 19:13	1
1,4-Dioxane	ND *		50		ug/L			08/28/19 19:13	1
2,2-Dichloropropane	ND		1.0		ug/L			08/28/19 19:13	1
2-Butanone (MEK)	ND *		10		ug/L			08/28/19 19:13	1
2-Chlorotoluene	ND		1.0		ug/L			08/28/19 19:13	1
2-Hexanone	ND		10		ug/L			08/28/19 19:13	1
4-Chlorotoluene	ND		1.0		ug/L			08/28/19 19:13	1
4-Isopropyltoluene	ND		1.0		ug/L			08/28/19 19:13	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/28/19 19:13	1
Acetone	ND		50		ug/L			08/28/19 19:13	1
Benzene	ND		1.0		ug/L			08/28/19 19:13	1
Bromobenzene	ND		1.0		ug/L			08/28/19 19:13	1
Bromoform	ND		1.0		ug/L			08/28/19 19:13	1
Bromomethane	ND		2.0		ug/L			08/28/19 19:13	1
Carbon disulfide	ND		10		ug/L			08/28/19 19:13	1
Carbon tetrachloride	ND		1.0		ug/L			08/28/19 19:13	1
Chlorobenzene	ND		1.0		ug/L			08/28/19 19:13	1
Chlorobromomethane	ND		1.0		ug/L			08/28/19 19:13	1
Chlorodibromomethane	ND		0.50		ug/L			08/28/19 19:13	1
Chloroethane	ND		2.0		ug/L			08/28/19 19:13	1
Chloroform	ND		1.0		ug/L			08/28/19 19:13	1
Chloromethane	ND		2.0		ug/L			08/28/19 19:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/28/19 19:13	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			08/28/19 19:13	1
Dichlorobromomethane	ND		0.50		ug/L			08/28/19 19:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/28/19 19:13	1
Ethyl ether	ND		1.0		ug/L			08/28/19 19:13	1
Ethylbenzene	ND		1.0		ug/L			08/28/19 19:13	1
Ethylene Dibromide	ND		1.0		ug/L			08/28/19 19:13	1
Hexachlorobutadiene	ND		0.40		ug/L			08/28/19 19:13	1
Isopropyl ether	ND		10		ug/L			08/28/19 19:13	1

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

**Client Sample ID: PDB-BLANK -20190822-01**

**Lab Sample ID: 480-158129-16**

Date Collected: 08/22/19 13:20

Matrix: Water

Date Received: 08/24/19 09:00

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			08/28/19 19:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			08/28/19 19:13	1
Methylene Chloride	ND		1.0		ug/L			08/28/19 19:13	1
m-Xylene & p-Xylene	ND		2.0		ug/L			08/28/19 19:13	1
Naphthalene	ND		5.0		ug/L			08/28/19 19:13	1
n-Butylbenzene	ND		1.0		ug/L			08/28/19 19:13	1
N-Propylbenzene	ND		1.0		ug/L			08/28/19 19:13	1
o-Xylene	ND		1.0		ug/L			08/28/19 19:13	1
sec-Butylbenzene	ND		1.0		ug/L			08/28/19 19:13	1
Styrene	ND		1.0		ug/L			08/28/19 19:13	1
Tert-amyl methyl ether	ND		5.0		ug/L			08/28/19 19:13	1
Tert-butyl ethyl ether	ND		5.0		ug/L			08/28/19 19:13	1
tert-Butylbenzene	ND		1.0		ug/L			08/28/19 19:13	1
Tetrachloroethene	ND		1.0		ug/L			08/28/19 19:13	1
Tetrahydrofuran	ND		10		ug/L			08/28/19 19:13	1
Toluene	ND		1.0		ug/L			08/28/19 19:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/28/19 19:13	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			08/28/19 19:13	1
Trichloroethene	ND		1.0		ug/L			08/28/19 19:13	1
Trichlorofluoromethane	ND		1.0		ug/L			08/28/19 19:13	1
Vinyl chloride	ND		1.0		ug/L			08/28/19 19:13	1
Dibromomethane	ND		1.0		ug/L			08/28/19 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		08/28/19 19:13	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		08/28/19 19:13	1
4-Bromofluorobenzene (Surr)	104		70 - 130		08/28/19 19:13	1

# Surrogate Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

## Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	DCA (70-130)	BFB (70-130)
480-158129-1	MW-1001M-20190821-01	103	101	107
480-158129-2	MW-1002M-20190821-01	100	101	103
480-158129-3	MW-1003-20190821-01	101	105	106
480-158129-4	MW-1005-20190821-01	100	103	102
480-158129-5	MW-1010D-20190821-01	96	101	99
480-158129-6	MW-1010M-20190821-01	101	101	105
480-158129-7	MW-1014-20190821-01	101	104	104
480-158129-8	MW-1015D-20190821-01	101	101	102
480-158129-9	MW-1028-20190821-01	100	102	104
480-158129-10	MW-1032-20190822-01	103	103	103
480-158129-11	MW-1034-20190821-01	97	101	98
480-158129-12	MW-217M-20190821-01	100	102	99
480-158129-13	DUP-001-20190821-01	99	101	102
480-158129-14	DUP-002-20190821-01	101	102	102
480-158129-15	TB -001-20190821-01	102	101	104
480-158129-16	PDB-BLANK -20190822-01	103	103	104
LCS 480-489150/5	Lab Control Sample	98	98	105
LCSD 480-489150/6	Lab Control Sample Dup	98	98	105
MB 480-489150/8	Method Blank	100	100	102

### Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

## Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-489150/8

Matrix: Water

Analysis Batch: 489150

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/28/19 12:29	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/28/19 12:29	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/28/19 12:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/28/19 12:29	1
1,1-Dichloroethane	ND		1.0		ug/L			08/28/19 12:29	1
1,1-Dichloroethene	ND		1.0		ug/L			08/28/19 12:29	1
1,1-Dichloropropene	ND		1.0		ug/L			08/28/19 12:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/28/19 12:29	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/28/19 12:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/28/19 12:29	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/28/19 12:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			08/28/19 12:29	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/28/19 12:29	1
1,2-Dichloroethane	ND		1.0		ug/L			08/28/19 12:29	1
1,2-Dichloropropane	ND		1.0		ug/L			08/28/19 12:29	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/28/19 12:29	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/28/19 12:29	1
1,3-Dichloropropane	ND		1.0		ug/L			08/28/19 12:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/28/19 12:29	1
1,4-Dioxane	ND		50		ug/L			08/28/19 12:29	1
2,2-Dichloropropane	ND		1.0		ug/L			08/28/19 12:29	1
2-Butanone (MEK)	ND		10		ug/L			08/28/19 12:29	1
2-Chlorotoluene	ND		1.0		ug/L			08/28/19 12:29	1
2-Hexanone	ND		10		ug/L			08/28/19 12:29	1
4-Chlorotoluene	ND		1.0		ug/L			08/28/19 12:29	1
4-Isopropyltoluene	ND		1.0		ug/L			08/28/19 12:29	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/28/19 12:29	1
Acetone	ND		50		ug/L			08/28/19 12:29	1
Benzene	ND		1.0		ug/L			08/28/19 12:29	1
Bromobenzene	ND		1.0		ug/L			08/28/19 12:29	1
Bromoform	ND		1.0		ug/L			08/28/19 12:29	1
Bromomethane	ND		2.0		ug/L			08/28/19 12:29	1
Carbon disulfide	ND		10		ug/L			08/28/19 12:29	1
Carbon tetrachloride	ND		1.0		ug/L			08/28/19 12:29	1
Chlorobenzene	ND		1.0		ug/L			08/28/19 12:29	1
Chlorobromomethane	ND		1.0		ug/L			08/28/19 12:29	1
Chlorodibromomethane	ND		0.50		ug/L			08/28/19 12:29	1
Chloroethane	ND		2.0		ug/L			08/28/19 12:29	1
Chloroform	ND		1.0		ug/L			08/28/19 12:29	1
Chloromethane	ND		2.0		ug/L			08/28/19 12:29	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/28/19 12:29	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			08/28/19 12:29	1
Dichlorobromomethane	ND		0.50		ug/L			08/28/19 12:29	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/28/19 12:29	1
Ethyl ether	ND		1.0		ug/L			08/28/19 12:29	1
Ethylbenzene	ND		1.0		ug/L			08/28/19 12:29	1
Ethylene Dibromide	ND		1.0		ug/L			08/28/19 12:29	1
Hexachlorobutadiene	ND		0.40		ug/L			08/28/19 12:29	1

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-489150/8

Matrix: Water

Analysis Batch: 489150

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			08/28/19 12:29	1
Isopropylbenzene	ND		1.0		ug/L			08/28/19 12:29	1
Methyl tert-butyl ether	ND		1.0		ug/L			08/28/19 12:29	1
Methylene Chloride	ND		1.0		ug/L			08/28/19 12:29	1
m-Xylene & p-Xylene	ND		2.0		ug/L			08/28/19 12:29	1
Naphthalene	ND		5.0		ug/L			08/28/19 12:29	1
n-Butylbenzene	ND		1.0		ug/L			08/28/19 12:29	1
N-Propylbenzene	ND		1.0		ug/L			08/28/19 12:29	1
o-Xylene	ND		1.0		ug/L			08/28/19 12:29	1
sec-Butylbenzene	ND		1.0		ug/L			08/28/19 12:29	1
Styrene	ND		1.0		ug/L			08/28/19 12:29	1
Tert-amyl methyl ether	ND		5.0		ug/L			08/28/19 12:29	1
Tert-butyl ethyl ether	ND		5.0		ug/L			08/28/19 12:29	1
tert-Butylbenzene	ND		1.0		ug/L			08/28/19 12:29	1
Tetrachloroethene	ND		1.0		ug/L			08/28/19 12:29	1
Tetrahydrofuran	ND		10		ug/L			08/28/19 12:29	1
Toluene	ND		1.0		ug/L			08/28/19 12:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/28/19 12:29	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			08/28/19 12:29	1
Trichloroethene	ND		1.0		ug/L			08/28/19 12:29	1
Trichlorofluoromethane	ND		1.0		ug/L			08/28/19 12:29	1
Vinyl chloride	ND		1.0		ug/L			08/28/19 12:29	1
Dibromomethane	ND		1.0		ug/L			08/28/19 12:29	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	100		70 - 130		08/28/19 12:29	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		08/28/19 12:29	1
4-Bromofluorobenzene (Surr)	102		70 - 130		08/28/19 12:29	1

Lab Sample ID: LCS 480-489150/5

Matrix: Water

Analysis Batch: 489150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.3		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	25.0	20.8		ug/L		83	70 - 130
1,1,2-Trichloroethane	25.0	22.0		ug/L		88	70 - 130
1,1-Dichloroethane	25.0	23.7		ug/L		95	70 - 130
1,1-Dichloroethene	25.0	23.6		ug/L		94	70 - 130
1,1-Dichloropropene	25.0	23.3		ug/L		93	70 - 130
1,2,3-Trichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,2,3-Trichloropropane	25.0	21.8		ug/L		87	70 - 130
1,2,4-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	25.0	21.6		ug/L		86	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	70 - 130
1,2-Dichlorobenzene	25.0	21.8		ug/L		87	70 - 130
1,2-Dichloroethane	25.0	21.3		ug/L		85	70 - 130

Eurofins TestAmerica, Buffalo



# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-489150/5

Matrix: Water

Analysis Batch: 489150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	25.0	22.0		ug/L		88	70 - 130
1,3-Dichlorobenzene	25.0	21.6		ug/L		86	70 - 130
1,3-Dichloropropane	25.0	21.5		ug/L		86	70 - 130
1,4-Dichlorobenzene	25.0	21.0		ug/L		84	70 - 130
1,4-Dioxane	500	621		ug/L		124	70 - 130
2,2-Dichloropropane	25.0	23.2		ug/L		93	70 - 130
2-Butanone (MEK)	125	222	*	ug/L		177	70 - 130
2-Chlorotoluene	25.0	22.6		ug/L		90	70 - 130
2-Hexanone	125	119		ug/L		95	70 - 130
4-Chlorotoluene	25.0	21.0		ug/L		84	70 - 130
4-Isopropyltoluene	25.0	22.7		ug/L		91	70 - 130
4-Methyl-2-pentanone (MIBK)	125	117		ug/L		93	70 - 130
Acetone	125	144		ug/L		115	70 - 130
Benzene	25.0	22.5		ug/L		90	70 - 130
Bromobenzene	25.0	21.9		ug/L		88	70 - 130
Bromoform	25.0	23.3		ug/L		93	70 - 130
Bromomethane	25.0	24.2		ug/L		97	70 - 130
Carbon disulfide	25.0	22.9		ug/L		91	70 - 130
Carbon tetrachloride	25.0	24.1		ug/L		96	70 - 130
Chlorobenzene	25.0	22.1		ug/L		88	70 - 130
Chlorobromomethane	25.0	23.0		ug/L		92	70 - 130
Chlorodibromomethane	25.0	22.2		ug/L		89	70 - 130
Chloroethane	25.0	23.7		ug/L		95	70 - 130
Chloroform	25.0	20.8		ug/L		83	70 - 130
Chloromethane	25.0	24.2		ug/L		97	70 - 130
cis-1,2-Dichloroethene	25.0	22.8		ug/L		91	70 - 130
cis-1,3-Dichloropropene	25.0	23.1		ug/L		93	70 - 130
Dichlorobromomethane	25.0	22.7		ug/L		91	70 - 130
Dichlorodifluoromethane	25.0	29.9		ug/L		120	70 - 130
Ethyl ether	25.0	23.2		ug/L		93	70 - 130
Ethylbenzene	25.0	21.9		ug/L		88	70 - 130
Ethylene Dibromide	25.0	22.1		ug/L		88	70 - 130
Hexachlorobutadiene	25.0	24.4		ug/L		97	70 - 130
Isopropyl ether	25.0	22.9		ug/L		91	70 - 130
Isopropylbenzene	25.0	21.9		ug/L		88	70 - 130
Methyl tert-butyl ether	25.0	22.3		ug/L		89	70 - 130
Methylene Chloride	25.0	23.4		ug/L		94	70 - 130
m-Xylene & p-Xylene	25.0	22.6		ug/L		90	70 - 130
Naphthalene	25.0	24.4		ug/L		98	70 - 130
n-Butylbenzene	25.0	21.7		ug/L		87	70 - 130
N-Propylbenzene	25.0	21.4		ug/L		86	70 - 130
o-Xylene	25.0	22.3		ug/L		89	70 - 130
sec-Butylbenzene	25.0	22.4		ug/L		90	70 - 130
Styrene	25.0	23.0		ug/L		92	70 - 130
Tert-amyl methyl ether	25.0	24.5		ug/L		98	70 - 130
Tert-butyl ethyl ether	25.0	21.8		ug/L		87	70 - 130
tert-Butylbenzene	25.0	21.8		ug/L		87	70 - 130
Tetrachloroethene	25.0	25.1		ug/L		100	70 - 130

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-489150/5

Matrix: Water

Analysis Batch: 489150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	65.0		ug/L		130	70 - 130
Toluene	25.0	21.2		ug/L		85	70 - 130
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	70 - 130
trans-1,3-Dichloropropene	25.0	21.7		ug/L		87	70 - 130
Trichloroethene	25.0	23.3		ug/L		93	70 - 130
Trichlorofluoromethane	25.0	24.5		ug/L		98	70 - 130
Vinyl chloride	25.0	25.0		ug/L		100	70 - 130
Dibromomethane	25.0	22.4		ug/L		90	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 480-489150/6

Matrix: Water

Analysis Batch: 489150

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
1,1,1,2-Tetrachloroethane	25.0	22.9		ug/L		92	70 - 130	3	20
1,1,1-Trichloroethane	25.0	23.1		ug/L		93	70 - 130	1	20
1,1,1,2,2-Tetrachloroethane	25.0	21.8		ug/L		87	70 - 130	5	20
1,1,2-Trichloroethane	25.0	22.4		ug/L		90	70 - 130	2	20
1,1-Dichloroethane	25.0	23.9		ug/L		96	70 - 130	1	20
1,1-Dichloroethane	25.0	23.4		ug/L		94	70 - 130	1	20
1,1-Dichloropropene	25.0	23.4		ug/L		94	70 - 130	0	20
1,2,3-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 130	2	20
1,2,3-Trichloropropane	25.0	22.5		ug/L		90	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	22.3		ug/L		89	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	70 - 130	2	20
1,2-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130	3	20
1,2-Dichloroethane	25.0	21.6		ug/L		86	70 - 130	1	20
1,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130	0	20
1,3,5-Trimethylbenzene	25.0	22.3		ug/L		89	70 - 130	1	20
1,3-Dichlorobenzene	25.0	22.3		ug/L		89	70 - 130	3	20
1,3-Dichloropropane	25.0	21.9		ug/L		88	70 - 130	2	20
1,4-Dichlorobenzene	25.0	21.7		ug/L		87	70 - 130	3	20
1,4-Dioxane	500	680	*	ug/L		136	70 - 130	9	20
2,2-Dichloropropane	25.0	22.9		ug/L		92	70 - 130	1	20
2-Butanone (MEK)	125	215	*	ug/L		172	70 - 130	3	20
2-Chlorotoluene	25.0	22.9		ug/L		91	70 - 130	1	20
2-Hexanone	125	118		ug/L		95	70 - 130	0	20
4-Chlorotoluene	25.0	21.5		ug/L		86	70 - 130	2	20
4-Isopropyltoluene	25.0	23.0		ug/L		92	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	70 - 130	1	20
Acetone	125	128		ug/L		102	70 - 130	12	20
Benzene	25.0	22.5		ug/L		90	70 - 130	0	20

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-489150/6

Matrix: Water

Analysis Batch: 489150

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
Bromobenzene	25.0	22.5		ug/L		90	70 - 130	3	20
Bromoform	25.0	24.0		ug/L		96	70 - 130	3	20
Bromomethane	25.0	23.5		ug/L		94	70 - 130	3	20
Carbon disulfide	25.0	22.4		ug/L		89	70 - 130	2	20
Carbon tetrachloride	25.0	23.8		ug/L		95	70 - 130	1	20
Chlorobenzene	25.0	22.6		ug/L		90	70 - 130	2	20
Chlorobromomethane	25.0	23.7		ug/L		95	70 - 130	3	20
Chlorodibromomethane	25.0	22.8		ug/L		91	70 - 130	3	20
Chloroethane	25.0	22.3		ug/L		89	70 - 130	6	20
Chloroform	25.0	21.1		ug/L		84	70 - 130	1	20
Chloromethane	25.0	24.2		ug/L		97	70 - 130	0	20
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	23.2		ug/L		93	70 - 130	0	20
Dichlorobromomethane	25.0	22.6		ug/L		90	70 - 130	0	20
Dichlorodifluoromethane	25.0	30.5		ug/L		122	70 - 130	2	20
Ethyl ether	25.0	23.7		ug/L		95	70 - 130	2	20
Ethylbenzene	25.0	22.1		ug/L		88	70 - 130	1	20
Ethylene Dibromide	25.0	22.4		ug/L		90	70 - 130	1	20
Hexachlorobutadiene	25.0	24.4		ug/L		98	70 - 130	0	20
Isopropyl ether	25.0	23.1		ug/L		93	70 - 130	1	20
Isopropylbenzene	25.0	22.4		ug/L		90	70 - 130	2	20
Methyl tert-butyl ether	25.0	22.5		ug/L		90	70 - 130	1	20
Methylene Chloride	25.0	23.3		ug/L		93	70 - 130	1	20
m-Xylene & p-Xylene	25.0	22.9		ug/L		91	70 - 130	1	20
Naphthalene	25.0	24.4		ug/L		98	70 - 130	0	20
n-Butylbenzene	25.0	21.9		ug/L		88	70 - 130	1	20
N-Propylbenzene	25.0	21.7		ug/L		87	70 - 130	1	20
o-Xylene	25.0	22.6		ug/L		90	70 - 130	1	20
sec-Butylbenzene	25.0	22.4		ug/L		90	70 - 130	0	20
Styrene	25.0	23.0		ug/L		92	70 - 130	0	20
Tert-amyl methyl ether	25.0	24.6		ug/L		99	70 - 130	0	20
Tert-butyl ethyl ether	25.0	22.0		ug/L		88	70 - 130	1	20
tert-Butylbenzene	25.0	22.1		ug/L		88	70 - 130	1	20
Tetrachloroethene	25.0	26.2		ug/L		105	70 - 130	4	20
Tetrahydrofuran	50.0	63.9		ug/L		128	70 - 130	2	20
Toluene	25.0	21.7		ug/L		87	70 - 130	2	20
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	22.1		ug/L		89	70 - 130	2	20
Trichloroethene	25.0	24.0		ug/L		96	70 - 130	3	20
Trichlorofluoromethane	25.0	23.9		ug/L		96	70 - 130	2	20
Vinyl chloride	25.0	24.4		ug/L		98	70 - 130	2	20
Dibromomethane	25.0	22.8		ug/L		91	70 - 130	2	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130

# QC Association Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

## GC/MS VOA

### Analysis Batch: 489150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158129-12	MW-217M-20190821-01	Total/NA	Water	8260C	
480-158129-15	TB -001-20190821-01	Total/NA	Water	8260C	
480-158129-16	PDB-BLANK -20190822-01	Total/NA	Water	8260C	
MB 480-489150/8	Method Blank	Total/NA	Water	8260C	
LCS 480-489150/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-489150/6	Lab Control Sample Dup	Total/NA	Water	8260C	

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

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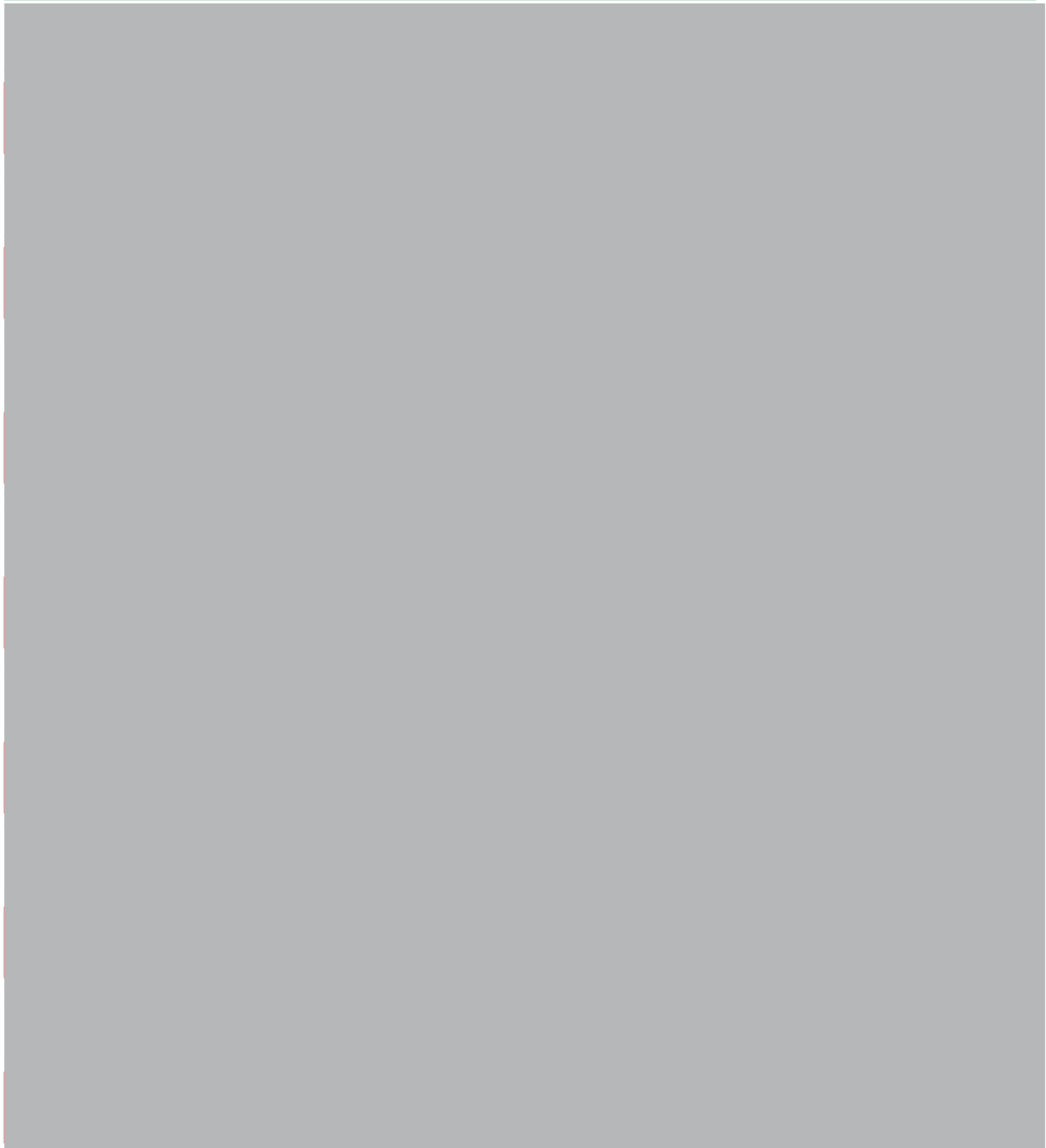
11

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# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

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**Client Sample ID: MW-217M-20190821-01**

**Lab Sample ID: 480-158129-12**

**Date Collected: 08/21/19 09:50**

**Matrix: Water**

**Date Received: 08/24/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	489150	08/28/19 17:37	BTP	TAL BUF



# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

**Client Sample ID: TB -001-20190821-01**

**Lab Sample ID: 480-158129-15**

Date Collected: 08/21/19 00:00

Matrix: Water

Date Received: 08/24/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	489150	08/28/19 18:49	BTP	TAL BUF

**Client Sample ID: PDB-BLANK -20190822-01**

**Lab Sample ID: 480-158129-16**

Date Collected: 08/22/19 13:20

Matrix: Water

Date Received: 08/24/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	489150	08/28/19 19:13	BTP	TAL BUF

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Accreditation/Certification Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

## Laboratory: Eurofins TestAmerica, Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
Arkansas DEQ	State Program	88-0686	07-06-20
California	State	2931	04-01-20
California	State Program	2931	04-01-20
Connecticut	State	PH-0568	09-30-20
Connecticut	State Program	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	03-31-20
Georgia	State Program	10026 (NY)	03-31-20
Georgia	State Program	956	03-31-20
Georgia (DW)	State	956	03-31-20
Illinois	NELAP	200003	09-30-19 *
Illinois	NELAP	200003	09-30-19 *
Iowa	State Program	374	02-28-21
Kansas	NELAP	E-10187	01-31-20
Kansas	NELAP	E-10187	01-31-20
Kentucky (DW)	State	90029	12-31-20
Kentucky (DW)	State Program	90029	12-31-19
Kentucky (WW)	State	KY90029	12-31-20
Kentucky (WW)	State Program	90029	12-31-19
Louisiana	NELAP	02031	06-30-20
Maine	State Program	NY00044	12-04-20
Maryland	State	294	03-31-20
Maryland	State Program	294	03-31-20
Massachusetts	State Program	M-NY044	06-30-20
Michigan	State Program	9937	03-31-20
Minnesota	NELAP	036-999-337	12-31-19
Minnesota	NELAP	1524384	12-31-19
New Hampshire	NELAP	2337	11-17-19
New Jersey	NELAP	NY455	06-30-20
New Jersey	NELAP	NY455	06-25-20
New York	NELAP	10026	03-31-20
New York	NELAP	10026	04-01-20
North Dakota	State	R-176	03-31-20
North Dakota	State Program	R-176	03-31-20
Oklahoma	State	9421	08-31-19
Oklahoma	State Program	9421	08-31-19 *
Oregon	NELAP	NY200003	06-09-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	08-01-20
Rhode Island	State Program	LAO00328	12-30-19
Tennessee	State	02970	03-31-20
Tennessee	State Program	TN02970	03-31-20
Texas	NELAP	T104704412-15-6	07-31-20
Texas	NELAP	T104704412-18-10	08-01-20
USDA	Federal	P330-11-00386	02-06-21
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-19
Virginia	NELAP	460185	09-14-19 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



# Accreditation/Certification Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

## Laboratory: Eurofins TestAmerica, Buffalo (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C784	02-10-20
Washington	State Program	C784	02-10-20
Wisconsin	State	998310390	08-31-19
Wisconsin	State Program	998310390	08-31-19 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



# Method Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

**Protocol References:**

MA DEP = Massachusetts Department Of Environmental Protection

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

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158129-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
[Redacted]					
480-158129-12	MW-217M-20190821-01	Water	08/21/19 09:50	08/24/19 09:00	
[Redacted]					
480-158129-15	TB -001-20190821-01	Water	08/21/19 00:00	08/24/19 09:00	
480-158129-16	PDB-BLANK -20190822-01	Water	08/22/19 13:20	08/24/19 09:00	

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## Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-158129-1

**Login Number: 158129**

**List Source: Eurofins TestAmerica, Buffalo**


**List Number: 1**

**Creator: Manhardt, Kara M**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	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	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ERM
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

# Chain of Custody Record

360325-Boston

Client Information		Lab PM:		Carrier Tracking No(s):		COC No:	
Sampler: <u>Paulina Staley</u>		Mason, Becky C				480-134087-19779.1	
Phone: <u>978-566-0078</u>		E-Mail: <u>becky.mason@testamericainc.com</u>				Page: <u>1 of 2</u>	
Company: <u>ERM-Northeast</u>						Job #:	
Due Date Requested:		Analysis Requested		Total Number of Containers		Preservation Codes:	
TAT Requested (days):		 480-158129 Chain of Custody				M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
PO #: <u>0484298.01</u>		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
WO #: <u>48007117</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
Project #: <u>48007117</u>		Matrix		826MCP - VOC			
SSOW#: <u>Wayland, MA</u>		(W=water, S=solid, O=water, G=grab)					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers
MW-1001M-20190821-01	08/21/19	11:45	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
MW-1002M-20190821-01		11:20		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
MW-1003-20190821-01		10:55		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
MW-1005-20190821-01		10:30		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
MW-1010D-20190821-01		12:30		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
MW-1010M-20190821-01		12:15		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
MW-1014-20190821-01		08:35		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
MW-1015D-20190821-01		09:00		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
MW-1028-20190821-01		14:40		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
MW-1032-20190822-01	08/22/19	12:00		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
MW-1034-20190821-01	08/21/19	14:15		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological							
<b>Deliverable Requested:</b> I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <u>Paulina Staley</u>		Date/Time: <u>08/23/19 11:00</u>		Company: <u>ERM</u>		Received by: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8/23/19 11:00</u>		Company: <u>ERM</u>		Date/Time: <u>8/24/19 0900</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8/23/19 14:00</u>		Company: <u>ERM</u>		Date/Time: <u>8/24/19 0900</u>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			



**Chain of Custody Record**

360325-Boston

<b>Client Information</b> Client Contact: Clementine Dulieu Company: ERM-Northeast Address: One Beacon Street 5th Floor City: Boston State/Zip: MA, 02108 Phone: 0484298.01 Email: clementine.dulieu@erm.com Project Name: IDS Wayland Site: Wayland, MA		Sampler: Paulina Staley Phone: 978-566-0078 Lab PM: Mason, Becky C E-Mail: becky.mason@vestamericainc.com		Carrier Tracking No(s): COC No: 480-134087-19779.2 Page: Page 2 of 2 Job #:					
<b>Due Date Requested:</b> TAT Requested (days): PO #: 0484298.01 WO #: Project #: 48007117 SSOW#:		<b>Analysis Requested</b>							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, D=wastefol, BT=tissue, AA=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	629MCP - VOC	Total Number of Containers	Special Instructions/Note:
MW-217M-20190821-01	08/21/19	09:50	G	Water	X	X		3	
DVP-001-20190821-01	08/21/19	12:00	G	Water	X	X		3	
DVP-002-20190821-01	08/21/19	12:05	G	Water	X	X		3	
TB-001-20190821-01	08/21/19	-	TB	Water	X	X			
PDB-BLANK-20190822-01	08/22/19	13:20	G	Water	X	X		3	
				Water					
				Water					
				Water					
				Water					

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

**Possible Hazard Identification**  
 Return To Client  Disposal By Lab  Archive For: Months

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Method of Shipment:  
 Relinquished by: Paulina Staley Date/Time: 08/23/19 11:00 Company: EA  
 Relinquished by: Date/Time: 8/23/19 16:00 Company: TA  
 Relinquished by: Date/Time: Company:

Custody Seal No.:  
 Yes  No Cooler Temperature(s) °C and Other Remarks: #1 312

## ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

Laboratory Job ID: 480-158731-1  
Client Project/Site: IDS Wayland  
Revision: 1

For:  
ERM-Northeast  
One Beacon Steet  
5th Floor  
Boston, Massachusetts 02108

Attn: Lyndsey Colburn



Authorized for release by:  
9/25/2019 12:48:58 PM

Becky Mason, Project Manager II  
(413)572-4000  
[becky.mason@testamericainc.com](mailto:becky.mason@testamericainc.com)

### LINKS

Review your project  
results through  
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Have a Question?



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[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

## 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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

# Case Narrative

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

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## Job ID: 480-158731-1

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### Laboratory: Eurofins TestAmerica, Buffalo

#### Narrative

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#### Job Narrative 480-158731-1

Revised report: Corrected sample IDs.

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/6/2019 6:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

#### GC/MS VOA

Method 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method(s) 8260C: The continuing calibration verification (CCV) for Chloroethane, Dichlorodifluoromethane, Trichlorofluoromethane, and Bromomethane associated with batch 480-491230 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : MW-1040-20190905-01 (480-158731-1), MW-1023-20190905-01 (480-158731-2), MW-217D-20190905-01 (480-158731-3) and TB-20190905-01 (480-158731-4).

Method(s) 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-491230 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected : MW-1040-20190905-01 (480-158731-1), MW-1023-20190905-01 (480-158731-2), MW-197D-20190905-01 (480-158731-3) and TB-20190905-01 (480-158731-4).

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

## MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-158731**

Project Location: **IDS Wayland, MA** RTN:

**This form provides certifications for the following data set: list Laboratory Sample ID Number(s):**  
**480-158731-1 Samples 1-4**

Matrices:  Groundwater/Surface Water  Soil/Sediment  Drinking Water  Air  Other:

**CAM Protocols (check all that apply below):**

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	

**Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status**

<b>A</b>	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>B</b>	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>C</b>	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>D</b>	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>E</b>	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>F</b>	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Responses to Questions G, H and I below are required for "Presumptive Certainty" status**

<b>G</b>	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

<b>H</b>	Were <b>all</b> QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>I</b>	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<sup>1</sup> All negative responses must be addressed in an attached laboratory narrative.

**I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.**

Signature: Joseph V. Giacomazza Position: Project Manager Assistant II  
 Printed Name: Joseph V. Giacomazza Date: 9/13/19 14:05

# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1



**Client Sample ID: MW-217D-20190905-01**

**Lab Sample ID: 480-158731-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.2		1.0		ug/L	1			8260C	Total/NA
Trichloroethene	3.8		1.0		ug/L	1			8260C	Total/NA

**Client Sample ID: TB-20190905-01**

**Lab Sample ID: 480-158731-4**

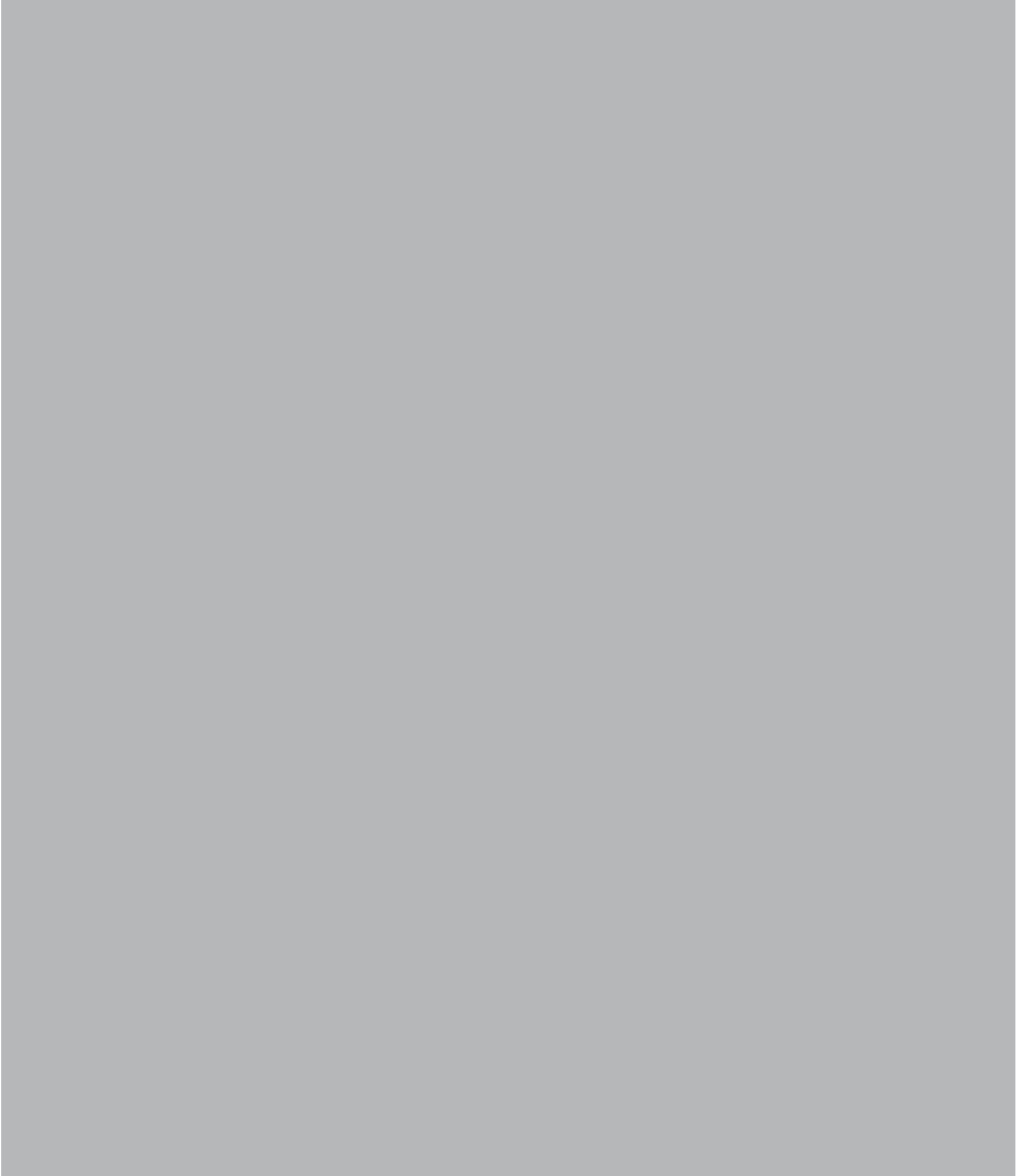
No Detections.



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

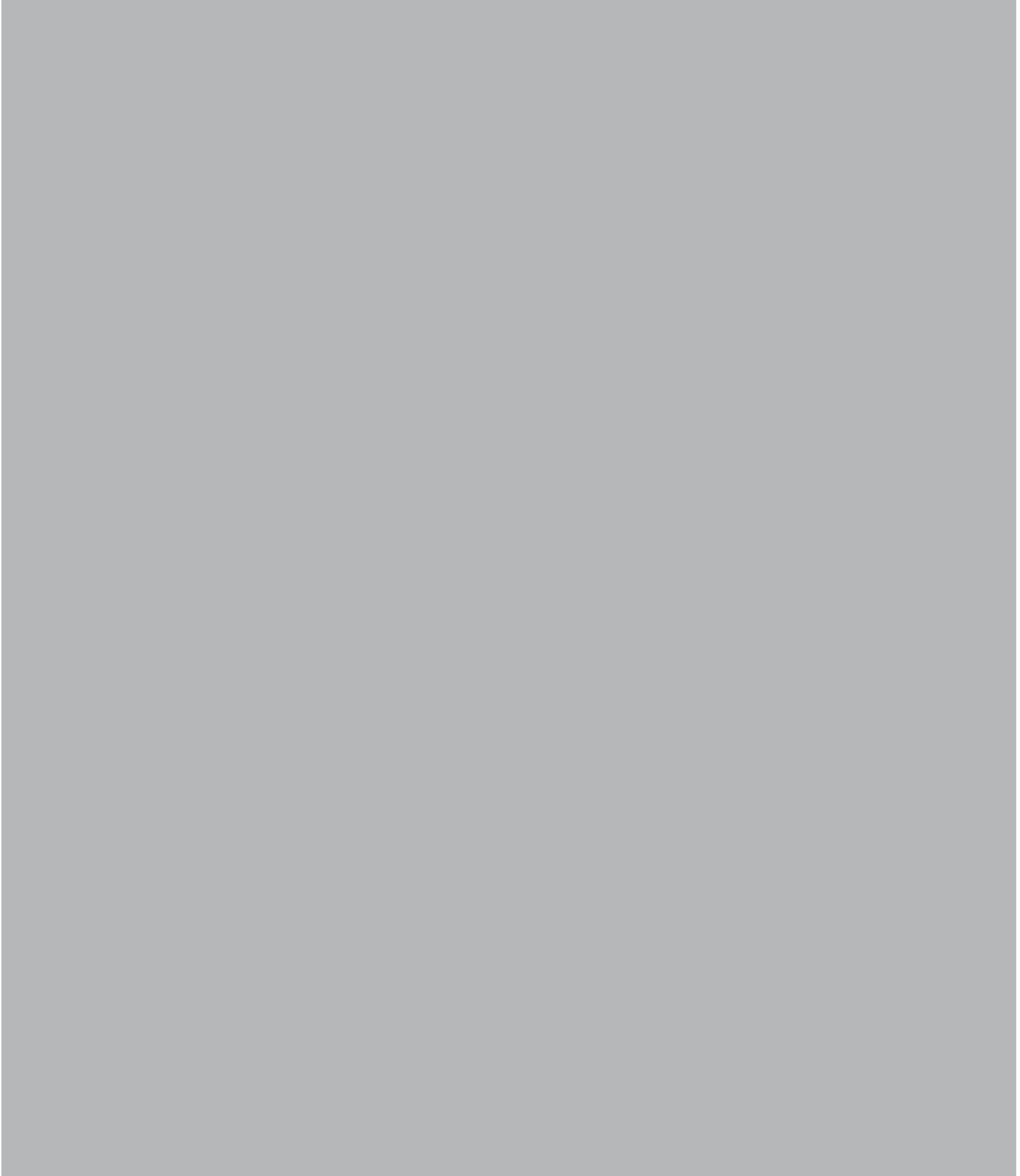


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# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

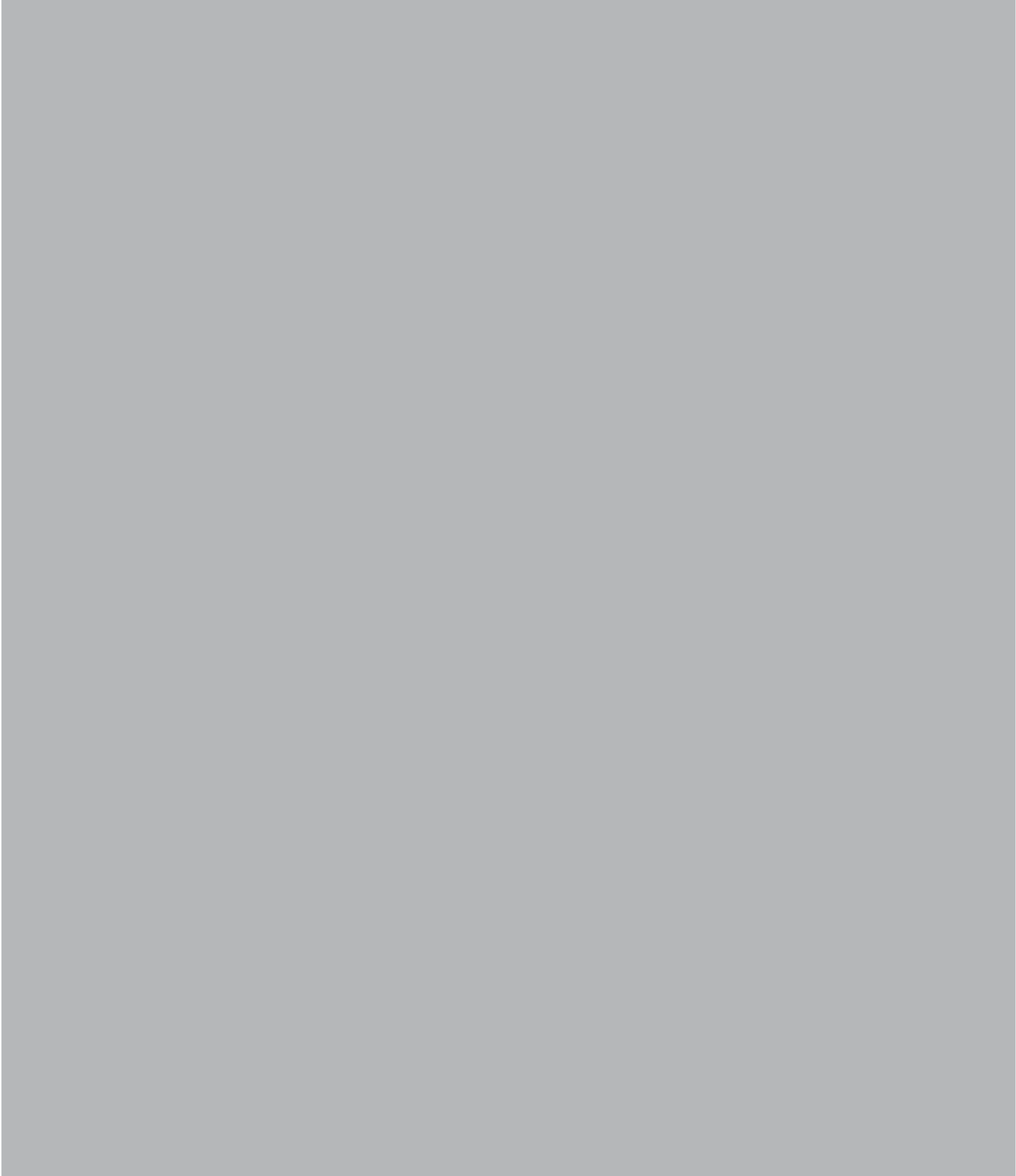


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# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1



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# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

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**Client Sample ID: MW-217D-20190905-01**

**Lab Sample ID: 480-158731-3**

**Date Collected: 09/05/19 09:45**

**Matrix: Water**

**Date Received: 09/06/19 06:15**

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/11/19 07:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/11/19 07:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/11/19 07:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/11/19 07:25	1
1,1-Dichloroethane	ND		1.0		ug/L			09/11/19 07:25	1
1,1-Dichloroethene	ND		1.0		ug/L			09/11/19 07:25	1
1,1-Dichloropropene	ND		1.0		ug/L			09/11/19 07:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/11/19 07:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/11/19 07:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/11/19 07:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/11/19 07:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/11/19 07:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/11/19 07:25	1
1,2-Dichloroethane	ND		1.0		ug/L			09/11/19 07:25	1
1,2-Dichloropropane	ND		1.0		ug/L			09/11/19 07:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/11/19 07:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/11/19 07:25	1
1,3-Dichloropropane	ND		1.0		ug/L			09/11/19 07:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/11/19 07:25	1
1,4-Dioxane	ND		50		ug/L			09/11/19 07:25	1
2,2-Dichloropropane	ND		1.0		ug/L			09/11/19 07:25	1
2-Butanone (MEK)	ND *		10		ug/L			09/11/19 07:25	1
2-Chlorotoluene	ND		1.0		ug/L			09/11/19 07:25	1
2-Hexanone	ND		10		ug/L			09/11/19 07:25	1
4-Chlorotoluene	ND		1.0		ug/L			09/11/19 07:25	1
4-Isopropyltoluene	ND		1.0		ug/L			09/11/19 07:25	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/11/19 07:25	1
Acetone	ND		50		ug/L			09/11/19 07:25	1
Benzene	ND		1.0		ug/L			09/11/19 07:25	1
Bromobenzene	ND		1.0		ug/L			09/11/19 07:25	1
Bromoform	ND		1.0		ug/L			09/11/19 07:25	1
Bromomethane	ND		2.0		ug/L			09/11/19 07:25	1

Eurofins TestAmerica, Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

**Client Sample ID: MW-217D-20190905-01**

**Lab Sample ID: 480-158731-3**

**Date Collected: 09/05/19 09:45**

**Matrix: Water**

**Date Received: 09/06/19 06:15**

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			09/11/19 07:25	1
Carbon tetrachloride	ND		1.0		ug/L			09/11/19 07:25	1
Chlorobenzene	ND		1.0		ug/L			09/11/19 07:25	1
Chlorobromomethane	ND		1.0		ug/L			09/11/19 07:25	1
Chlorodibromomethane	ND		0.50		ug/L			09/11/19 07:25	1
Chloroethane	ND		2.0		ug/L			09/11/19 07:25	1
Chloroform	ND		1.0		ug/L			09/11/19 07:25	1
Chloromethane	ND		2.0		ug/L			09/11/19 07:25	1
<b>cis-1,2-Dichloroethene</b>	<b>2.2</b>		1.0		ug/L			09/11/19 07:25	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/11/19 07:25	1
Dichlorobromomethane	ND		0.50		ug/L			09/11/19 07:25	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/11/19 07:25	1
Ethyl ether	ND		1.0		ug/L			09/11/19 07:25	1
Ethylbenzene	ND		1.0		ug/L			09/11/19 07:25	1
Ethylene Dibromide	ND		1.0		ug/L			09/11/19 07:25	1
Hexachlorobutadiene	ND		0.40		ug/L			09/11/19 07:25	1
Isopropyl ether	ND		10		ug/L			09/11/19 07:25	1
Isopropylbenzene	ND		1.0		ug/L			09/11/19 07:25	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/11/19 07:25	1
Methylene Chloride	ND		1.0		ug/L			09/11/19 07:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/11/19 07:25	1
Naphthalene	ND		5.0		ug/L			09/11/19 07:25	1
n-Butylbenzene	ND		1.0		ug/L			09/11/19 07:25	1
N-Propylbenzene	ND		1.0		ug/L			09/11/19 07:25	1
o-Xylene	ND		1.0		ug/L			09/11/19 07:25	1
sec-Butylbenzene	ND		1.0		ug/L			09/11/19 07:25	1
Styrene	ND		1.0		ug/L			09/11/19 07:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/11/19 07:25	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/11/19 07:25	1
tert-Butylbenzene	ND		1.0		ug/L			09/11/19 07:25	1
Tetrachloroethene	ND		1.0		ug/L			09/11/19 07:25	1
Tetrahydrofuran	ND		10		ug/L			09/11/19 07:25	1
Toluene	ND		1.0		ug/L			09/11/19 07:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/11/19 07:25	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/11/19 07:25	1
<b>Trichloroethene</b>	<b>3.8</b>		1.0		ug/L			09/11/19 07:25	1
Trichlorofluoromethane	ND		1.0		ug/L			09/11/19 07:25	1
Vinyl chloride	ND		1.0		ug/L			09/11/19 07:25	1
Dibromomethane	ND		1.0		ug/L			09/11/19 07:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		09/11/19 07:25	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		09/11/19 07:25	1
4-Bromofluorobenzene (Surr)	107		70 - 130		09/11/19 07:25	1

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

**Client Sample ID: TB-20190905-01**

**Lab Sample ID: 480-158731-4**

**Date Collected: 09/05/19 00:00**

**Matrix: Water**

**Date Received: 09/06/19 06:15**

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/11/19 07:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/11/19 07:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/11/19 07:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/11/19 07:49	1
1,1-Dichloroethane	ND		1.0		ug/L			09/11/19 07:49	1
1,1-Dichloroethene	ND		1.0		ug/L			09/11/19 07:49	1
1,1-Dichloropropene	ND		1.0		ug/L			09/11/19 07:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/11/19 07:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/11/19 07:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/11/19 07:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/11/19 07:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/11/19 07:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/11/19 07:49	1
1,2-Dichloroethane	ND		1.0		ug/L			09/11/19 07:49	1
1,2-Dichloropropane	ND		1.0		ug/L			09/11/19 07:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/11/19 07:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/11/19 07:49	1
1,3-Dichloropropane	ND		1.0		ug/L			09/11/19 07:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/11/19 07:49	1
1,4-Dioxane	ND		50		ug/L			09/11/19 07:49	1
2,2-Dichloropropane	ND		1.0		ug/L			09/11/19 07:49	1
2-Butanone (MEK)	ND	*	10		ug/L			09/11/19 07:49	1
2-Chlorotoluene	ND		1.0		ug/L			09/11/19 07:49	1
2-Hexanone	ND		10		ug/L			09/11/19 07:49	1
4-Chlorotoluene	ND		1.0		ug/L			09/11/19 07:49	1
4-Isopropyltoluene	ND		1.0		ug/L			09/11/19 07:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/11/19 07:49	1
Acetone	ND		50		ug/L			09/11/19 07:49	1
Benzene	ND		1.0		ug/L			09/11/19 07:49	1
Bromobenzene	ND		1.0		ug/L			09/11/19 07:49	1
Bromoform	ND		1.0		ug/L			09/11/19 07:49	1
Bromomethane	ND		2.0		ug/L			09/11/19 07:49	1
Carbon disulfide	ND		10		ug/L			09/11/19 07:49	1
Carbon tetrachloride	ND		1.0		ug/L			09/11/19 07:49	1
Chlorobenzene	ND		1.0		ug/L			09/11/19 07:49	1
Chlorobromomethane	ND		1.0		ug/L			09/11/19 07:49	1
Chlorodibromomethane	ND		0.50		ug/L			09/11/19 07:49	1
Chloroethane	ND		2.0		ug/L			09/11/19 07:49	1
Chloroform	ND		1.0		ug/L			09/11/19 07:49	1
Chloromethane	ND		2.0		ug/L			09/11/19 07:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/11/19 07:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/11/19 07:49	1
Dichlorobromomethane	ND		0.50		ug/L			09/11/19 07:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/11/19 07:49	1
Ethyl ether	ND		1.0		ug/L			09/11/19 07:49	1
Ethylbenzene	ND		1.0		ug/L			09/11/19 07:49	1
Ethylene Dibromide	ND		1.0		ug/L			09/11/19 07:49	1
Hexachlorobutadiene	ND		0.40		ug/L			09/11/19 07:49	1
Isopropyl ether	ND		10		ug/L			09/11/19 07:49	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

**Client Sample ID: TB-20190905-01**

**Lab Sample ID: 480-158731-4**

**Date Collected: 09/05/19 00:00**

**Matrix: Water**

**Date Received: 09/06/19 06:15**

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			09/11/19 07:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/11/19 07:49	1
Methylene Chloride	ND		1.0		ug/L			09/11/19 07:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/11/19 07:49	1
Naphthalene	ND		5.0		ug/L			09/11/19 07:49	1
n-Butylbenzene	ND		1.0		ug/L			09/11/19 07:49	1
N-Propylbenzene	ND		1.0		ug/L			09/11/19 07:49	1
o-Xylene	ND		1.0		ug/L			09/11/19 07:49	1
sec-Butylbenzene	ND		1.0		ug/L			09/11/19 07:49	1
Styrene	ND		1.0		ug/L			09/11/19 07:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/11/19 07:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/11/19 07:49	1
tert-Butylbenzene	ND		1.0		ug/L			09/11/19 07:49	1
Tetrachloroethene	ND		1.0		ug/L			09/11/19 07:49	1
Tetrahydrofuran	ND		10		ug/L			09/11/19 07:49	1
Toluene	ND		1.0		ug/L			09/11/19 07:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/11/19 07:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/11/19 07:49	1
Trichloroethene	ND		1.0		ug/L			09/11/19 07:49	1
Trichlorofluoromethane	ND		1.0		ug/L			09/11/19 07:49	1
Vinyl chloride	ND		1.0		ug/L			09/11/19 07:49	1
Dibromomethane	ND		1.0		ug/L			09/11/19 07:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		09/11/19 07:49	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		09/11/19 07:49	1
4-Bromofluorobenzene (Surr)	103		70 - 130		09/11/19 07:49	1

# Surrogate Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TOL	DCA	BFB
		(70-130)	(70-130)	(70-130)
480-158731-3	MW-217D-20190905-01	97	106	107
480-158731-4	TB-20190905-01	95	102	103
LCS 480-491230/6	Lab Control Sample	93	100	98
LCSD 480-491230/47	Lab Control Sample Dup	99	106	105
MB 480-491230/10	Method Blank	98	107	102

### Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

## Method: 8260C - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-491230/10**  
**Matrix: Water**  
**Analysis Batch: 491230**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/10/19 23:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/10/19 23:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/10/19 23:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/10/19 23:22	1
1,1-Dichloroethane	ND		1.0		ug/L			09/10/19 23:22	1
1,1-Dichloroethene	ND		1.0		ug/L			09/10/19 23:22	1
1,1-Dichloropropene	ND		1.0		ug/L			09/10/19 23:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/10/19 23:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/10/19 23:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/10/19 23:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/10/19 23:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/10/19 23:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/10/19 23:22	1
1,2-Dichloroethane	ND		1.0		ug/L			09/10/19 23:22	1
1,2-Dichloropropane	ND		1.0		ug/L			09/10/19 23:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/10/19 23:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/10/19 23:22	1
1,3-Dichloropropane	ND		1.0		ug/L			09/10/19 23:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/10/19 23:22	1
1,4-Dioxane	ND		50		ug/L			09/10/19 23:22	1
2,2-Dichloropropane	ND		1.0		ug/L			09/10/19 23:22	1
2-Butanone (MEK)	ND		10		ug/L			09/10/19 23:22	1
2-Chlorotoluene	ND		1.0		ug/L			09/10/19 23:22	1
2-Hexanone	ND		10		ug/L			09/10/19 23:22	1
4-Chlorotoluene	ND		1.0		ug/L			09/10/19 23:22	1
4-Isopropyltoluene	ND		1.0		ug/L			09/10/19 23:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/10/19 23:22	1
Acetone	ND		50		ug/L			09/10/19 23:22	1
Benzene	ND		1.0		ug/L			09/10/19 23:22	1
Bromobenzene	ND		1.0		ug/L			09/10/19 23:22	1
Bromoform	ND		1.0		ug/L			09/10/19 23:22	1
Bromomethane	ND		2.0		ug/L			09/10/19 23:22	1
Carbon disulfide	ND		10		ug/L			09/10/19 23:22	1
Carbon tetrachloride	ND		1.0		ug/L			09/10/19 23:22	1
Chlorobenzene	ND		1.0		ug/L			09/10/19 23:22	1
Chlorobromomethane	ND		1.0		ug/L			09/10/19 23:22	1
Chlorodibromomethane	ND		0.50		ug/L			09/10/19 23:22	1
Chloroethane	ND		2.0		ug/L			09/10/19 23:22	1
Chloroform	ND		1.0		ug/L			09/10/19 23:22	1
Chloromethane	ND		2.0		ug/L			09/10/19 23:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/10/19 23:22	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/10/19 23:22	1
Dichlorobromomethane	ND		0.50		ug/L			09/10/19 23:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/10/19 23:22	1
Ethyl ether	ND		1.0		ug/L			09/10/19 23:22	1
Ethylbenzene	ND		1.0		ug/L			09/10/19 23:22	1
Ethylene Dibromide	ND		1.0		ug/L			09/10/19 23:22	1
Hexachlorobutadiene	ND		0.40		ug/L			09/10/19 23:22	1

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-491230/10**  
**Matrix: Water**  
**Analysis Batch: 491230**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			09/10/19 23:22	1
Isopropylbenzene	ND		1.0		ug/L			09/10/19 23:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/10/19 23:22	1
Methylene Chloride	ND		1.0		ug/L			09/10/19 23:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/10/19 23:22	1
Naphthalene	ND		5.0		ug/L			09/10/19 23:22	1
n-Butylbenzene	ND		1.0		ug/L			09/10/19 23:22	1
N-Propylbenzene	ND		1.0		ug/L			09/10/19 23:22	1
o-Xylene	ND		1.0		ug/L			09/10/19 23:22	1
sec-Butylbenzene	ND		1.0		ug/L			09/10/19 23:22	1
Styrene	ND		1.0		ug/L			09/10/19 23:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/10/19 23:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/10/19 23:22	1
tert-Butylbenzene	ND		1.0		ug/L			09/10/19 23:22	1
Tetrachloroethene	ND		1.0		ug/L			09/10/19 23:22	1
Tetrahydrofuran	ND		10		ug/L			09/10/19 23:22	1
Toluene	ND		1.0		ug/L			09/10/19 23:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/10/19 23:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/10/19 23:22	1
Trichloroethene	ND		1.0		ug/L			09/10/19 23:22	1
Trichlorofluoromethane	ND		1.0		ug/L			09/10/19 23:22	1
Vinyl chloride	ND		1.0		ug/L			09/10/19 23:22	1
Dibromomethane	ND		1.0		ug/L			09/10/19 23:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		09/10/19 23:22	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		09/10/19 23:22	1
4-Bromofluorobenzene (Surr)	102		70 - 130		09/10/19 23:22	1

**Lab Sample ID: LCS 480-491230/6**  
**Matrix: Water**  
**Analysis Batch: 491230**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	22.8		ug/L		91	70 - 130
1,1,1-Trichloroethane	25.0	25.3		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.2		ug/L		93	70 - 130
1,1,2-Trichloroethane	25.0	22.6		ug/L		90	70 - 130
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
1,1-Dichloropropene	25.0	24.5		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	23.9		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.6		ug/L		86	70 - 130
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	23.1		ug/L		93	70 - 130

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-491230/6**

**Matrix: Water**

**Analysis Batch: 491230**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.0		ug/L		92	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		94	70 - 130
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,3-Dichloropropane	25.0	22.0		ug/L		88	70 - 130
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,4-Dioxane	500	420		ug/L		84	70 - 130
2,2-Dichloropropane	25.0	23.0		ug/L		92	70 - 130
2-Butanone (MEK)	125	193	*	ug/L		155	70 - 130
2-Chlorotoluene	25.0	25.6		ug/L		103	70 - 130
2-Hexanone	125	106		ug/L		84	70 - 130
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	24.8		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	125	103		ug/L		83	70 - 130
Acetone	125	112		ug/L		90	70 - 130
Benzene	25.0	24.0		ug/L		96	70 - 130
Bromobenzene	25.0	24.6		ug/L		98	70 - 130
Bromoform	25.0	24.0		ug/L		96	70 - 130
Bromomethane	25.0	28.2		ug/L		113	70 - 130
Carbon disulfide	25.0	24.4		ug/L		98	70 - 130
Carbon tetrachloride	25.0	25.0		ug/L		100	70 - 130
Chlorobenzene	25.0	23.0		ug/L		92	70 - 130
Chlorobromomethane	25.0	24.9		ug/L		100	70 - 130
Chlorodibromomethane	25.0	23.5		ug/L		94	70 - 130
Chloroethane	25.0	31.4		ug/L		126	70 - 130
Chloroform	25.0	23.7		ug/L		95	70 - 130
Chloromethane	25.0	24.4		ug/L		98	70 - 130
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	70 - 130
cis-1,3-Dichloropropene	25.0	23.4		ug/L		94	70 - 130
Dichlorobromomethane	25.0	23.5		ug/L		94	70 - 130
Dichlorodifluoromethane	25.0	30.4		ug/L		122	70 - 130
Ethyl ether	25.0	24.5		ug/L		98	70 - 130
Ethylbenzene	25.0	23.0		ug/L		92	70 - 130
Ethylene Dibromide	25.0	23.0		ug/L		92	70 - 130
Hexachlorobutadiene	25.0	25.1		ug/L		100	70 - 130
Isopropyl ether	25.0	22.3		ug/L		89	70 - 130
Isopropylbenzene	25.0	23.7		ug/L		95	70 - 130
Methyl tert-butyl ether	25.0	23.4		ug/L		94	70 - 130
Methylene Chloride	25.0	23.6		ug/L		94	70 - 130
m-Xylene & p-Xylene	25.0	23.0		ug/L		92	70 - 130
Naphthalene	25.0	23.1		ug/L		92	70 - 130
n-Butylbenzene	25.0	23.8		ug/L		95	70 - 130
N-Propylbenzene	25.0	23.1		ug/L		92	70 - 130
o-Xylene	25.0	23.1		ug/L		93	70 - 130
sec-Butylbenzene	25.0	23.9		ug/L		96	70 - 130
Styrene	25.0	22.8		ug/L		91	70 - 130
Tert-amyl methyl ether	25.0	23.9		ug/L		96	70 - 130
Tert-butyl ethyl ether	25.0	23.0		ug/L		92	70 - 130
tert-Butylbenzene	25.0	23.2		ug/L		93	70 - 130
Tetrachloroethene	25.0	28.9		ug/L		116	70 - 130

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-491230/6**  
**Matrix: Water**  
**Analysis Batch: 491230**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	53.6		ug/L		107	70 - 130
Toluene	25.0	22.9		ug/L		92	70 - 130
trans-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 130
trans-1,3-Dichloropropene	25.0	21.3		ug/L		85	70 - 130
Trichloroethene	25.0	25.4		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	30.1		ug/L		120	70 - 130
Vinyl chloride	25.0	26.5		ug/L		106	70 - 130
Dibromomethane	25.0	25.0		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130

**Lab Sample ID: LCSD 480-491230/47**  
**Matrix: Water**  
**Analysis Batch: 491230**

**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
1,1,1,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 130	8	20
1,1,1-Trichloroethane	25.0	26.1		ug/L		104	70 - 130	3	20
1,1,1,2,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130	7	20
1,1,1,2-Trichloroethane	25.0	25.1		ug/L		100	70 - 130	11	20
1,1,1-Dichloroethane	25.0	25.3		ug/L		101	70 - 130	6	20
1,1-Dichloroethene	25.0	27.3		ug/L		109	70 - 130	2	20
1,1-Dichloropropene	25.0	25.3		ug/L		101	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130	7	20
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	70 - 130	8	20
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130	6	20
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 130	7	20
1,2-Dibromo-3-Chloropropane	25.0	23.2		ug/L		93	70 - 130	7	20
1,2-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130	6	20
1,2-Dichloroethane	25.0	24.7		ug/L		99	70 - 130	7	20
1,2-Dichloropropane	25.0	24.0		ug/L		96	70 - 130	4	20
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130	5	20
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130	7	20
1,3-Dichloropropane	25.0	23.9		ug/L		96	70 - 130	8	20
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130	7	20
1,4-Dioxane	500	499		ug/L		100	70 - 130	17	20
2,2-Dichloropropane	25.0	23.4		ug/L		94	70 - 130	2	20
2-Butanone (MEK)	125	208	*	ug/L		166	70 - 130	7	20
2-Chlorotoluene	25.0	26.7		ug/L		107	70 - 130	4	20
2-Hexanone	125	116		ug/L		93	70 - 130	9	20
4-Chlorotoluene	25.0	26.6		ug/L		107	70 - 130	8	20
4-Isopropyltoluene	25.0	26.1		ug/L		104	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	125	112		ug/L		90	70 - 130	9	20
Acetone	125	110		ug/L		88	70 - 130	1	20
Benzene	25.0	25.1		ug/L		100	70 - 130	5	20

Eurofins TestAmerica, Buffalo



# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 480-491230/47**

**Matrix: Water**

**Analysis Batch: 491230**

**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
Bromobenzene	25.0	25.9		ug/L		104	70 - 130	5	20
Bromoform	25.0	24.8		ug/L		99	70 - 130	3	20
Bromomethane	25.0	28.3		ug/L		113	70 - 130	0	20
Carbon disulfide	25.0	25.4		ug/L		102	70 - 130	4	20
Carbon tetrachloride	25.0	26.1		ug/L		105	70 - 130	4	20
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130	6	20
Chlorobromomethane	25.0	25.3		ug/L		101	70 - 130	2	20
Chlorodibromomethane	25.0	25.3		ug/L		101	70 - 130	8	20
Chloroethane	25.0	31.8		ug/L		127	70 - 130	1	20
Chloroform	25.0	24.9		ug/L		99	70 - 130	5	20
Chloromethane	25.0	25.9		ug/L		104	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130	4	20
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130	5	20
Dichlorobromomethane	25.0	25.1		ug/L		101	70 - 130	7	20
Dichlorodifluoromethane	25.0	31.6		ug/L		126	70 - 130	4	20
Ethyl ether	25.0	25.8		ug/L		103	70 - 130	5	20
Ethylbenzene	25.0	24.5		ug/L		98	70 - 130	6	20
Ethylene Dibromide	25.0	25.3		ug/L		101	70 - 130	10	20
Hexachlorobutadiene	25.0	26.9		ug/L		108	70 - 130	7	20
Isopropyl ether	25.0	23.2		ug/L		93	70 - 130	4	20
Isopropylbenzene	25.0	25.0		ug/L		100	70 - 130	5	20
Methyl tert-butyl ether	25.0	25.4		ug/L		102	70 - 130	8	20
Methylene Chloride	25.0	25.4		ug/L		102	70 - 130	8	20
m-Xylene & p-Xylene	25.0	24.1		ug/L		97	70 - 130	5	20
Naphthalene	25.0	24.6		ug/L		99	70 - 130	6	20
n-Butylbenzene	25.0	25.0		ug/L		100	70 - 130	5	20
N-Propylbenzene	25.0	24.7		ug/L		99	70 - 130	7	20
o-Xylene	25.0	24.5		ug/L		98	70 - 130	6	20
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	6	20
Styrene	25.0	24.4		ug/L		98	70 - 130	7	20
Tert-amyl methyl ether	25.0	25.3		ug/L		101	70 - 130	6	20
Tert-butyl ethyl ether	25.0	24.1		ug/L		97	70 - 130	5	20
tert-Butylbenzene	25.0	24.2		ug/L		97	70 - 130	4	20
Tetrachloroethene	25.0	29.7		ug/L		119	70 - 130	3	20
Tetrahydrofuran	50.0	57.1		ug/L		114	70 - 130	6	20
Toluene	25.0	24.4		ug/L		98	70 - 130	7	20
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	22.7		ug/L		91	70 - 130	6	20
Trichloroethene	25.0	26.2		ug/L		105	70 - 130	3	20
Trichlorofluoromethane	25.0	30.5		ug/L		122	70 - 130	1	20
Vinyl chloride	25.0	27.6		ug/L		110	70 - 130	4	20
Dibromomethane	25.0	26.0		ug/L		104	70 - 130	4	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130

Eurofins TestAmerica, Buffalo

# QC Association Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

## GC/MS VOA

### Analysis Batch: 491230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158731-1	MW-1040-20190905-01	Total/NA	Water	8260C	
480-158731-2	MW-1023-20190905-01	Total/NA	Water	8260C	
480-158731-3	MW-217D-20190905-01	Total/NA	Water	8260C	
480-158731-4	TB-20190905-01	Total/NA	Water	8260C	
MB 480-491230/10	Method Blank	Total/NA	Water	8260C	
LCS 480-491230/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-491230/47	Lab Control Sample Dup	Total/NA	Water	8260C	

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# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

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**Client Sample ID: MW-217D-20190905-01**

**Lab Sample ID: 480-158731-3**

**Date Collected: 09/05/19 09:45**

**Matrix: Water**

**Date Received: 09/06/19 06:15**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	491230	09/11/19 07:25	RJF	TAL BUF

**Client Sample ID: TB-20190905-01**

**Lab Sample ID: 480-158731-4**

**Date Collected: 09/05/19 00:00**

**Matrix: Water**

**Date Received: 09/06/19 06:15**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	491230	09/11/19 07:49	RJF	TAL BUF

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Accreditation/Certification Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

## Laboratory: Eurofins TestAmerica, Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
Arkansas DEQ	State Program	88-0686	07-06-20
California	State	2931	04-01-20
California	State Program	2931	04-01-20
Connecticut	State	PH-0568	09-30-20
Connecticut	State Program	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	03-31-20
Georgia	State Program	10026 (NY)	03-31-20
Georgia	State Program	956	03-31-20
Georgia (DW)	State	956	03-31-20
Illinois	NELAP	200003	09-30-19 *
Illinois	NELAP	200003	09-30-19 *
Iowa	State	374	02-28-21
Iowa	State Program	374	02-28-21
Kansas	NELAP	E-10187	01-31-20
Kansas	NELAP	E-10187	01-31-20
Kentucky (DW)	State	90029	12-31-20
Kentucky (DW)	State Program	90029	12-31-19
Kentucky (UST)	State Program	30	03-31-20
Kentucky (WW)	State	KY90029	12-31-20
Kentucky (WW)	State Program	90029	12-31-19
Louisiana	NELAP	02031	06-30-20
Louisiana	NELAP	02031	06-30-20
Maine	State Program	NY00044	12-04-20
Maryland	State	294	03-31-20
Maryland	State Program	294	03-31-20
Massachusetts	State Program	M-NY044	06-30-20
Michigan	State	9937	03-31-20
Michigan	State Program	9937	03-31-20
Minnesota	NELAP	036-999-337	12-31-19
Minnesota	NELAP	1524384	12-31-19
New Hampshire	NELAP	2337	11-17-19 *
New Jersey	NELAP	NY455	06-30-20
New Jersey	NELAP	NY455	06-25-20
New York	NELAP	10026	03-31-20
New York	NELAP	10026	04-01-20
North Dakota	State	R-176	03-31-20
North Dakota	State Program	R-176	03-31-20
Oklahoma	State Program	9421	08-31-20
Oregon	NELAP	NY200003	06-09-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Pennsylvania	NELAP	68-00281	08-01-20
Rhode Island	State	LAO00328	12-30-20
Rhode Island	State Program	LAO00328	12-30-19
Tennessee	State	02970	03-31-20
Tennessee	State Program	TN02970	03-31-20
Texas	NELAP	T104704412-15-6	07-31-20

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Buffalo

# Accreditation/Certification Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

## Laboratory: Eurofins TestAmerica, Buffalo (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704412-18-10	08-01-20
USDA	Federal	P330-11-00386	02-06-21
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Virginia	NELAP	460185	09-14-19 *
Washington	State	C784	02-10-20
Washington	State Program	C784	02-10-20
Wisconsin	State Program	998310390	08-31-20

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Buffalo



# Method Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

**Protocol References:**

MA DEP = Massachusetts Department Of Environmental Protection

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

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

Job ID: 480-158731-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-158731-1	MW-1040-20190905-01	Water	09/05/19 08:55	09/06/19 06:15	
480-158731-2	MW-1023-20190905-01	Water	09/05/19 09:25	09/06/19 06:15	
480-158731-3	MW-217D-20190905-01	Water	09/05/19 09:45	09/06/19 06:15	
480-158731-4	TB-20190905-01	Water	09/05/19 00:00	09/06/19 06:15	

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## Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-158731-1

**Login Number: 158731**

**List Source: Eurofins TestAmerica, Buffalo**

**List Number: 1**

**Creator: Harper, Marcus D**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	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	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ERM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt \_\_\_\_\_  
Drinking Water? Yes  No

TAL-4124 (1007)

**Chain of Custody Record**

Client: **ERM** Project Manager: **Katie Wolf** Date: **09/05/19** Chain of Custody Number: **280097**


Address: **One Beacon St, 5th Floor** Telephone Number (Area Code)/Fax Number: **978-566-0078 (Paulina)** Lab Number: \_\_\_\_\_ Page: **1** of **1**

City: **Boston** State: **MA** Zip Code: **02108** Site Contact: \_\_\_\_\_ Lab Contact: \_\_\_\_\_ Analysis (Attach list if more space is needed): \_\_\_\_\_

Project Name and Location (State): **IDS Wayland / MA** Carrier/Waybill Number: \_\_\_\_\_

Contract/Purchase Order/Quote No. \_\_\_\_\_

Special Instructions/Conditions of Receipt: \_\_\_\_\_

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix						Containers & Preservatives					Total		
			Air	Aqueous	Sed	Soil	SW	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
MW-217D-20190905-01	09/05/19	09:45					X									3
TB-20190905-01	09/05/19			X												1
 480-158731 Chain of Custody																
10																

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required  
 24 Hours  48 Hours  7 Days  14 Days  21 Days  Other \_\_\_\_\_

QC Requirements (Specify)

1. Relinquished By: **Paulina Staley** Date: **09/05/19** Time: **12:10**  
 2. Relinquished By: \_\_\_\_\_ Date: **9-5-19** Time: **1:00**  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

1. Received By: **CWald** Date: **9/6/19** Time: **06:15**  
 2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: **#1 310**