

**Environmental
Resources
Management**

One Beacon Street, 5th Floor
Boston, MA 02108
(617) 646-7800
(617) 267-6447 (fax)

<http://www.erm.com>

2 November 2017
Reference: 0377766

Wayland Meadows Development, Inc.
Attn: Mr. Richard Gass
145 Rosemary Street, Suite E
Needham, MA 02494



Re: Transmittal of Groundwater Analytical Data
Former Raytheon Facility
430 Boston Post Road, Wayland, Massachusetts

Dear Mr. Gass:

On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) is submitting the results of groundwater sample analyses for the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts (Site). The results are being submitted pursuant to 310 CMR 40.1403(10) of the Massachusetts Contingency Plan.

Innovative Engineering Solutions, Inc. (IESI) collected groundwater samples from one monitoring well located on Wayland Meadows Development, Inc. property in October 2017. These samples were submitted to TestAmerica Laboratories, Inc. of Amherst, NY for analysis. All analytical results are attached to this letter.

Raytheon has implemented the Public Involvement Process in accordance with 310 CMR 40.1405. Documents pertaining to the Site can be found at the Board of Health Public Involvement Plan files, or at <http://raytheon.erm.com/home.htm>.

If you have any questions or comments, please contact the undersigned at (617) 646-7800 or Jonathan Hone, Raytheon Company, at (978) 436-8298.

Sincerely,

A handwritten signature in blue ink, appearing to be "John C. Drobinski".

John C. Drobinski, P.G., LSP
Principal-in-Charge

A handwritten signature in blue ink, appearing to be "Lyndsey Colburn".

Lyndsey Colburn, P.G.
Principal Consultant

enclosures: BWSC-123 - Notice of Environmental Sampling
Laboratory Analytical Reports (CD)

cc: Jonathan Hone, Raytheon Company
PIP Repositories



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

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.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-125214-1

Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc

25 Spring Street

Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:

10/11/2017 3:16:03 PM

Denise Giglia, Project Management Assistant II

denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

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: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Qualifiers

GC/MS VOA

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

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Job ID: 480-125214-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-125214-1

Receipt

The samples were received on 10/4/2017 2:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 2.7° C.

Receipt Exceptions

Upon receipt, laboratory personnel were not able to determine if the submitted volume for Ortho-Phosphate analysis were field filtered within the method's time criteria for the following samples: DEP-21-20171002 (480-125214-1), MW-264M-20171002 (480-125214-2), MW-266MA-20171002 (480-125214-3), MW-266MB-20171002 (480-125214-4), MW-267M-20171002 (480-125214-5), MW-269MA-20171002 (480-125214-6), MW-560-20171003 (480-125214-7), MW-561-20171003 (480-125214-8), MW-562-20171003 (480-125214-9), MW-563-20171003 (480-125214-10), REW-6-20171003 (480-125214-11), REW-7-20171003 (480-125214-12), REW-11-20171003 (480-125214-13), REW-12-20171003 (480-125214-14), DUP1-20171003 (480-125214-15) and TRIP BLANKS (480-125214-16). Samples were provided to the analytical department in an "as received" condition.

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 laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-380799 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 : DEP-21-20171002 (480-125214-1), MW-264M-20171002 (480-125214-2), MW-266MA-20171002 (480-125214-3), MW-266MB-20171002 (480-125214-4) and MW-267M-20171002 (480-125214-5).

Method 8260C: The continuing calibration verification (CCV) for Dichlorodifluoromethane and 1,3-Dichloropropane associated with batch 480-380799 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 : DEP-21-20171002 (480-125214-1), MW-264M-20171002 (480-125214-2), MW-266MA-20171002 (480-125214-3), MW-266MB-20171002 (480-125214-4) and MW-267M-20171002 (480-125214-5).

Method 8260C: The following volatile sample was analyzed with significant headspace in the sample Container: MW-264M-20171002 (480-125214-2). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260C: The continuing calibration verification (CCV) for Carbon tetrachloride, 1,1,2,2-Tetrachloroethane, 1,3-Dichloropropane, and Ethyl ether associated with batch 480-380932 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-269MA-20171002 (480-125214-6), MW-560-20171003 (480-125214-7), MW-561-20171003 (480-125214-8), MW-562-20171003 (480-125214-9), MW-563-20171003 (480-125214-10), REW-6-20171003 (480-125214-11), REW-7-20171003 (480-125214-12), REW-11-20171003 (480-125214-13), REW-12-20171003 (480-125214-14) and TRIP BLANKS (480-125214-16).

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-380932 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-269MA-20171002 (480-125214-6), MW-560-20171003 (480-125214-7), MW-561-20171003 (480-125214-8), MW-562-20171003 (480-125214-9), MW-563-20171003 (480-125214-10), REW-6-20171003 (480-125214-11), REW-7-20171003 (480-125214-12), REW-11-20171003 (480-125214-13), REW-12-20171003 (480-125214-14) and TRIP BLANKS (480-125214-16).

Method 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs).

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Job ID: 480-125214-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: REW-6-20171003 (480-125214-11) and REW-11-20171003 (480-125214-13). The samples were analyzed within 7 days per EPA recommendation.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-562-20171003 (480-125214-9) and REW-6-20171003 (480-125214-11). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: REW-12-20171003 (480-125214-14). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: DUP1-20171003 (480-125214-15). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) for n-Butylbenzene, N-Propylbenzene, Acetone, 1,1,2,2-Tetrachloroethane, 1,3-Dichloropropane, Dichlorodifluoromethane and Isopropylbenzene associated with batch 480-381006 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 sample was affected : DUP1-20171003 (480-125214-15).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-381006 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 sample was affected : DUP1-20171003 (480-125214-15).

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

GC/MS Semi VOA

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

HPLC/IC

Method 300.0: The following samples was reported with elevated reporting limits for all analytes: REW-6-20171003 (480-125214-11), REW-11-20171003 (480-125214-13) and REW-12-20171003 (480-125214-14). The sample was analyzed at a dilution based on screening results.

Method 300.0: The following samples was reported with elevated reporting limits for all analytes: MW-560-20171003 (480-125214-7), MW-561-20171003 (480-125214-8) and MW-562-20171003 (480-125214-9). The sample was analyzed at a dilution based on screening results.

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

Metals

Method 6010: At the request of the client, an abbreviated/modified MCP compound list was reported for this job.

Method 6010, 6010C: The continuing calibration blank (CCB 480-380329/39) contained Total Iron above the reporting limit (RL). All reported samples MW-560-20171003 (480-125214-7), MW-561-20171003 (480-125214-8), MW-562-20171003 (480-125214-9), MW-563-20171003 (480-125214-10), REW-6-20171003 (480-125214-11), REW-7-20171003 (480-125214-12), REW-11-20171003 (480-125214-13), REW-12-20171003 (480-125214-14), (LCSD 480-380098/3-A), (480-125214-B-9-B MS), (480-125214-B-9-C MSD), (480-125214-B-9-A PDS) and (480-125214-B-9-A SD) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

General Chemistry

Method 353.2: The following samples was filtered prior to analysis: MW-560-20171003 (480-125214-7), MW-561-20171003

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Job ID: 480-125214-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

(480-125214-8), MW-563-20171003 (480-125214-10), REW-6-20171003 (480-125214-11), REW-7-20171003 (480-125214-12) and REW-11-20171003 (480-125214-13).

Method 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-560-20171003 (480-125214-7), MW-561-20171003 (480-125214-8), MW-562-20171003 (480-125214-9), MW-563-20171003 (480-125214-10), REW-6-20171003 (480-125214-11), REW-7-20171003 (480-125214-12), REW-11-20171003 (480-125214-13) and REW-12-20171003 (480-125214-14).

Method SM 4500 P E: The following samples was diluted due to the nature of the sample matrix: MW-560-20171003 (480-125214-7) and MW-561-20171003 (480-125214-8). Elevated reporting limits (RLs) are provided.

Method Nitrate by calc: An abnormal inter-parameter relationship exists between Nitrate-Nitrite and Nitrite results. Reanalysis was performed and the results were confirmed for these samples: MW-562-20171003 (480-125214-9), REW-11-20171003 (480-125214-13) and REW-12-20171003 (480-125214-14).

Method 353.2: The following sample was filtered prior to analysis due to color turbidity and/or particulates: REW-12-20171003 (480-125214-14).

Method 353.2: Reanalysis of the following sample was performed outside of the analytical holding time due to nitrite value being greater than nitrate-nitrite total : REW-12-20171003 (480-125214-14).

Method 353.2: The inter-parameter relationship between nitrate/nitrite and nitrite does not meet acceptable criteria. This has been confirmed in both NO3/NO2 and NO2 analysis for these samples: MW-562-20171003 (480-125214-9) and REW-12-20171003 (480-125214-14).

Method 353.2: The inter-parameter relationship between nitrate/nitrite and nitrite does not meet acceptable criteria. This has been confirmed in both NO3/NO2 and NO2 analysis for these samples: MW-562-20171003 (480-125214-9) and REW-12-20171003 (480-125214-14).

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

Organic Prep

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

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-125214**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-125214[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 checked="" 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

A	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	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
C	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
D	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
E	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
F	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

G	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 ¹
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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

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

¹ 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: Denise L. Giglia Position: Project Manager Assistant II
 Printed Name: Denise L. Giglia Date: 10/11/17 15:01

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Client Sample ID: MW-264M-20171002

Lab Sample ID: 480-125214-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	85		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	13		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	8.4		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	20		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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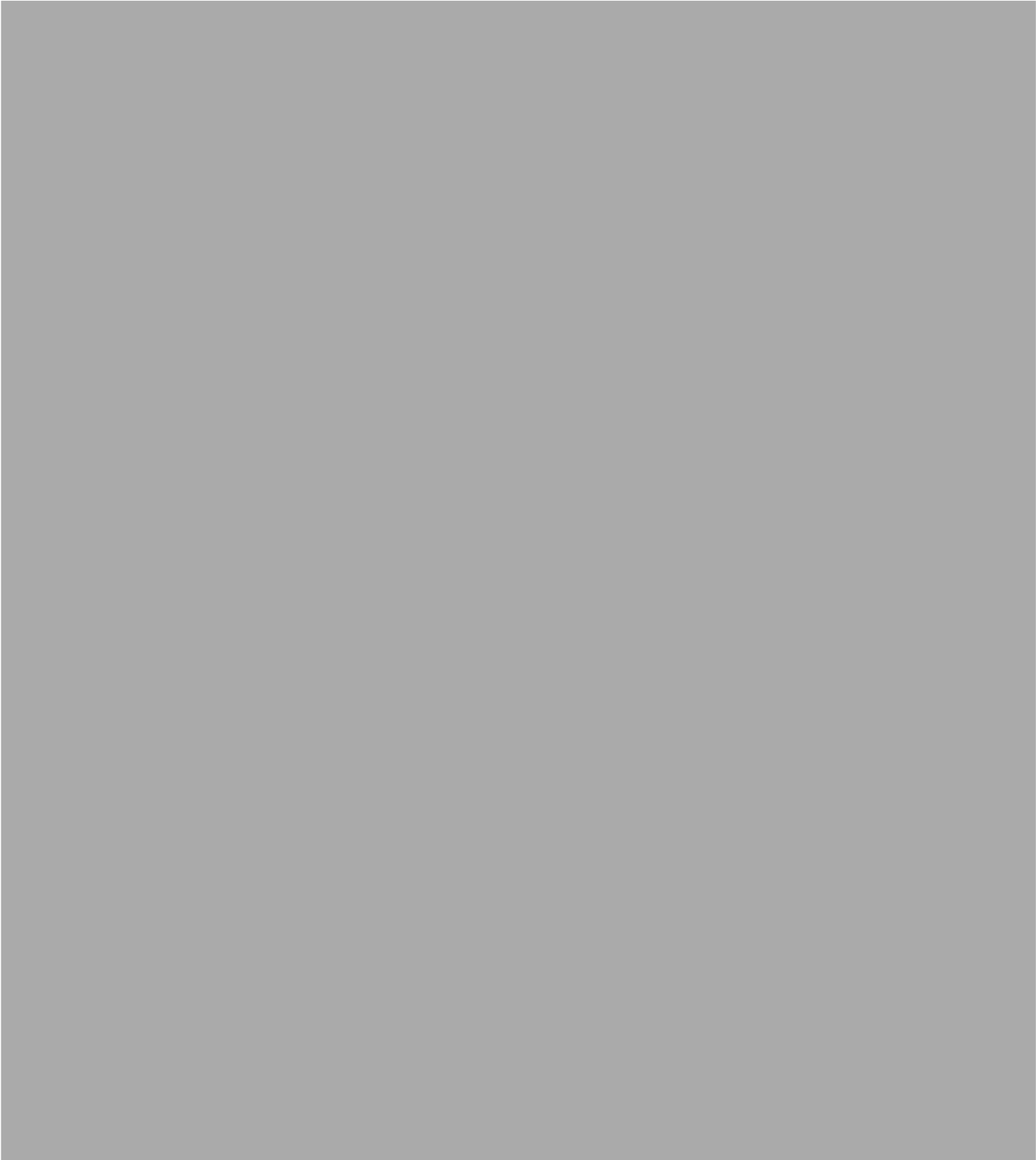
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This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-125214-16

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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Client Sample ID: MW-264M-20171002

Lab Sample ID: 480-125214-2

Date Collected: 10/02/17 11:45

Matrix: Water

Date Received: 10/04/17 02:15

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			10/09/17 16:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/09/17 16:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/09/17 16:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/09/17 16:21	1
1,1-Dichloroethane	ND		1.0		ug/L			10/09/17 16:21	1
1,1-Dichloroethene	ND		1.0		ug/L			10/09/17 16:21	1
1,1-Dichloropropene	ND		1.0		ug/L			10/09/17 16:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/09/17 16:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/09/17 16:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/09/17 16:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/09/17 16:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/09/17 16:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/09/17 16:21	1
1,2-Dichloroethane	ND		1.0		ug/L			10/09/17 16:21	1
1,2-Dichloropropane	ND		1.0		ug/L			10/09/17 16:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/09/17 16:21	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Client Sample ID: MW-264M-20171002

Lab Sample ID: 480-125214-2

Date Collected: 10/02/17 11:45

Matrix: Water

Date Received: 10/04/17 02:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/09/17 16:21	1
1,3-Dichloropropane	ND		1.0		ug/L			10/09/17 16:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/09/17 16:21	1
1,4-Dioxane	ND		50		ug/L			10/09/17 16:21	1
2,2-Dichloropropane	ND		1.0		ug/L			10/09/17 16:21	1
2-Butanone (MEK)	ND	*	10		ug/L			10/09/17 16:21	1
2-Chlorotoluene	ND		1.0		ug/L			10/09/17 16:21	1
2-Hexanone	ND		10		ug/L			10/09/17 16:21	1
4-Chlorotoluene	ND		1.0		ug/L			10/09/17 16:21	1
4-Isopropyltoluene	ND		1.0		ug/L			10/09/17 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/09/17 16:21	1
Acetone	85		50		ug/L			10/09/17 16:21	1
Benzene	ND		1.0		ug/L			10/09/17 16:21	1
Bromobenzene	ND		1.0		ug/L			10/09/17 16:21	1
Bromoform	ND		1.0		ug/L			10/09/17 16:21	1
Bromomethane	ND		2.0		ug/L			10/09/17 16:21	1
Carbon disulfide	ND		10		ug/L			10/09/17 16:21	1
Carbon tetrachloride	ND		1.0		ug/L			10/09/17 16:21	1
Chlorobenzene	ND		1.0		ug/L			10/09/17 16:21	1
Chlorobromomethane	ND		1.0		ug/L			10/09/17 16:21	1
Chlorodibromomethane	ND		0.50		ug/L			10/09/17 16:21	1
Chloroethane	ND		2.0		ug/L			10/09/17 16:21	1
Chloroform	ND		1.0		ug/L			10/09/17 16:21	1
Chloromethane	ND		2.0		ug/L			10/09/17 16:21	1
cis-1,2-Dichloroethene	13		1.0		ug/L			10/09/17 16:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/09/17 16:21	1
Dichlorobromomethane	ND		0.50		ug/L			10/09/17 16:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/09/17 16:21	1
Ethyl ether	ND		1.0		ug/L			10/09/17 16:21	1
Ethylbenzene	ND		1.0		ug/L			10/09/17 16:21	1
Ethylene Dibromide	ND		1.0		ug/L			10/09/17 16:21	1
Hexachlorobutadiene	ND		0.40		ug/L			10/09/17 16:21	1
Isopropyl ether	ND		10		ug/L			10/09/17 16:21	1
Isopropylbenzene	ND		1.0		ug/L			10/09/17 16:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/09/17 16:21	1
Methylene Chloride	ND		1.0		ug/L			10/09/17 16:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/09/17 16:21	1
Naphthalene	ND		5.0		ug/L			10/09/17 16:21	1
n-Butylbenzene	ND		1.0		ug/L			10/09/17 16:21	1
N-Propylbenzene	ND		1.0		ug/L			10/09/17 16:21	1
o-Xylene	ND		1.0		ug/L			10/09/17 16:21	1
sec-Butylbenzene	ND		1.0		ug/L			10/09/17 16:21	1
Styrene	ND		1.0		ug/L			10/09/17 16:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/09/17 16:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/09/17 16:21	1
tert-Butylbenzene	ND		1.0		ug/L			10/09/17 16:21	1
Tetrachloroethene	ND		1.0		ug/L			10/09/17 16:21	1
Tetrahydrofuran	ND		10		ug/L			10/09/17 16:21	1
Toluene	ND		1.0		ug/L			10/09/17 16:21	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Client Sample ID: MW-264M-20171002

Lab Sample ID: 480-125214-2

Date Collected: 10/02/17 11:45

Matrix: Water

Date Received: 10/04/17 02:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/09/17 16:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/09/17 16:21	1
Trichloroethene	8.4		1.0		ug/L			10/09/17 16:21	1
Trichlorofluoromethane	ND		1.0		ug/L			10/09/17 16:21	1
Vinyl chloride	20		1.0		ug/L			10/09/17 16:21	1
Dibromomethane	ND		1.0		ug/L			10/09/17 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		10/09/17 16:21	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		10/09/17 16:21	1
4-Bromofluorobenzene (Surr)	85		70 - 130		10/09/17 16:21	1



Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wavland

TestAmerica Job ID: 480-125214-1

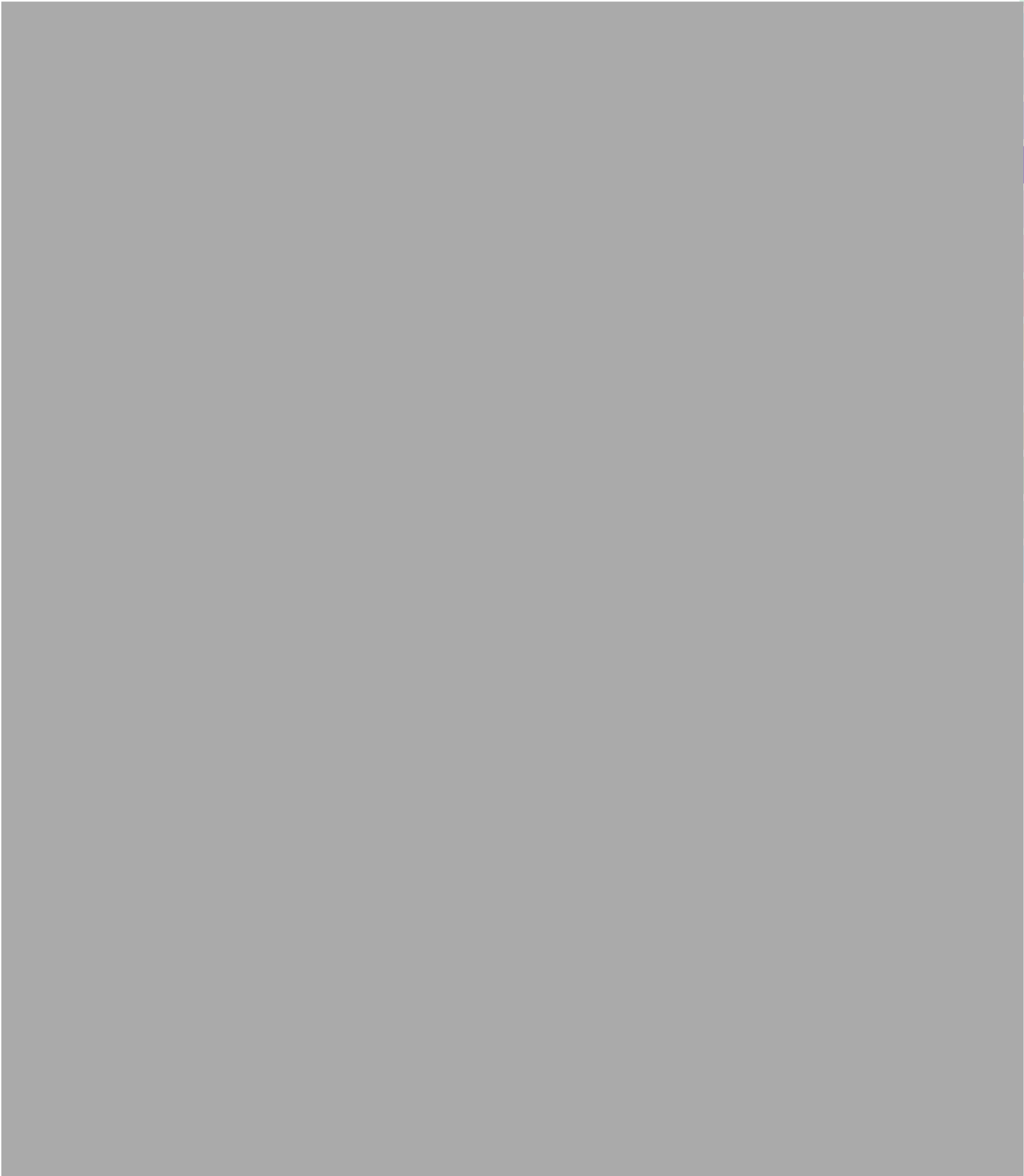


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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

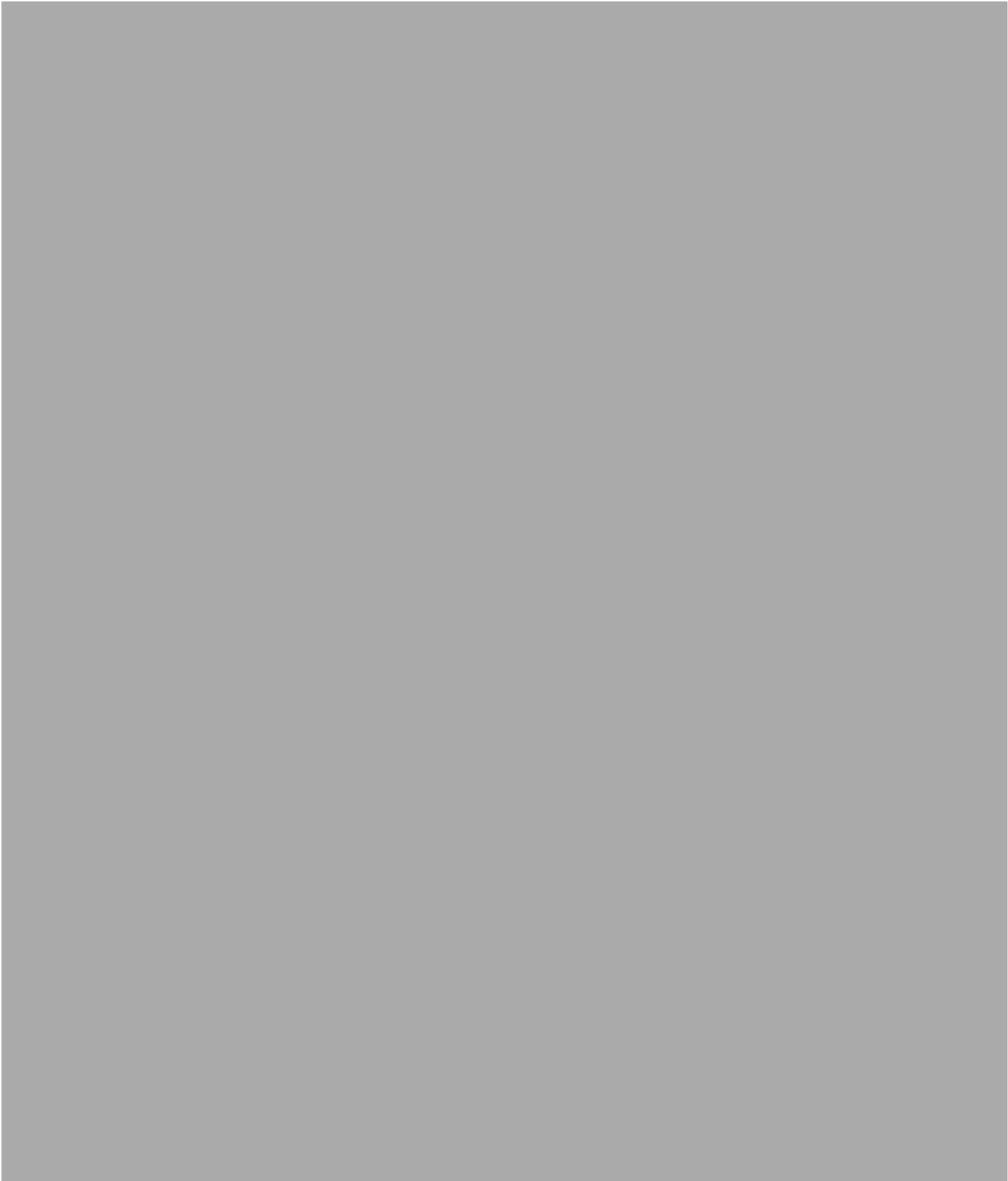


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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

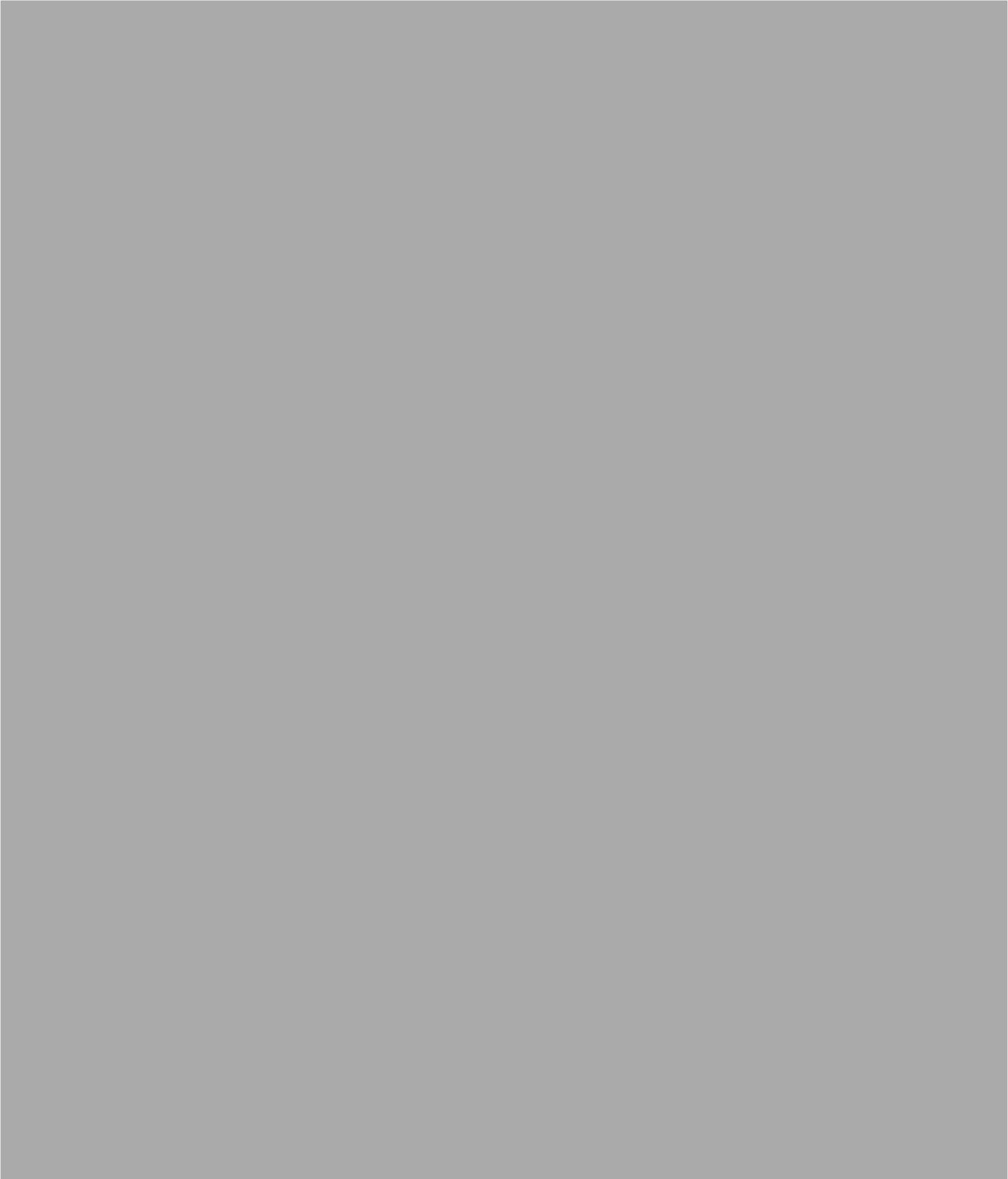


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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

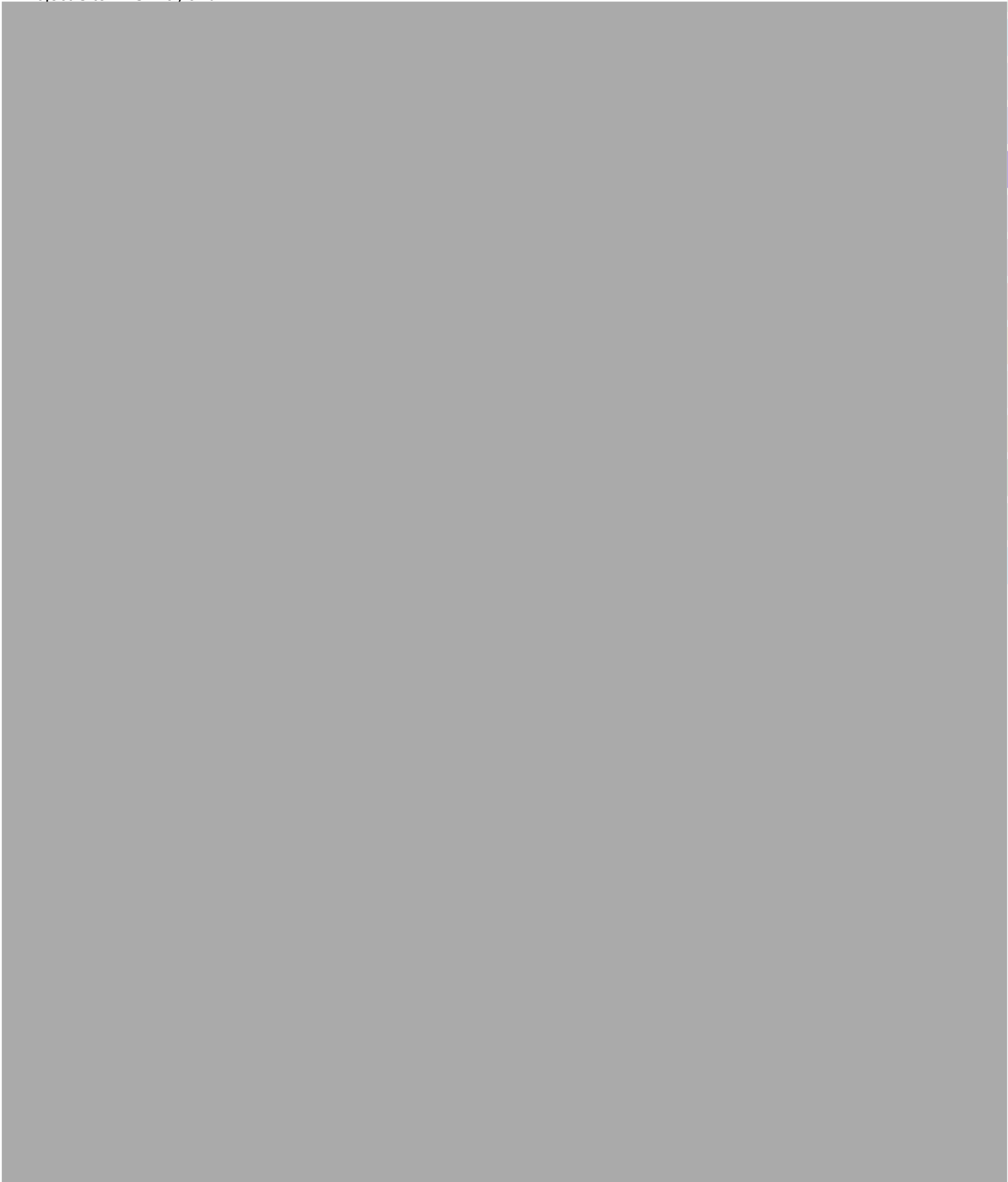


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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



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TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wavland

TestAmerica Job ID: 480-125214-1

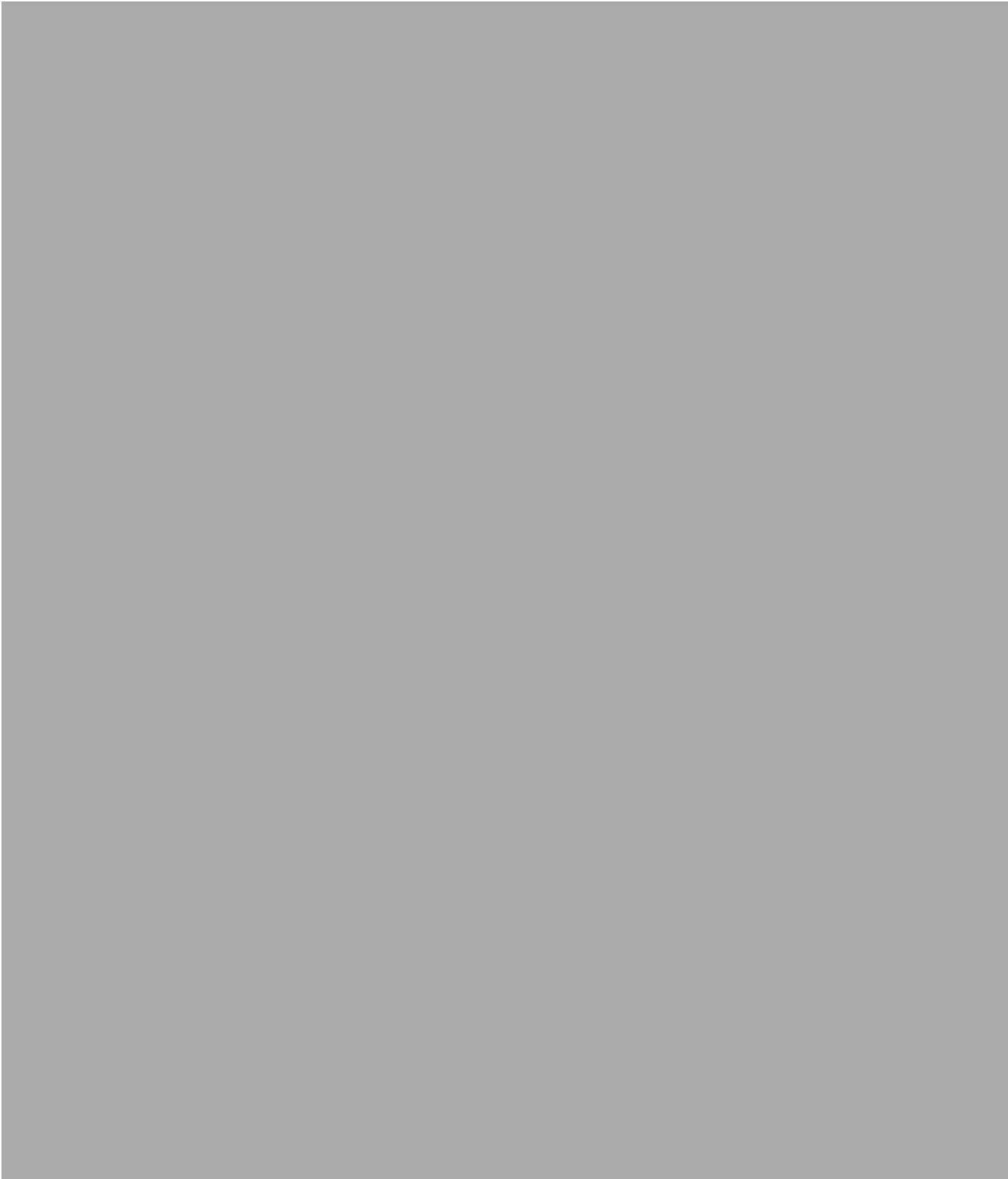


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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

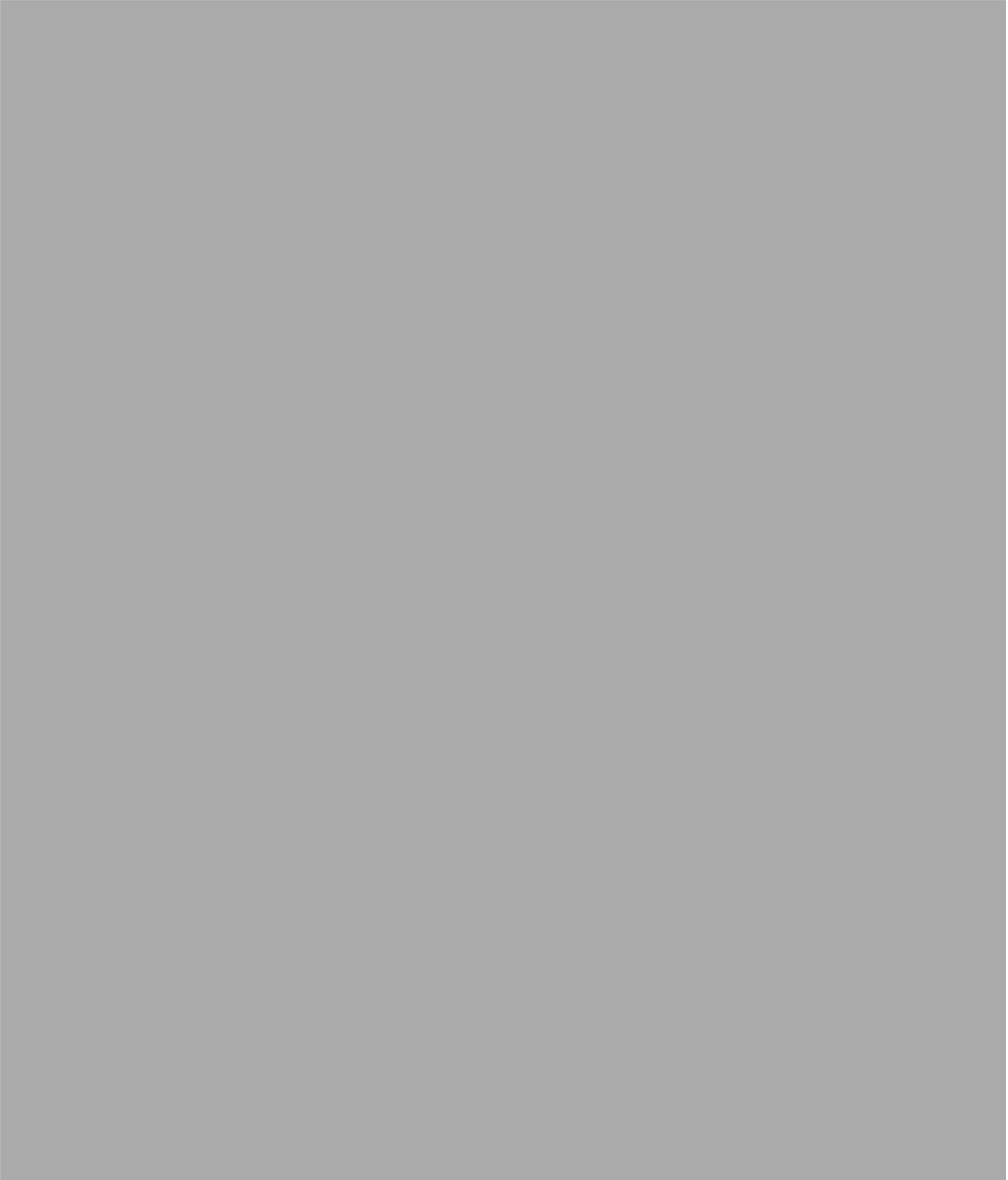


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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

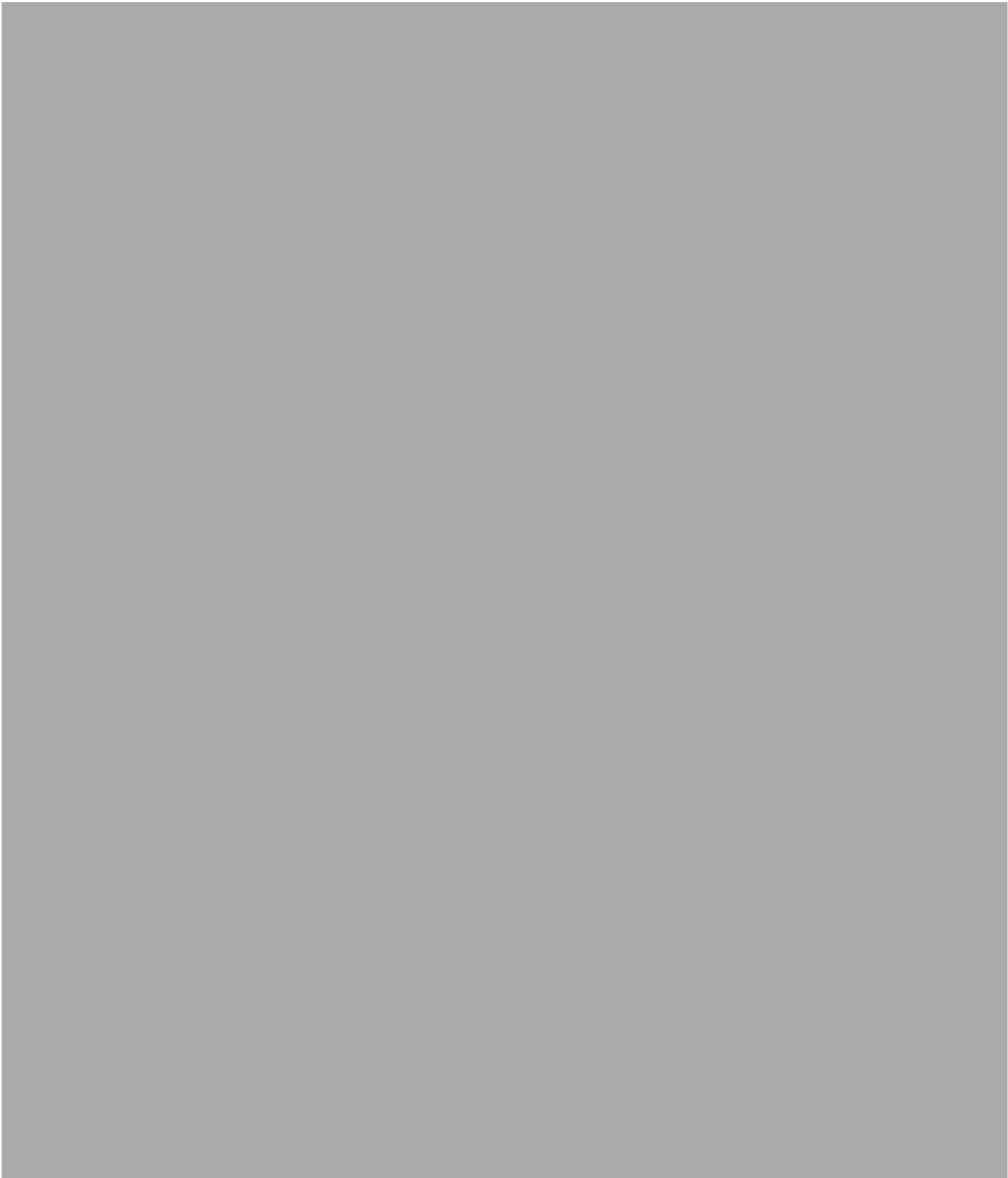


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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

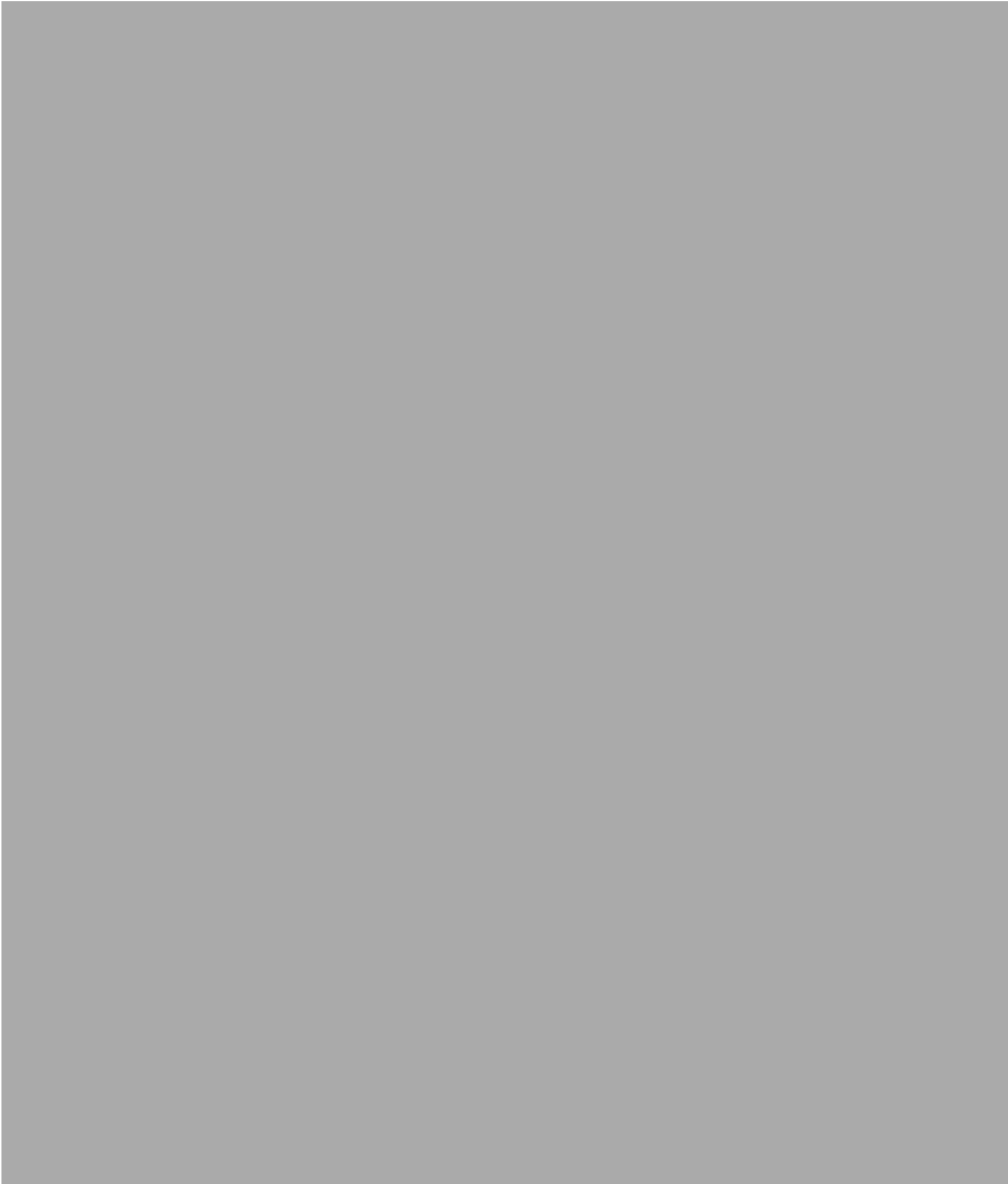


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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

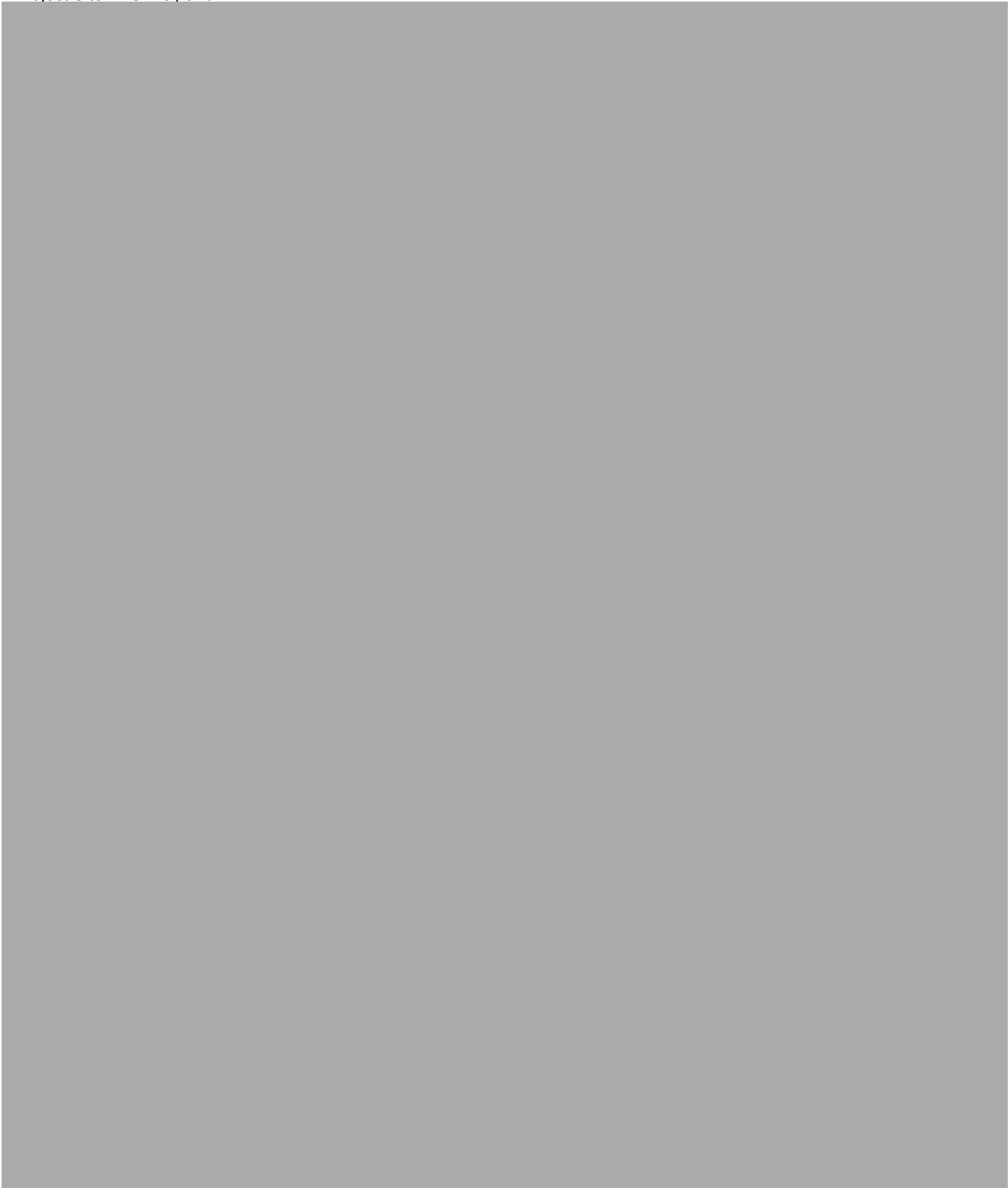


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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

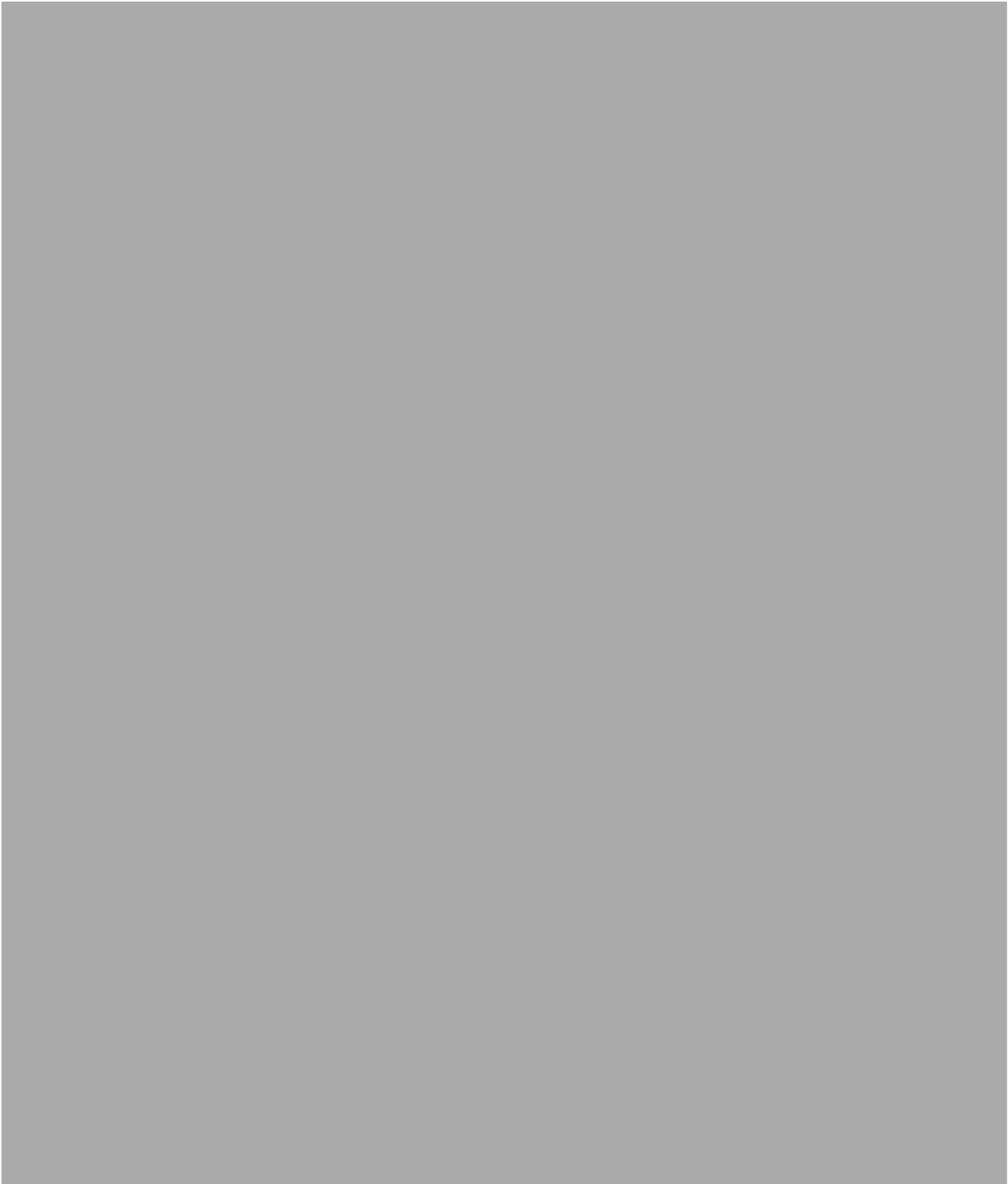


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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

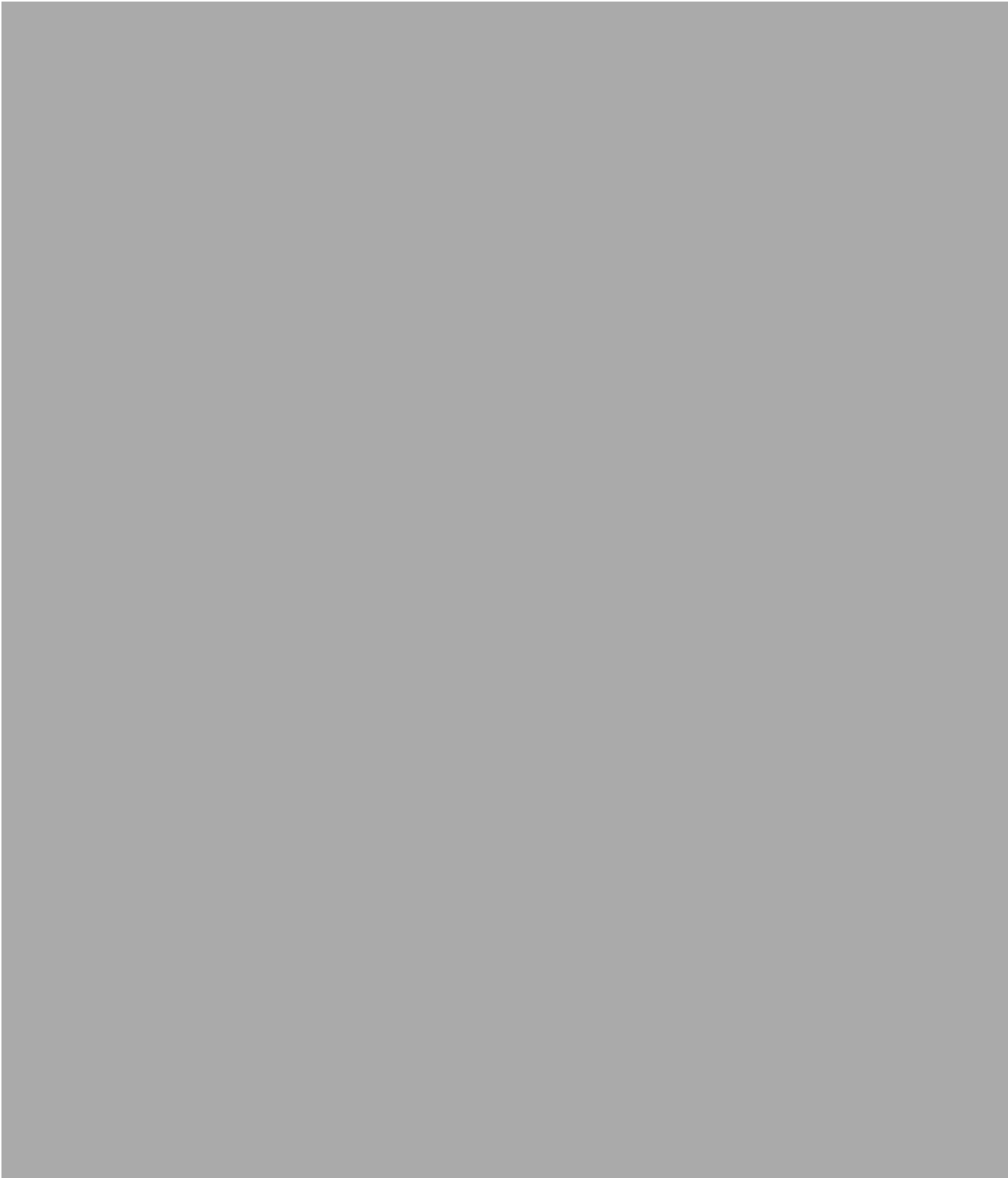


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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



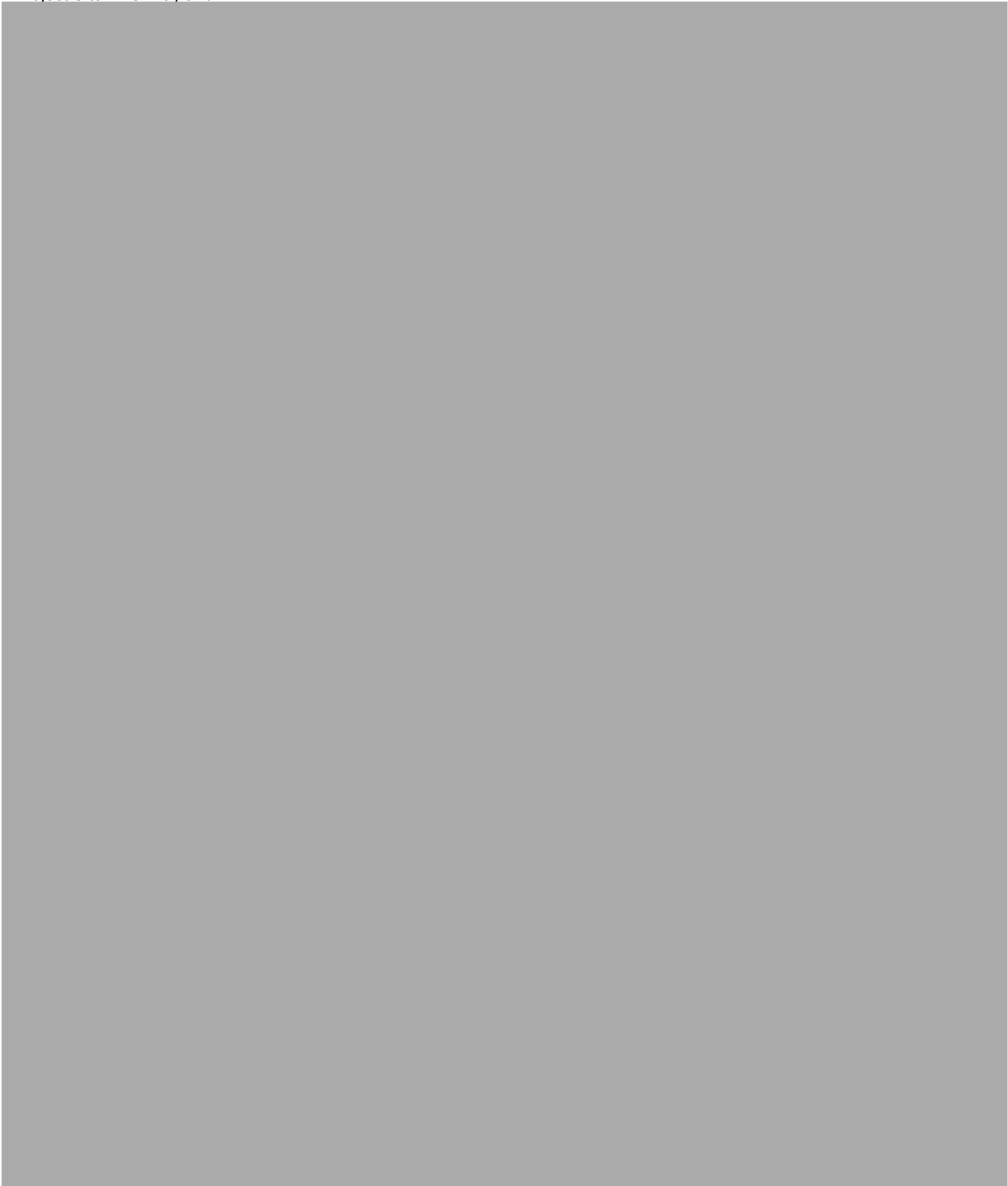
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TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

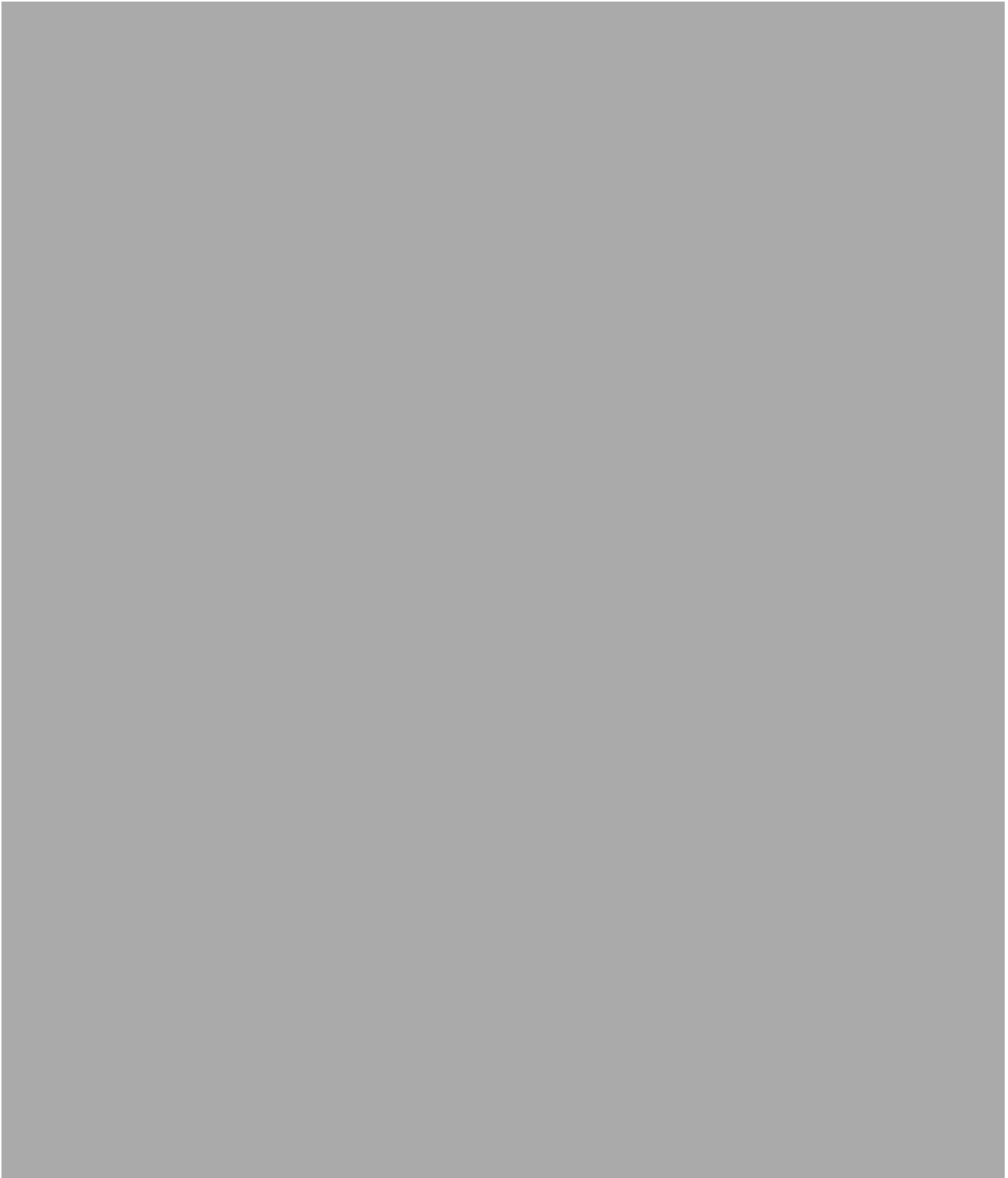


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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



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TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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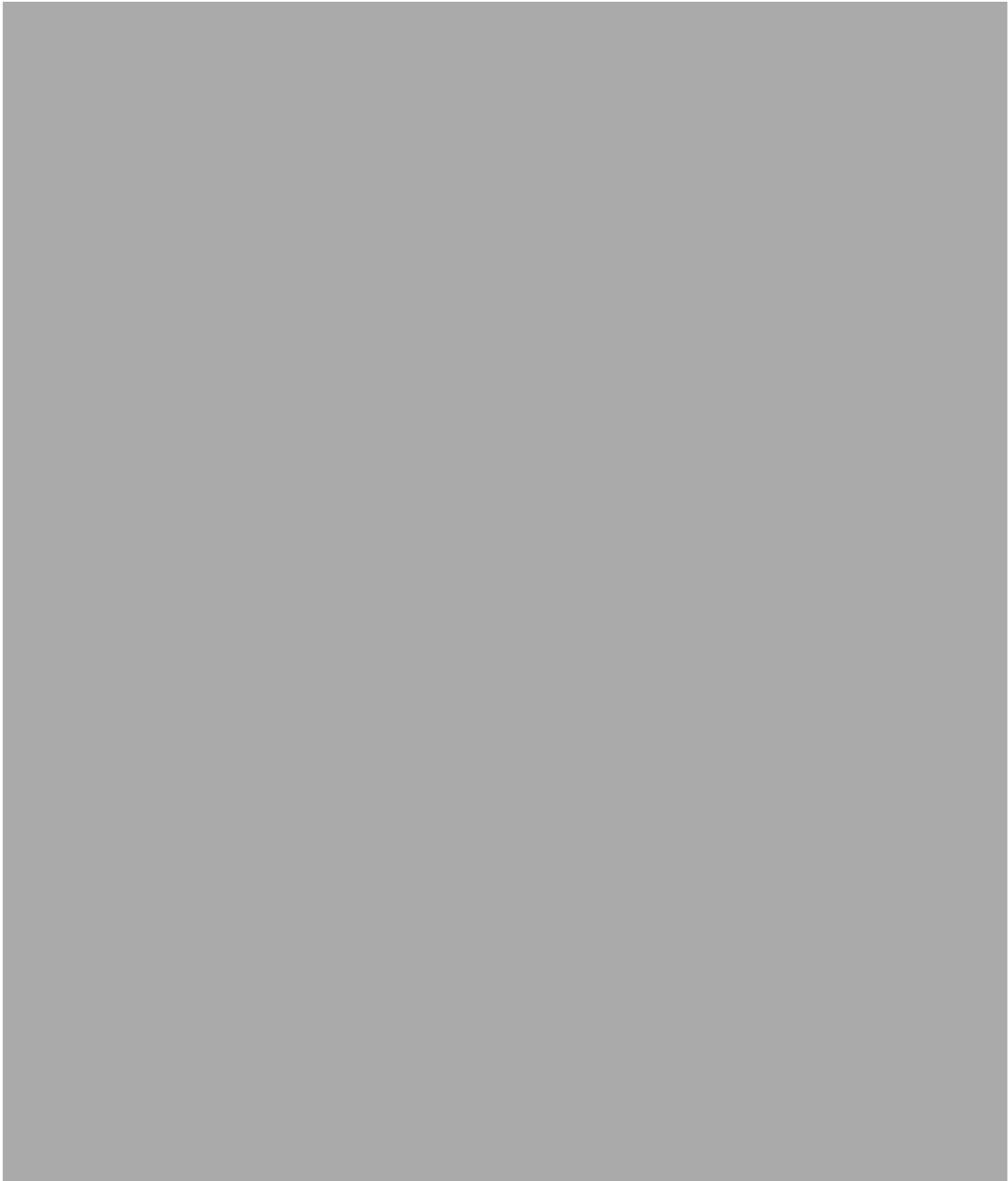
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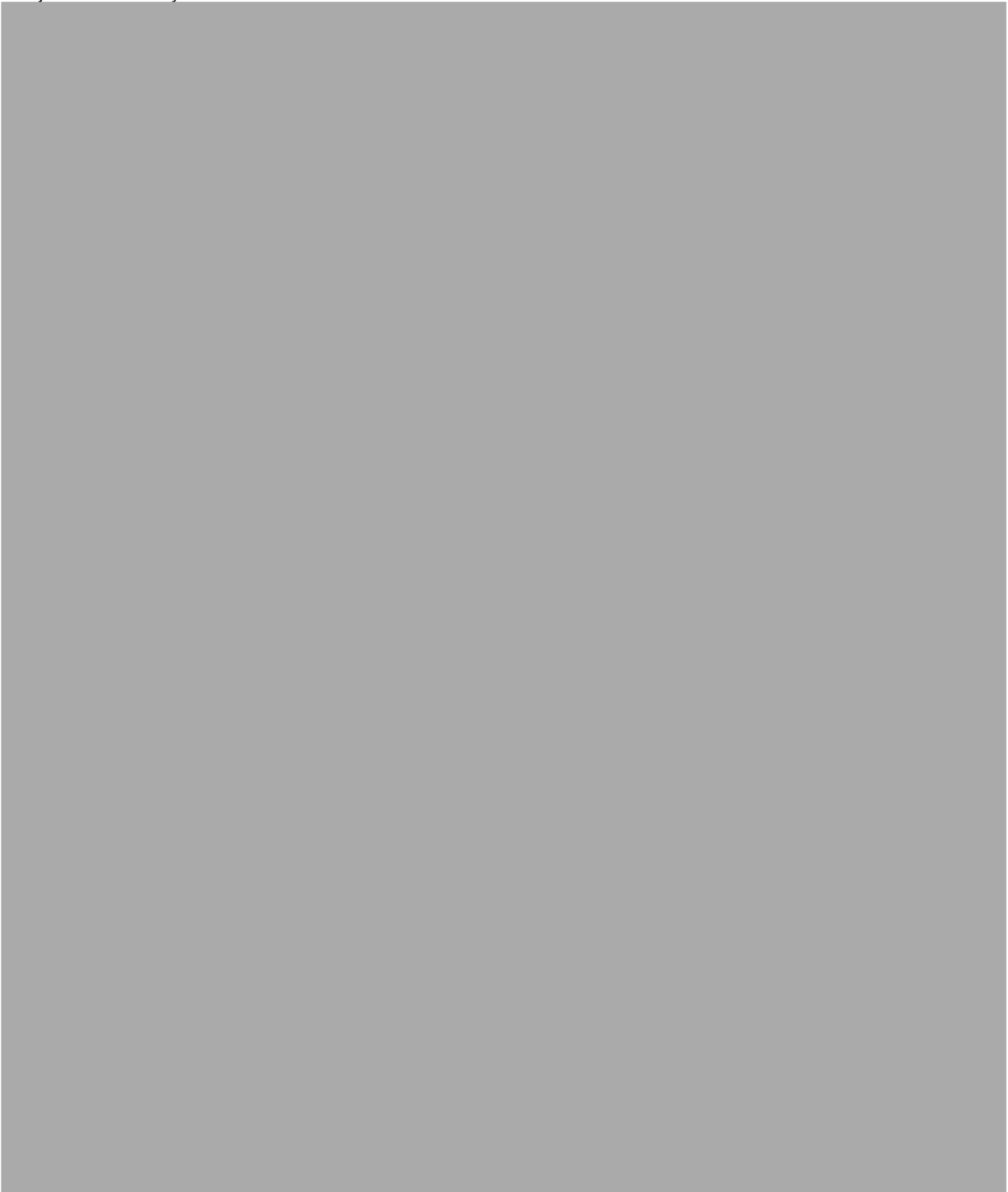


TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



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TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-125214-16

Date Collected: 10/03/17 00:00

Matrix: Water

Date Received: 10/04/17 02:15

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			10/10/17 04:04	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/17 04:04	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/17 04:04	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/17 04:04	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/17 04:04	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/17 04:04	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/17 04:04	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/17 04:04	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/17 04:04	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/17 04:04	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/17 04:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/17 04:04	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/17 04:04	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/17 04:04	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/17 04:04	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/17 04:04	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/17 04:04	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/17 04:04	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/17 04:04	1
1,4-Dioxane	ND		50		ug/L			10/10/17 04:04	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/17 04:04	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/17 04:04	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/17 04:04	1
2-Hexanone	ND		10		ug/L			10/10/17 04:04	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/17 04:04	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/17 04:04	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/17 04:04	1
Acetone	ND		50		ug/L			10/10/17 04:04	1
Benzene	ND		1.0		ug/L			10/10/17 04:04	1
Bromobenzene	ND		1.0		ug/L			10/10/17 04:04	1
Bromoform	ND		1.0		ug/L			10/10/17 04:04	1
Bromomethane	ND		2.0		ug/L			10/10/17 04:04	1
Carbon disulfide	ND		10		ug/L			10/10/17 04:04	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/17 04:04	1
Chlorobenzene	ND		1.0		ug/L			10/10/17 04:04	1
Chlorobromomethane	ND		1.0		ug/L			10/10/17 04:04	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/17 04:04	1
Chloroethane	ND		2.0		ug/L			10/10/17 04:04	1
Chloroform	ND		1.0		ug/L			10/10/17 04:04	1
Chloromethane	ND		2.0		ug/L			10/10/17 04:04	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/17 04:04	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/17 04:04	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/17 04:04	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/17 04:04	1
Ethyl ether	ND		1.0		ug/L			10/10/17 04:04	1
Ethylbenzene	ND		1.0		ug/L			10/10/17 04:04	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/17 04:04	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/17 04:04	1
Isopropyl ether	ND		10		ug/L			10/10/17 04:04	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-125214-16

Date Collected: 10/03/17 00:00

Matrix: Water

Date Received: 10/04/17 02:15

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			10/10/17 04:04	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/17 04:04	1
Methylene Chloride	ND		1.0		ug/L			10/10/17 04:04	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/17 04:04	1
Naphthalene	ND		5.0		ug/L			10/10/17 04:04	1
n-Butylbenzene	ND		1.0		ug/L			10/10/17 04:04	1
N-Propylbenzene	ND		1.0		ug/L			10/10/17 04:04	1
o-Xylene	ND		1.0		ug/L			10/10/17 04:04	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/17 04:04	1
Styrene	ND		1.0		ug/L			10/10/17 04:04	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/17 04:04	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/17 04:04	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/17 04:04	1
Tetrachloroethene	ND		1.0		ug/L			10/10/17 04:04	1
Tetrahydrofuran	ND		10		ug/L			10/10/17 04:04	1
Toluene	ND		1.0		ug/L			10/10/17 04:04	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/17 04:04	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/17 04:04	1
Trichloroethene	ND		1.0		ug/L			10/10/17 04:04	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/17 04:04	1
Vinyl chloride	ND		1.0		ug/L			10/10/17 04:04	1
Dibromomethane	ND		1.0		ug/L			10/10/17 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		10/10/17 04:04	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		10/10/17 04:04	1
4-Bromofluorobenzene (Surr)	85		70 - 130		10/10/17 04:04	1

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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)	12DCE (70-130)	BFB (70-130)
480-125214-1	DEP-21-20171002	100	99	80
480-125214-2	MW-264M-20171002	98	87	85
480-125214-3	MW-266MA-20171002	98	94	89
480-125214-4	MW-266MB-20171002	101	96	86
480-125214-5	MW-267M-20171002	100	91	86
480-125214-6	MW-269MA-20171002	100	98	87
480-125214-7	MW-560-20171003	101	97	87
480-125214-8	MW-561-20171003	100	96	87
480-125214-9	MW-562-20171003	99	89	89
480-125214-10	MW-563-20171003	100	95	86
480-125214-11	REW-6-20171003	101	94	86
480-125214-12	REW-7-20171003	100	101	88
480-125214-13	REW-11-20171003	97	95	84
480-125214-14	REW-12-20171003	99	89	87
480-125214-15	DUP1-20171003	97	94	83
480-125214-16	TRIP BLANKS	98	93	85
LCS 480-380799/5	Lab Control Sample	101	96	87
LCS 480-380932/5	Lab Control Sample	98	93	84
LCS 480-381006/4	Lab Control Sample	100	92	84
LCSD 480-380799/6	Lab Control Sample Dup	101	94	93
LCSD 480-380932/6	Lab Control Sample Dup	102	90	88
LCSD 480-381006/5	Lab Control Sample Dup	99	94	83
MB 480-380799/8	Method Blank	99	92	85
MB 480-380932/8	Method Blank	101	93	85
MB 480-381006/7	Method Blank	99	91	83

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		14DD8 (46-130)
480-125214-3	MW-266MA-20171002	66
480-125214-5	MW-267M-20171002	75
480-125214-6	MW-269MA-20171002	69
LCS 200-121935/2-A	Lab Control Sample	90
MB 200-121935/1-A	Method Blank	74

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: MB 480-380799/8

Matrix: Water

Analysis Batch: 380799

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			10/09/17 12:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/09/17 12:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/09/17 12:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/09/17 12:36	1
1,1-Dichloroethane	ND		1.0		ug/L			10/09/17 12:36	1
1,1-Dichloroethene	ND		1.0		ug/L			10/09/17 12:36	1
1,1-Dichloropropene	ND		1.0		ug/L			10/09/17 12:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/09/17 12:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/09/17 12:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/09/17 12:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/09/17 12:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/09/17 12:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/09/17 12:36	1
1,2-Dichloroethane	ND		1.0		ug/L			10/09/17 12:36	1
1,2-Dichloropropane	ND		1.0		ug/L			10/09/17 12:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/09/17 12:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/09/17 12:36	1
1,3-Dichloropropane	ND		1.0		ug/L			10/09/17 12:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/09/17 12:36	1
1,4-Dioxane	ND		50		ug/L			10/09/17 12:36	1
2,2-Dichloropropane	ND		1.0		ug/L			10/09/17 12:36	1
2-Butanone (MEK)	ND		10		ug/L			10/09/17 12:36	1
2-Chlorotoluene	ND		1.0		ug/L			10/09/17 12:36	1
2-Hexanone	ND		10		ug/L			10/09/17 12:36	1
4-Chlorotoluene	ND		1.0		ug/L			10/09/17 12:36	1
4-Isopropyltoluene	ND		1.0		ug/L			10/09/17 12:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/09/17 12:36	1
Acetone	ND		50		ug/L			10/09/17 12:36	1
Benzene	ND		1.0		ug/L			10/09/17 12:36	1
Bromobenzene	ND		1.0		ug/L			10/09/17 12:36	1
Bromoform	ND		1.0		ug/L			10/09/17 12:36	1
Bromomethane	ND		2.0		ug/L			10/09/17 12:36	1
Carbon disulfide	ND		10		ug/L			10/09/17 12:36	1
Carbon tetrachloride	ND		1.0		ug/L			10/09/17 12:36	1
Chlorobenzene	ND		1.0		ug/L			10/09/17 12:36	1
Chlorobromomethane	ND		1.0		ug/L			10/09/17 12:36	1
Chlorodibromomethane	ND		0.50		ug/L			10/09/17 12:36	1
Chloroethane	ND		2.0		ug/L			10/09/17 12:36	1
Chloroform	ND		1.0		ug/L			10/09/17 12:36	1
Chloromethane	ND		2.0		ug/L			10/09/17 12:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/09/17 12:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/09/17 12:36	1
Dichlorobromomethane	ND		0.50		ug/L			10/09/17 12:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/09/17 12:36	1
Ethyl ether	ND		1.0		ug/L			10/09/17 12:36	1
Ethylbenzene	ND		1.0		ug/L			10/09/17 12:36	1
Ethylene Dibromide	ND		1.0		ug/L			10/09/17 12:36	1
Hexachlorobutadiene	ND		0.40		ug/L			10/09/17 12:36	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: MB 480-380799/8
Matrix: Water
Analysis Batch: 380799

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			10/09/17 12:36	1
Isopropylbenzene	ND		1.0		ug/L			10/09/17 12:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/09/17 12:36	1
Methylene Chloride	ND		1.0		ug/L			10/09/17 12:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/09/17 12:36	1
Naphthalene	ND		5.0		ug/L			10/09/17 12:36	1
n-Butylbenzene	ND		1.0		ug/L			10/09/17 12:36	1
N-Propylbenzene	ND		1.0		ug/L			10/09/17 12:36	1
o-Xylene	ND		1.0		ug/L			10/09/17 12:36	1
sec-Butylbenzene	ND		1.0		ug/L			10/09/17 12:36	1
Styrene	ND		1.0		ug/L			10/09/17 12:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/09/17 12:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/09/17 12:36	1
tert-Butylbenzene	ND		1.0		ug/L			10/09/17 12:36	1
Tetrachloroethene	ND		1.0		ug/L			10/09/17 12:36	1
Tetrahydrofuran	ND		10		ug/L			10/09/17 12:36	1
Toluene	ND		1.0		ug/L			10/09/17 12:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/09/17 12:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/09/17 12:36	1
Trichloroethene	ND		1.0		ug/L			10/09/17 12:36	1
Trichlorofluoromethane	ND		1.0		ug/L			10/09/17 12:36	1
Vinyl chloride	ND		1.0		ug/L			10/09/17 12:36	1
Dibromomethane	ND		1.0		ug/L			10/09/17 12:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		10/09/17 12:36	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		10/09/17 12:36	1
4-Bromofluorobenzene (Surr)	85		70 - 130		10/09/17 12:36	1

Lab Sample ID: LCS 480-380799/5
Matrix: Water
Analysis Batch: 380799

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	22.5		ug/L		90	70 - 130
1,1,1-Trichloroethane	25.0	21.8		ug/L		87	70 - 130
1,1,2,2-Tetrachloroethane	25.0	28.9		ug/L		115	70 - 130
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	70 - 130
1,1-Dichloroethane	25.0	24.0		ug/L		96	70 - 130
1,1-Dichloroethene	25.0	21.5		ug/L		86	70 - 130
1,1-Dichloropropene	25.0	24.3		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	25.0	21.7		ug/L		87	70 - 130
1,2,3-Trichloropropane	25.0	25.4		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	25.0	20.8		ug/L		83	70 - 130
1,2,4-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.7		ug/L		91	70 - 130
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	22.1		ug/L		88	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: LCS 480-380799/5

Matrix: Water

Analysis Batch: 380799

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	22.9		ug/L		91	70 - 130
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,3-Dichloropropane	25.0	27.9		ug/L		111	70 - 130
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,4-Dioxane	500	423		ug/L		85	70 - 130
2,2-Dichloropropane	25.0	23.2		ug/L		93	70 - 130
2-Butanone (MEK)	125	205	*	ug/L		164	70 - 130
2-Chlorotoluene	25.0	24.4		ug/L		97	70 - 130
2-Hexanone	125	127		ug/L		101	70 - 130
4-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	70 - 130
Acetone	125	121		ug/L		97	70 - 130
Benzene	25.0	25.0		ug/L		100	70 - 130
Bromobenzene	25.0	21.7		ug/L		87	70 - 130
Bromoform	25.0	21.1		ug/L		84	70 - 130
Bromomethane	25.0	21.3		ug/L		85	70 - 130
Carbon disulfide	25.0	24.7		ug/L		99	70 - 130
Carbon tetrachloride	25.0	20.0		ug/L		80	70 - 130
Chlorobenzene	25.0	23.8		ug/L		95	70 - 130
Chlorobromomethane	25.0	21.0		ug/L		84	70 - 130
Chlorodibromomethane	25.0	21.6		ug/L		86	70 - 130
Chloroethane	25.0	22.9		ug/L		91	70 - 130
Chloroform	25.0	22.7		ug/L		91	70 - 130
Chloromethane	25.0	23.4		ug/L		94	70 - 130
cis-1,2-Dichloroethene	25.0	22.5		ug/L		90	70 - 130
cis-1,3-Dichloropropene	25.0	21.9		ug/L		87	70 - 130
Dichlorobromomethane	25.0	22.7		ug/L		91	70 - 130
Dichlorodifluoromethane	25.0	27.9		ug/L		112	70 - 130
Ethyl ether	25.0	19.9		ug/L		80	70 - 130
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130
Ethylene Dibromide	25.0	25.6		ug/L		102	70 - 130
Hexachlorobutadiene	25.0	21.7		ug/L		87	70 - 130
Isopropyl ether	25.0	22.5		ug/L		90	70 - 130
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 130
Methyl tert-butyl ether	25.0	23.8		ug/L		95	70 - 130
Methylene Chloride	25.0	20.8		ug/L		83	70 - 130
m-Xylene & p-Xylene	25.0	22.9		ug/L		92	70 - 130
Naphthalene	25.0	25.0		ug/L		100	70 - 130
n-Butylbenzene	25.0	27.3		ug/L		109	70 - 130
N-Propylbenzene	25.0	26.3		ug/L		105	70 - 130
o-Xylene	25.0	22.9		ug/L		92	70 - 130
sec-Butylbenzene	25.0	26.1		ug/L		105	70 - 130
Styrene	25.0	23.8		ug/L		95	70 - 130
Tert-amyl methyl ether	25.0	24.5		ug/L		98	70 - 130
Tert-butyl ethyl ether	25.0	22.8		ug/L		91	70 - 130
tert-Butylbenzene	25.0	24.3		ug/L		97	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: LCS 480-380799/5

Matrix: Water

Analysis Batch: 380799

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130
Tetrahydrofuran	50.0	57.2		ug/L		114	70 - 130
Toluene	25.0	24.3		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
trans-1,3-Dichloropropene	25.0	25.1		ug/L		100	70 - 130
Trichloroethene	25.0	22.6		ug/L		90	70 - 130
Trichlorofluoromethane	25.0	23.9		ug/L		96	70 - 130
Vinyl chloride	25.0	23.5		ug/L		94	70 - 130
Dibromomethane	25.0	23.3		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	87		70 - 130

Lab Sample ID: LCSD 480-380799/6

Matrix: Water

Analysis Batch: 380799

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	24.1		ug/L		96	70 - 130	7	20
1,1,1-Trichloroethane	25.0	23.6		ug/L		94	70 - 130	8	20
1,1,1,2,2-Tetrachloroethane	25.0	29.3		ug/L		117	70 - 130	1	20
1,1,1,2-Trichloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
1,1-Dichloroethane	25.0	25.5		ug/L		102	70 - 130	6	20
1,1-Dichloroethene	25.0	23.9		ug/L		95	70 - 130	11	20
1,1-Dichloropropene	25.0	27.4		ug/L		110	70 - 130	12	20
1,2,3-Trichlorobenzene	25.0	21.2		ug/L		85	70 - 130	2	20
1,2,3-Trichloropropane	25.0	24.9		ug/L		100	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	20.9		ug/L		84	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	26.1		ug/L		104	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	21.6		ug/L		86	70 - 130	5	20
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	2	20
1,2-Dichloroethane	25.0	23.7		ug/L		95	70 - 130	7	20
1,2-Dichloropropane	25.0	23.6		ug/L		94	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130	3	20
1,3-Dichlorobenzene	25.0	24.6		ug/L		99	70 - 130	2	20
1,3-Dichloropropane	25.0	29.3		ug/L		117	70 - 130	5	20
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	1	20
1,4-Dioxane	500	501		ug/L		100	70 - 130	17	20
2,2-Dichloropropane	25.0	24.6		ug/L		98	70 - 130	6	20
2-Butanone (MEK)	125	203	*	ug/L		162	70 - 130	1	20
2-Chlorotoluene	25.0	25.2		ug/L		101	70 - 130	4	20
2-Hexanone	125	128		ug/L		102	70 - 130	1	20
4-Chlorotoluene	25.0	27.3		ug/L		109	70 - 130	5	20
4-Isopropyltoluene	25.0	25.5		ug/L		102	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	70 - 130	3	20
Acetone	125	121		ug/L		97	70 - 130	0	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: LCSD 480-380799/6

Matrix: Water

Analysis Batch: 380799

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
Benzene	25.0	26.1		ug/L		104	70 - 130	4	20
Bromobenzene	25.0	22.5		ug/L		90	70 - 130	3	20
Bromoform	25.0	21.9		ug/L		88	70 - 130	4	20
Bromomethane	25.0	23.8		ug/L		95	70 - 130	11	20
Carbon disulfide	25.0	26.1		ug/L		104	70 - 130	5	20
Carbon tetrachloride	25.0	21.9		ug/L		88	70 - 130	9	20
Chlorobenzene	25.0	25.6		ug/L		102	70 - 130	7	20
Chlorobromomethane	25.0	22.1		ug/L		89	70 - 130	5	20
Chlorodibromomethane	25.0	23.1		ug/L		93	70 - 130	7	20
Chloroethane	25.0	25.3		ug/L		101	70 - 130	10	20
Chloroform	25.0	23.9		ug/L		96	70 - 130	5	20
Chloromethane	25.0	25.2		ug/L		101	70 - 130	7	20
cis-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 130	10	20
cis-1,3-Dichloropropene	25.0	22.7		ug/L		91	70 - 130	4	20
Dichlorobromomethane	25.0	23.3		ug/L		93	70 - 130	3	20
Dichlorodifluoromethane	25.0	30.5		ug/L		122	70 - 130	9	20
Ethyl ether	25.0	21.0		ug/L		84	70 - 130	5	20
Ethylbenzene	25.0	27.1		ug/L		108	70 - 130	9	20
Ethylene Dibromide	25.0	26.6		ug/L		106	70 - 130	4	20
Hexachlorobutadiene	25.0	22.7		ug/L		91	70 - 130	5	20
Isopropyl ether	25.0	23.4		ug/L		94	70 - 130	4	20
Isopropylbenzene	25.0	27.2		ug/L		109	70 - 130	5	20
Methyl tert-butyl ether	25.0	24.4		ug/L		98	70 - 130	3	20
Methylene Chloride	25.0	22.4		ug/L		89	70 - 130	7	20
m-Xylene & p-Xylene	25.0	25.3		ug/L		101	70 - 130	10	20
Naphthalene	25.0	24.6		ug/L		98	70 - 130	2	20
n-Butylbenzene	25.0	28.6		ug/L		114	70 - 130	4	20
N-Propylbenzene	25.0	27.9		ug/L		111	70 - 130	6	20
o-Xylene	25.0	25.4		ug/L		101	70 - 130	10	20
sec-Butylbenzene	25.0	27.5		ug/L		110	70 - 130	5	20
Styrene	25.0	25.4		ug/L		101	70 - 130	7	20
Tert-amyl methyl ether	25.0	24.4		ug/L		97	70 - 130	1	20
Tert-butyl ethyl ether	25.0	23.8		ug/L		95	70 - 130	4	20
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 130	4	20
Tetrachloroethene	25.0	29.1		ug/L		117	70 - 130	13	20
Tetrahydrofuran	50.0	57.4		ug/L		115	70 - 130	0	20
Toluene	25.0	26.0		ug/L		104	70 - 130	6	20
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 130	6	20
Trichloroethene	25.0	24.3		ug/L		97	70 - 130	8	20
Trichlorofluoromethane	25.0	26.5		ug/L		106	70 - 130	10	20
Vinyl chloride	25.0	25.8		ug/L		103	70 - 130	10	20
Dibromomethane	25.0	22.6		ug/L		90	70 - 130	3	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Lab Sample ID: MB 480-380932/8
 Matrix: Water
 Analysis Batch: 380932

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			10/09/17 23:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/09/17 23:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/09/17 23:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/09/17 23:36	1
1,1-Dichloroethane	ND		1.0		ug/L			10/09/17 23:36	1
1,1-Dichloroethene	ND		1.0		ug/L			10/09/17 23:36	1
1,1-Dichloropropene	ND		1.0		ug/L			10/09/17 23:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/09/17 23:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/09/17 23:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/09/17 23:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/09/17 23:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/09/17 23:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/09/17 23:36	1
1,2-Dichloroethane	ND		1.0		ug/L			10/09/17 23:36	1
1,2-Dichloropropane	ND		1.0		ug/L			10/09/17 23:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/09/17 23:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/09/17 23:36	1
1,3-Dichloropropane	ND		1.0		ug/L			10/09/17 23:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/09/17 23:36	1
1,4-Dioxane	ND		50		ug/L			10/09/17 23:36	1
2,2-Dichloropropane	ND		1.0		ug/L			10/09/17 23:36	1
2-Butanone (MEK)	ND		10		ug/L			10/09/17 23:36	1
2-Chlorotoluene	ND		1.0		ug/L			10/09/17 23:36	1
2-Hexanone	ND		10		ug/L			10/09/17 23:36	1
4-Chlorotoluene	ND		1.0		ug/L			10/09/17 23:36	1
4-Isopropyltoluene	ND		1.0		ug/L			10/09/17 23:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/09/17 23:36	1
Acetone	ND		50		ug/L			10/09/17 23:36	1
Benzene	ND		1.0		ug/L			10/09/17 23:36	1
Bromobenzene	ND		1.0		ug/L			10/09/17 23:36	1
Bromoform	ND		1.0		ug/L			10/09/17 23:36	1
Bromomethane	ND		2.0		ug/L			10/09/17 23:36	1
Carbon disulfide	ND		10		ug/L			10/09/17 23:36	1
Carbon tetrachloride	ND		1.0		ug/L			10/09/17 23:36	1
Chlorobenzene	ND		1.0		ug/L			10/09/17 23:36	1
Chlorobromomethane	ND		1.0		ug/L			10/09/17 23:36	1
Chlorodibromomethane	ND		0.50		ug/L			10/09/17 23:36	1
Chloroethane	ND		2.0		ug/L			10/09/17 23:36	1
Chloroform	ND		1.0		ug/L			10/09/17 23:36	1
Chloromethane	ND		2.0		ug/L			10/09/17 23:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/09/17 23:36	1
cis-1,3-Dichloropropane	ND		0.40		ug/L			10/09/17 23:36	1
Dichlorobromomethane	ND		0.50		ug/L			10/09/17 23:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/09/17 23:36	1
Ethyl ether	ND		1.0		ug/L			10/09/17 23:36	1
Ethylbenzene	ND		1.0		ug/L			10/09/17 23:36	1
Ethylene Dibromide	ND		1.0		ug/L			10/09/17 23:36	1
Hexachlorobutadiene	ND		0.40		ug/L			10/09/17 23:36	1
Isopropyl ether	ND		10		ug/L			10/09/17 23:36	1
Isopropylbenzene	ND		1.0		ug/L			10/09/17 23:36	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: MB 480-380932/8
Matrix: Water
Analysis Batch: 380932

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/09/17 23:36	1
Methylene Chloride	ND		1.0		ug/L			10/09/17 23:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/09/17 23:36	1
Naphthalene	ND		5.0		ug/L			10/09/17 23:36	1
n-Butylbenzene	ND		1.0		ug/L			10/09/17 23:36	1
N-Propylbenzene	ND		1.0		ug/L			10/09/17 23:36	1
o-Xylene	ND		1.0		ug/L			10/09/17 23:36	1
sec-Butylbenzene	ND		1.0		ug/L			10/09/17 23:36	1
Styrene	ND		1.0		ug/L			10/09/17 23:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/09/17 23:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/09/17 23:36	1
tert-Butylbenzene	ND		1.0		ug/L			10/09/17 23:36	1
Tetrachloroethene	ND		1.0		ug/L			10/09/17 23:36	1
Tetrahydrofuran	ND		10		ug/L			10/09/17 23:36	1
Toluene	ND		1.0		ug/L			10/09/17 23:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/09/17 23:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/09/17 23:36	1
Trichloroethene	ND		1.0		ug/L			10/09/17 23:36	1
Trichlorofluoromethane	ND		1.0		ug/L			10/09/17 23:36	1
Vinyl chloride	ND		1.0		ug/L			10/09/17 23:36	1
Dibromomethane	ND		1.0		ug/L			10/09/17 23:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		10/09/17 23:36	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		10/09/17 23:36	1
4-Bromofluorobenzene (Surr)	85		70 - 130		10/09/17 23:36	1

Lab Sample ID: LCS 480-380932/5
Matrix: Water
Analysis Batch: 380932

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	24.8		ug/L		99	70 - 130
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	29.7		ug/L		119	70 - 130
1,1,2-Trichloroethane	25.0	26.4		ug/L		105	70 - 130
1,1-Dichloroethane	25.0	27.7		ug/L		111	70 - 130
1,1-Dichloroethene	25.0	24.9		ug/L		100	70 - 130
1,1-Dichloropropene	25.0	28.3		ug/L		113	70 - 130
1,2,3-Trichlorobenzene	25.0	22.2		ug/L		89	70 - 130
1,2,3-Trichloropropane	25.0	27.2		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,2,4-Trimethylbenzene	25.0	28.4		ug/L		114	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.3		ug/L		97	70 - 130
1,2-Dichlorobenzene	25.0	27.4		ug/L		110	70 - 130
1,2-Dichloroethane	25.0	24.7		ug/L		99	70 - 130
1,2-Dichloropropane	25.0	25.4		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	25.0	28.3		ug/L		113	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: LCS 480-380932/5

Matrix: Water

Analysis Batch: 380932

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	27.4		ug/L		110	70 - 130
1,3-Dichloropropane	25.0	29.5		ug/L		118	70 - 130
1,4-Dichlorobenzene	25.0	26.8		ug/L		107	70 - 130
1,4-Dioxane	500	501		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	27.0		ug/L		108	70 - 130
2-Butanone (MEK)	125	230	*	ug/L		184	70 - 130
2-Chlorotoluene	25.0	27.0		ug/L		108	70 - 130
2-Hexanone	125	137		ug/L		109	70 - 130
4-Chlorotoluene	25.0	29.8		ug/L		119	70 - 130
4-Isopropyltoluene	25.0	28.8		ug/L		115	70 - 130
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	70 - 130
Acetone	125	159		ug/L		127	70 - 130
Benzene	25.0	28.7		ug/L		115	70 - 130
Bromobenzene	25.0	25.7		ug/L		103	70 - 130
Bromoform	25.0	20.8		ug/L		83	70 - 130
Bromomethane	25.0	25.2		ug/L		101	70 - 130
Carbon disulfide	25.0	27.7		ug/L		111	70 - 130
Carbon tetrachloride	25.0	23.3		ug/L		93	70 - 130
Chlorobenzene	25.0	26.8		ug/L		107	70 - 130
Chlorobromomethane	25.0	23.4		ug/L		94	70 - 130
Chlorodibromomethane	25.0	23.0		ug/L		92	70 - 130
Chloroethane	25.0	26.5		ug/L		106	70 - 130
Chloroform	25.0	26.0		ug/L		104	70 - 130
Chloromethane	25.0	27.0		ug/L		108	70 - 130
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130
cis-1,3-Dichloropropene	25.0	24.0		ug/L		96	70 - 130
Dichlorobromomethane	25.0	24.6		ug/L		98	70 - 130
Dichlorodifluoromethane	25.0	26.9		ug/L		108	70 - 130
Ethyl ether	25.0	22.6		ug/L		91	70 - 130
Ethylbenzene	25.0	27.3		ug/L		109	70 - 130
Ethylene Dibromide	25.0	26.5		ug/L		106	70 - 130
Hexachlorobutadiene	25.0	25.9		ug/L		103	70 - 130
Isopropyl ether	25.0	24.7		ug/L		99	70 - 130
Isopropylbenzene	25.0	29.7		ug/L		119	70 - 130
Methyl tert-butyl ether	25.0	26.1		ug/L		104	70 - 130
Methylene Chloride	25.0	23.1		ug/L		92	70 - 130
m-Xylene & p-Xylene	25.0	26.0		ug/L		104	70 - 130
Naphthalene	25.0	26.9		ug/L		108	70 - 130
n-Butylbenzene	25.0	31.6		ug/L		126	70 - 130
N-Propylbenzene	25.0	30.8		ug/L		123	70 - 130
o-Xylene	25.0	26.4		ug/L		106	70 - 130
sec-Butylbenzene	25.0	29.7		ug/L		119	70 - 130
Styrene	25.0	26.4		ug/L		106	70 - 130
Tert-amyl methyl ether	25.0	25.7		ug/L		103	70 - 130
Tert-butyl ethyl ether	25.0	25.1		ug/L		100	70 - 130
tert-Butylbenzene	25.0	27.8		ug/L		111	70 - 130
Tetrachloroethene	25.0	25.7		ug/L		103	70 - 130
Tetrahydrofuran	50.0	58.5		ug/L		117	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: LCS 480-380932/5

Matrix: Water

Analysis Batch: 380932

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	27.3		ug/L		109	70 - 130
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	70 - 130
trans-1,3-Dichloropropene	25.0	27.1		ug/L		108	70 - 130
Trichloroethene	25.0	25.4		ug/L		102	70 - 130
Trichlorofluoromethane	25.0	26.3		ug/L		105	70 - 130
Vinyl chloride	25.0	26.5		ug/L		106	70 - 130
Dibromomethane	25.0	24.0		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	84		70 - 130

Lab Sample ID: LCSD 480-380932/6

Matrix: Water

Analysis Batch: 380932

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	23.9		ug/L		96	70 - 130	4	20
1,1,1-Trichloroethane	25.0	22.6		ug/L		90	70 - 130	10	20
1,1,1,2,2-Tetrachloroethane	25.0	31.3		ug/L		125	70 - 130	5	20
1,1,2-Trichloroethane	25.0	26.8		ug/L		107	70 - 130	2	20
1,1-Dichloroethane	25.0	24.6		ug/L		99	70 - 130	12	20
1,1-Dichloroethene	25.0	22.8		ug/L		91	70 - 130	9	20
1,1-Dichloropropene	25.0	26.0		ug/L		104	70 - 130	8	20
1,2,3-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 130	3	20
1,2,3-Trichloropropane	25.0	27.9		ug/L		112	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	22.4		ug/L		89	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	28.3		ug/L		113	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	24.3		ug/L		97	70 - 130	0	20
1,2-Dichlorobenzene	25.0	28.3		ug/L		113	70 - 130	3	20
1,2-Dichloroethane	25.0	22.6		ug/L		90	70 - 130	9	20
1,2-Dichloropropane	25.0	22.8		ug/L		91	70 - 130	11	20
1,3,5-Trimethylbenzene	25.0	28.3		ug/L		113	70 - 130	0	20
1,3-Dichlorobenzene	25.0	26.9		ug/L		108	70 - 130	2	20
1,3-Dichloropropane	25.0	30.2		ug/L		121	70 - 130	2	20
1,4-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130	1	20
1,4-Dioxane	500	543		ug/L		109	70 - 130	8	20
2,2-Dichloropropane	25.0	25.3		ug/L		101	70 - 130	6	20
2-Butanone (MEK)	125	215	*	ug/L		172	70 - 130	7	20
2-Chlorotoluene	25.0	27.5		ug/L		110	70 - 130	2	20
2-Hexanone	125	142		ug/L		114	70 - 130	4	20
4-Chlorotoluene	25.0	29.6		ug/L		118	70 - 130	0	20
4-Isopropyltoluene	25.0	27.9		ug/L		111	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		109	70 - 130	5	20
Acetone	125	151		ug/L		121	70 - 130	5	20
Benzene	25.0	26.1		ug/L		104	70 - 130	10	20
Bromobenzene	25.0	24.3		ug/L		97	70 - 130	6	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: LCSD 480-380932/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 380932

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	25.0	22.8		ug/L		91	70 - 130	9	20
Bromomethane	25.0	22.5		ug/L		90	70 - 130	11	20
Carbon disulfide	25.0	24.6		ug/L		99	70 - 130	12	20
Carbon tetrachloride	25.0	20.7		ug/L		83	70 - 130	12	20
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130	4	20
Chlorobromomethane	25.0	22.8		ug/L		91	70 - 130	3	20
Chlorodibromomethane	25.0	23.3		ug/L		93	70 - 130	1	20
Chloroethane	25.0	25.0		ug/L		100	70 - 130	6	20
Chloroform	25.0	23.8		ug/L		95	70 - 130	9	20
Chloromethane	25.0	24.7		ug/L		99	70 - 130	9	20
cis-1,2-Dichloroethene	25.0	22.4		ug/L		90	70 - 130	14	20
cis-1,3-Dichloropropene	25.0	22.0		ug/L		88	70 - 130	9	20
Dichlorobromomethane	25.0	23.5		ug/L		94	70 - 130	4	20
Dichlorodifluoromethane	25.0	27.5		ug/L		110	70 - 130	2	20
Ethyl ether	25.0	19.9		ug/L		80	70 - 130	13	20
Ethylbenzene	25.0	27.6		ug/L		111	70 - 130	1	20
Ethylene Dibromide	25.0	26.9		ug/L		107	70 - 130	1	20
Hexachlorobutadiene	25.0	24.4		ug/L		98	70 - 130	6	20
Isopropyl ether	25.0	22.7		ug/L		91	70 - 130	8	20
Isopropylbenzene	25.0	28.5		ug/L		114	70 - 130	4	20
Methyl tert-butyl ether	25.0	23.4		ug/L		94	70 - 130	11	20
Methylene Chloride	25.0	21.6		ug/L		86	70 - 130	7	20
m-Xylene & p-Xylene	25.0	25.7		ug/L		103	70 - 130	1	20
Naphthalene	25.0	26.9		ug/L		107	70 - 130	0	20
n-Butylbenzene	25.0	30.4		ug/L		121	70 - 130	4	20
N-Propylbenzene	25.0	30.2		ug/L		121	70 - 130	2	20
o-Xylene	25.0	25.9		ug/L		104	70 - 130	2	20
sec-Butylbenzene	25.0	29.1		ug/L		116	70 - 130	2	20
Styrene	25.0	25.7		ug/L		103	70 - 130	3	20
Tert-amyl methyl ether	25.0	24.2		ug/L		97	70 - 130	6	20
Tert-butyl ethyl ether	25.0	23.1		ug/L		92	70 - 130	8	20
tert-Butylbenzene	25.0	26.9		ug/L		108	70 - 130	3	20
Tetrachloroethene	25.0	26.5		ug/L		106	70 - 130	3	20
Tetrahydrofuran	50.0	56.2		ug/L		112	70 - 130	4	20
Toluene	25.0	27.5		ug/L		110	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130	6	20
trans-1,3-Dichloropropene	25.0	27.5		ug/L		110	70 - 130	2	20
Trichloroethene	25.0	22.8		ug/L		91	70 - 130	11	20
Trichlorofluoromethane	25.0	24.2		ug/L		97	70 - 130	8	20
Vinyl chloride	25.0	24.5		ug/L		98	70 - 130	8	20
Dibromomethane	25.0	22.7		ug/L		91	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
4-Bromofluorobenzene (Surr)	88		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: MB 480-381006/7

Matrix: Water

Analysis Batch: 381006

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			10/10/17 11:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/17 11:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/17 11:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/17 11:05	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/17 11:05	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/17 11:05	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/17 11:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/17 11:05	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/17 11:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/17 11:05	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/17 11:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/17 11:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/17 11:05	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/17 11:05	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/17 11:05	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/17 11:05	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/17 11:05	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/17 11:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/17 11:05	1
1,4-Dioxane	ND		50		ug/L			10/10/17 11:05	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/17 11:05	1
2-Butanone (MEK)	ND		10		ug/L			10/10/17 11:05	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/17 11:05	1
2-Hexanone	ND		10		ug/L			10/10/17 11:05	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/17 11:05	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/17 11:05	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/17 11:05	1
Acetone	ND		50		ug/L			10/10/17 11:05	1
Benzene	ND		1.0		ug/L			10/10/17 11:05	1
Bromobenzene	ND		1.0		ug/L			10/10/17 11:05	1
Bromoform	ND		1.0		ug/L			10/10/17 11:05	1
Bromomethane	ND		2.0		ug/L			10/10/17 11:05	1
Carbon disulfide	ND		10		ug/L			10/10/17 11:05	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/17 11:05	1
Chlorobenzene	ND		1.0		ug/L			10/10/17 11:05	1
Chlorobromomethane	ND		1.0		ug/L			10/10/17 11:05	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/17 11:05	1
Chloroethane	ND		2.0		ug/L			10/10/17 11:05	1
Chloroform	ND		1.0		ug/L			10/10/17 11:05	1
Chloromethane	ND		2.0		ug/L			10/10/17 11:05	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/17 11:05	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/17 11:05	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/17 11:05	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/17 11:05	1
Ethyl ether	ND		1.0		ug/L			10/10/17 11:05	1
Ethylbenzene	ND		1.0		ug/L			10/10/17 11:05	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/17 11:05	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/17 11:05	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: MB 480-381006/7

Matrix: Water

Analysis Batch: 381006

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			10/10/17 11:05	1
Isopropylbenzene	ND		1.0		ug/L			10/10/17 11:05	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/17 11:05	1
Methylene Chloride	ND		1.0		ug/L			10/10/17 11:05	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/17 11:05	1
Naphthalene	ND		5.0		ug/L			10/10/17 11:05	1
n-Butylbenzene	ND		1.0		ug/L			10/10/17 11:05	1
N-Propylbenzene	ND		1.0		ug/L			10/10/17 11:05	1
o-Xylene	ND		1.0		ug/L			10/10/17 11:05	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/17 11:05	1
Styrene	ND		1.0		ug/L			10/10/17 11:05	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/17 11:05	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/17 11:05	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/17 11:05	1
Tetrachloroethene	ND		1.0		ug/L			10/10/17 11:05	1
Tetrahydrofuran	ND		10		ug/L			10/10/17 11:05	1
Toluene	ND		1.0		ug/L			10/10/17 11:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/17 11:05	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/17 11:05	1
Trichloroethene	ND		1.0		ug/L			10/10/17 11:05	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/17 11:05	1
Vinyl chloride	ND		1.0		ug/L			10/10/17 11:05	1
Dibromomethane	ND		1.0		ug/L			10/10/17 11:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		10/10/17 11:05	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		10/10/17 11:05	1
4-Bromofluorobenzene (Surr)	83		70 - 130		10/10/17 11:05	1

Lab Sample ID: LCS 480-381006/4

Matrix: Water

Analysis Batch: 381006

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	24.1		ug/L		96	70 - 130
1,1,1-Trichloroethane	25.0	23.2		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	25.0	29.6		ug/L		118	70 - 130
1,1,2-Trichloroethane	25.0	26.9		ug/L		107	70 - 130
1,1-Dichloroethane	25.0	25.5		ug/L		102	70 - 130
1,1-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
1,1-Dichloropropene	25.0	27.6		ug/L		111	70 - 130
1,2,3-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130
1,2,3-Trichloropropane	25.0	27.5		ug/L		110	70 - 130
1,2,4-Trichlorobenzene	25.0	21.0		ug/L		84	70 - 130
1,2,4-Trimethylbenzene	25.0	27.4		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.4		ug/L		98	70 - 130
1,2-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,2-Dichloroethane	25.0	24.0		ug/L		96	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: LCS 480-381006/4

Matrix: Water

Analysis Batch: 381006

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	24.3		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	25.0	27.0		ug/L		108	70 - 130
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,3-Dichloropropane	25.0	29.5		ug/L		118	70 - 130
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,4-Dioxane	500	498		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	25.7		ug/L		103	70 - 130
2-Butanone (MEK)	125	218	*	ug/L		174	70 - 130
2-Chlorotoluene	25.0	27.2		ug/L		109	70 - 130
2-Hexanone	125	134		ug/L		107	70 - 130
4-Chlorotoluene	25.0	27.9		ug/L		112	70 - 130
4-Isopropyltoluene	25.0	27.3		ug/L		109	70 - 130
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		105	70 - 130
Acetone	125	154		ug/L		123	70 - 130
Benzene	25.0	26.6		ug/L		106	70 - 130
Bromobenzene	25.0	23.4		ug/L		94	70 - 130
Bromoform	25.0	22.0		ug/L		88	70 - 130
Bromomethane	25.0	20.1		ug/L		80	70 - 130
Carbon disulfide	25.0	27.4		ug/L		109	70 - 130
Carbon tetrachloride	25.0	21.8		ug/L		87	70 - 130
Chlorobenzene	25.0	26.5		ug/L		106	70 - 130
Chlorobromomethane	25.0	22.8		ug/L		91	70 - 130
Chlorodibromomethane	25.0	22.4		ug/L		90	70 - 130
Chloroethane	25.0	23.8		ug/L		95	70 - 130
Chloroform	25.0	23.8		ug/L		95	70 - 130
Chloromethane	25.0	24.1		ug/L		96	70 - 130
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	70 - 130
cis-1,3-Dichloropropene	25.0	22.3		ug/L		89	70 - 130
Dichlorobromomethane	25.0	23.3		ug/L		93	70 - 130
Dichlorodifluoromethane	25.0	29.0		ug/L		116	70 - 130
Ethyl ether	25.0	21.9		ug/L		88	70 - 130
Ethylbenzene	25.0	27.1		ug/L		108	70 - 130
Ethylene Dibromide	25.0	27.2		ug/L		109	70 - 130
Hexachlorobutadiene	25.0	23.1		ug/L		92	70 - 130
Isopropyl ether	25.0	23.5		ug/L		94	70 - 130
Isopropylbenzene	25.0	28.4		ug/L		114	70 - 130
Methyl tert-butyl ether	25.0	24.7		ug/L		99	70 - 130
Methylene Chloride	25.0	21.6		ug/L		86	70 - 130
m-Xylene & p-Xylene	25.0	25.3		ug/L		101	70 - 130
Naphthalene	25.0	25.6		ug/L		102	70 - 130
n-Butylbenzene	25.0	30.0		ug/L		120	70 - 130
N-Propylbenzene	25.0	28.7		ug/L		115	70 - 130
o-Xylene	25.0	25.6		ug/L		102	70 - 130
sec-Butylbenzene	25.0	28.3		ug/L		113	70 - 130
Styrene	25.0	25.5		ug/L		102	70 - 130
Tert-amyl methyl ether	25.0	24.6		ug/L		98	70 - 130
Tert-butyl ethyl ether	25.0	23.5		ug/L		94	70 - 130
tert-Butylbenzene	25.0	25.3		ug/L		101	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: LCS 480-381006/4

Matrix: Water

Analysis Batch: 381006

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	27.8		ug/L		111	70 - 130
Tetrahydrofuran	50.0	55.6		ug/L		111	70 - 130
Toluene	25.0	27.7		ug/L		111	70 - 130
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
trans-1,3-Dichloropropene	25.0	27.7		ug/L		111	70 - 130
Trichloroethene	25.0	24.3		ug/L		97	70 - 130
Trichlorofluoromethane	25.0	24.1		ug/L		96	70 - 130
Vinyl chloride	25.0	23.3		ug/L		93	70 - 130
Dibromomethane	25.0	23.0		ug/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	84		70 - 130

Lab Sample ID: LCSD 480-381006/5

Matrix: Water

Analysis Batch: 381006

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	22.6		ug/L		91	70 - 130	6	20
1,1,1-Trichloroethane	25.0	24.4		ug/L		97	70 - 130	5	20
1,1,1,2,2-Tetrachloroethane	25.0	30.3		ug/L		121	70 - 130	2	20
1,1,1,2-Trichloroethane	25.0	28.4		ug/L		114	70 - 130	6	20
1,1-Dichloroethane	25.0	26.5		ug/L		106	70 - 130	4	20
1,1-Dichloroethene	25.0	25.5		ug/L		102	70 - 130	6	20
1,1-Dichloropropene	25.0	27.1		ug/L		109	70 - 130	2	20
1,2,3-Trichlorobenzene	25.0	22.7		ug/L		91	70 - 130	6	20
1,2,3-Trichloropropane	25.0	26.5		ug/L		106	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	22.4		ug/L		89	70 - 130	6	20
1,2,4-Trimethylbenzene	25.0	28.9		ug/L		116	70 - 130	6	20
1,2-Dibromo-3-Chloropropane	25.0	25.3		ug/L		101	70 - 130	4	20
1,2-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130	1	20
1,2-Dichloroethane	25.0	23.5		ug/L		94	70 - 130	2	20
1,2-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	28.3		ug/L		113	70 - 130	5	20
1,3-Dichlorobenzene	25.0	26.8		ug/L		107	70 - 130	5	20
1,3-Dichloropropane	25.0	28.8		ug/L		115	70 - 130	2	20
1,4-Dichlorobenzene	25.0	26.6		ug/L		106	70 - 130	4	20
1,4-Dioxane	500	508		ug/L		102	70 - 130	2	20
2,2-Dichloropropane	25.0	25.9		ug/L		104	70 - 130	1	20
2-Butanone (MEK)	125	218	*	ug/L		174	70 - 130	0	20
2-Chlorotoluene	25.0	27.6		ug/L		111	70 - 130	1	20
2-Hexanone	125	135		ug/L		108	70 - 130	1	20
4-Chlorotoluene	25.0	29.6		ug/L		118	70 - 130	6	20
4-Isopropyltoluene	25.0	29.2		ug/L		117	70 - 130	7	20
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	70 - 130	1	20
Acetone	125	145		ug/L		116	70 - 130	6	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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

Lab Sample ID: LCSD 480-381006/5

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 381006

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Benzene	25.0	27.4		ug/L		109	70 - 130	3	20
Bromobenzene	25.0	24.3		ug/L		97	70 - 130	3	20
Bromoform	25.0	20.5		ug/L		82	70 - 130	7	20
Bromomethane	25.0	21.7		ug/L		87	70 - 130	8	20
Carbon disulfide	25.0	28.4		ug/L		114	70 - 130	4	20
Carbon tetrachloride	25.0	22.9		ug/L		92	70 - 130	5	20
Chlorobenzene	25.0	26.7		ug/L		107	70 - 130	1	20
Chlorobromomethane	25.0	21.6		ug/L		86	70 - 130	5	20
Chlorodibromomethane	25.0	22.5		ug/L		90	70 - 130	0	20
Chloroethane	25.0	24.0		ug/L		96	70 - 130	1	20
Chloroform	25.0	24.5		ug/L		98	70 - 130	3	20
Chloromethane	25.0	25.4		ug/L		102	70 - 130	5	20
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	70 - 130	8	20
cis-1,3-Dichloropropene	25.0	23.6		ug/L		94	70 - 130	6	20
Dichlorobromomethane	25.0	23.8		ug/L		95	70 - 130	2	20
Dichlorodifluoromethane	25.0	31.2		ug/L		125	70 - 130	7	20
Ethyl ether	25.0	22.1		ug/L		88	70 - 130	1	20
Ethylbenzene	25.0	28.1		ug/L		112	70 - 130	4	20
Ethylene Dibromide	25.0	25.8		ug/L		103	70 - 130	5	20
Hexachlorobutadiene	25.0	26.1		ug/L		104	70 - 130	12	20
Isopropyl ether	25.0	23.5		ug/L		94	70 - 130	0	20
Isopropylbenzene	25.0	30.1		ug/L		121	70 - 130	6	20
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130	1	20
Methylene Chloride	25.0	22.2		ug/L		89	70 - 130	3	20
m-Xylene & p-Xylene	25.0	25.7		ug/L		103	70 - 130	2	20
Naphthalene	25.0	27.2		ug/L		109	70 - 130	6	20
n-Butylbenzene	25.0	32.1		ug/L		128	70 - 130	7	20
N-Propylbenzene	25.0	31.1		ug/L		124	70 - 130	8	20
o-Xylene	25.0	25.6		ug/L		102	70 - 130	0	20
sec-Butylbenzene	25.0	30.2		ug/L		121	70 - 130	7	20
Styrene	25.0	26.2		ug/L		105	70 - 130	3	20
Tert-amyl methyl ether	25.0	25.2		ug/L		101	70 - 130	3	20
Tert-butyl ethyl ether	25.0	23.7		ug/L		95	70 - 130	1	20
tert-Butylbenzene	25.0	27.5		ug/L		110	70 - 130	8	20
Tetrachloroethene	25.0	28.0		ug/L		112	70 - 130	1	20
Tetrahydrofuran	50.0	57.0		ug/L		114	70 - 130	3	20
Toluene	25.0	27.2		ug/L		109	70 - 130	2	20
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 130	3	20
Trichloroethene	25.0	24.3		ug/L		97	70 - 130	0	20
Trichlorofluoromethane	25.0	25.8		ug/L		103	70 - 130	7	20
Vinyl chloride	25.0	25.3		ug/L		101	70 - 130	8	20
Dibromomethane	25.0	23.0		ug/L		92	70 - 130	0	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	83		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-121935/1-A
Matrix: Water
Analysis Batch: 121975

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 121935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		10/09/17 19:17	10/10/17 19:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	74		46 - 130				10/09/17 19:17	10/10/17 19:11	1

Lab Sample ID: LCS 200-121935/2-A
Matrix: Water
Analysis Batch: 121975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 121935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	0.200	0.233		ug/L		117	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	90		46 - 130						

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-380098/1-A
Matrix: Water
Analysis Batch: 380329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 380098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		10/04/17 09:15	10/04/17 23:24	1

Lab Sample ID: LCS 480-380098/2-A
Matrix: Water
Analysis Batch: 380329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 380098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Iron	10.0	9.85		mg/L		98	80 - 120		

Lab Sample ID: LCSD 480-380098/3-A
Matrix: Water
Analysis Batch: 380329

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 380098

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Iron	10.0	9.83		mg/L		98	80 - 120	0	20

Lab Sample ID: 480-125214-9 MS
Matrix: Water
Analysis Batch: 380329

Client Sample ID: MW-562-20171003
Prep Type: Total/NA
Prep Batch: 380098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Iron	260	^	10.0	279	4	mg/L		151	75 - 125

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Method: 6010 - Metals (ICP) (Continued)

Lab Sample ID: 480-125214-9 MSD

Matrix: Water

Analysis Batch: 380329

Client Sample ID: MW-562-20171003

Prep Type: Total/NA

Prep Batch: 380098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Iron	260	^	10.0	268	4	mg/L		41	75 - 125	4	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-380430/28

Matrix: Water

Analysis Batch: 380430

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/06/17 13:07	1
Sulfate	ND		2.0		mg/L			10/06/17 13:07	1

Lab Sample ID: MB 480-380430/4

Matrix: Water

Analysis Batch: 380430

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/06/17 09:52	1
Sulfate	ND		2.0		mg/L			10/06/17 09:52	1

Lab Sample ID: LCS 480-380430/27

Matrix: Water

Analysis Batch: 380430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.4		mg/L		103	90 - 110
Sulfate	50.0	52.0		mg/L		104	90 - 110

Lab Sample ID: LCS 480-380430/3

Matrix: Water

Analysis Batch: 380430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.6		mg/L		103	90 - 110
Sulfate	50.0	52.9		mg/L		106	90 - 110

Lab Sample ID: 480-125214-7 MS

Matrix: Water

Analysis Batch: 380430

Client Sample ID: MW-560-20171003

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30	F1	200	131	F1	mg/L		51	81 - 120
Sulfate	4.8	F1	200	109	F1	mg/L		52	80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 480-125214-9 MS
Matrix: Water
Analysis Batch: 380430

Client Sample ID: MW-562-20171003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	14		500	547	E	mg/L		107	81 - 120
Sulfate	ND		500	564	E	mg/L		113	80 - 120

Lab Sample ID: MB 480-380519/4
Matrix: Water
Analysis Batch: 380519

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/06/17 11:46	1
Sulfate	ND		2.0		mg/L			10/06/17 11:46	1

Lab Sample ID: LCS 480-380519/3
Matrix: Water
Analysis Batch: 380519

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.5		mg/L		99	90 - 110
Sulfate	50.0	48.5		mg/L		97	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-380254/2-A
Matrix: Water
Analysis Batch: 380385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 380254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		10/04/17 18:10	10/05/17 11:21	1

Lab Sample ID: LCS 480-380254/1-A
Matrix: Water
Analysis Batch: 380385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 380254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.08		mg/L		108	90 - 110

Lab Sample ID: MB 480-380879/2-A
Matrix: Water
Analysis Batch: 380900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 380879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		10/09/17 14:20	10/09/17 14:46	1

Lab Sample ID: LCS 480-380879/1-A
Matrix: Water
Analysis Batch: 380900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 380879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.09		mg/L		109	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Method: 9040C - pH

Lab Sample ID: 480-125214-12 DU

Matrix: Water

Analysis Batch: 380259

Client Sample ID: REW-7-20171003

Prep Type: Total/NA

Analyte	Sample		DU		Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
pH	7.3	HF	7.3		SU		0.5	5	
Temperature	22.0	HF	22.1		Degrees C		0.4	10	

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-380348/28

Matrix: Water

Analysis Batch: 380348

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	ND		1.0		mg/L			10/05/17 04:40	1
TOC Result 2	ND		1.0		mg/L			10/05/17 04:40	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/05/17 04:40	1

Lab Sample ID: MB 480-380348/4

Matrix: Water

Analysis Batch: 380348

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	ND		1.0		mg/L			10/04/17 18:03	1
TOC Result 2	ND		1.0		mg/L			10/04/17 18:03	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/04/17 18:03	1

Lab Sample ID: LCS 480-380348/29

Matrix: Water

Analysis Batch: 380348

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 2	60.0	57.9		mg/L		97	90 - 110
Total Organic Carbon - Duplicates	60.0	57.2		mg/L		95	90 - 110

Lab Sample ID: LCS 480-380348/5

Matrix: Water

Analysis Batch: 380348

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 2	60.0	57.6		mg/L		96	90 - 110
Total Organic Carbon - Duplicates	60.0	57.4		mg/L		96	90 - 110

Lab Sample ID: MB 480-380726/4

Matrix: Water

Analysis Batch: 380726

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	ND		1.0		mg/L			10/05/17 19:31	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 480-380726/4
Matrix: Water
Analysis Batch: 380726

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 2	ND		1.0		mg/L			10/05/17 19:31	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/05/17 19:31	1

Lab Sample ID: LCS 480-380726/5
Matrix: Water
Analysis Batch: 380726

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	57.7		mg/L		96	90 - 110
TOC Result 2	60.0	58.3		mg/L		97	90 - 110
Total Organic Carbon - Duplicates	60.0	58.0		mg/L		97	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-380338/30
Matrix: Water
Analysis Batch: 380338

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/04/17 23:38	1

Lab Sample ID: MB 480-380338/7
Matrix: Water
Analysis Batch: 380338

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/04/17 21:02	1

Lab Sample ID: LCS 480-380338/31
Matrix: Water
Analysis Batch: 380338

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	95.5		mg/L		96	90 - 110

Lab Sample ID: LCS 480-380338/8
Matrix: Water
Analysis Batch: 380338

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	94.6		mg/L		95	90 - 110

Lab Sample ID: 480-125214-14 MS
Matrix: Water
Analysis Batch: 380338

Client Sample ID: REW-12-20171003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	430		100	471	4	mg/L		45	60 - 140

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 480-125214-13 DU

Matrix: Water

Analysis Batch: 380338

Client Sample ID: REW-11-20171003

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Alkalinity, Total	730		724		mg/L		0.9	20

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-380266/3

Matrix: Water

Analysis Batch: 380266

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			10/04/17 19:50	1

Lab Sample ID: LCS 480-380266/4

Matrix: Water

Analysis Batch: 380266

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.206		mg/L		103	90 - 110

Lab Sample ID: 480-125214-12 MS

Matrix: Water

Analysis Batch: 380266

Client Sample ID: REW-7-20171003

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.082		0.500	0.562		mg/L		96	49 - 138

Lab Sample ID: 480-125214-12 MSD

Matrix: Water

Analysis Batch: 380266

Client Sample ID: REW-7-20171003

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
ortho-Phosphate	0.082		0.500	0.551		mg/L		94	49 - 138	2	20

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

GC/MS VOA

Analysis Batch: 380799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-1	DEP-21-20171002	Total/NA	Water	8260C	
480-125214-2	MW-264M-20171002	Total/NA	Water	8260C	
480-125214-3	MW-266MA-20171002	Total/NA	Water	8260C	
480-125214-4	MW-266MB-20171002	Total/NA	Water	8260C	
480-125214-5	MW-267M-20171002	Total/NA	Water	8260C	
MB 480-380799/8	Method Blank	Total/NA	Water	8260C	
LCS 480-380799/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-380799/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 380932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-6	MW-269MA-20171002	Total/NA	Water	8260C	
480-125214-7	MW-560-20171003	Total/NA	Water	8260C	
480-125214-8	MW-561-20171003	Total/NA	Water	8260C	
480-125214-9	MW-562-20171003	Total/NA	Water	8260C	
480-125214-10	MW-563-20171003	Total/NA	Water	8260C	
480-125214-11	REW-6-20171003	Total/NA	Water	8260C	
480-125214-12	REW-7-20171003	Total/NA	Water	8260C	
480-125214-13	REW-11-20171003	Total/NA	Water	8260C	
480-125214-14	REW-12-20171003	Total/NA	Water	8260C	
480-125214-16	TRIP BLANKS	Total/NA	Water	8260C	
MB 480-380932/8	Method Blank	Total/NA	Water	8260C	
LCS 480-380932/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-380932/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 381006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-15	DUP1-20171003	Total/NA	Water	8260C	
MB 480-381006/7	Method Blank	Total/NA	Water	8260C	
LCS 480-381006/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-381006/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 121935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-3	MW-266MA-20171002	Total/NA	Water	3535A	
480-125214-5	MW-267M-20171002	Total/NA	Water	3535A	
480-125214-6	MW-269MA-20171002	Total/NA	Water	3535A	
MB 200-121935/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-121935/2-A	Lab Control Sample	Total/NA	Water	3535A	

Analysis Batch: 121975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-3	MW-266MA-20171002	Total/NA	Water	522	121935
480-125214-5	MW-267M-20171002	Total/NA	Water	522	121935
480-125214-6	MW-269MA-20171002	Total/NA	Water	522	121935
MB 200-121935/1-A	Method Blank	Total/NA	Water	522	121935
LCS 200-121935/2-A	Lab Control Sample	Total/NA	Water	522	121935

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Metals

Prep Batch: 380098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-7	MW-560-20171003	Total/NA	Water	3005A	
480-125214-8	MW-561-20171003	Total/NA	Water	3005A	
480-125214-9	MW-562-20171003	Total/NA	Water	3005A	
480-125214-10	MW-563-20171003	Total/NA	Water	3005A	
480-125214-11	REW-6-20171003	Total/NA	Water	3005A	
480-125214-12	REW-7-20171003	Total/NA	Water	3005A	
480-125214-13	REW-11-20171003	Total/NA	Water	3005A	
480-125214-14	REW-12-20171003	Total/NA	Water	3005A	
MB 480-380098/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-380098/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-380098/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	
480-125214-9 MS	MW-562-20171003	Total/NA	Water	3005A	
480-125214-9 MSD	MW-562-20171003	Total/NA	Water	3005A	

Analysis Batch: 380329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-7	MW-560-20171003	Total/NA	Water	6010	380098
480-125214-8	MW-561-20171003	Total/NA	Water	6010	380098
480-125214-9	MW-562-20171003	Total/NA	Water	6010	380098
480-125214-10	MW-563-20171003	Total/NA	Water	6010	380098
480-125214-11	REW-6-20171003	Total/NA	Water	6010	380098
480-125214-12	REW-7-20171003	Total/NA	Water	6010	380098
480-125214-13	REW-11-20171003	Total/NA	Water	6010	380098
480-125214-14	REW-12-20171003	Total/NA	Water	6010	380098
MB 480-380098/1-A	Method Blank	Total/NA	Water	6010	380098
LCS 480-380098/2-A	Lab Control Sample	Total/NA	Water	6010	380098
LCSD 480-380098/3-A	Lab Control Sample Dup	Total/NA	Water	6010	380098
480-125214-9 MS	MW-562-20171003	Total/NA	Water	6010	380098
480-125214-9 MSD	MW-562-20171003	Total/NA	Water	6010	380098

General Chemistry

Analysis Batch: 380251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-7	MW-560-20171003	Total/NA	Water	353.2	
480-125214-10	MW-563-20171003	Total/NA	Water	353.2	
480-125214-12	REW-7-20171003	Total/NA	Water	353.2	

Prep Batch: 380254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-7	MW-560-20171003	Total/NA	Water	Distill/Ammonia	
480-125214-8	MW-561-20171003	Total/NA	Water	Distill/Ammonia	
480-125214-9	MW-562-20171003	Total/NA	Water	Distill/Ammonia	
480-125214-10	MW-563-20171003	Total/NA	Water	Distill/Ammonia	
480-125214-11	REW-6-20171003	Total/NA	Water	Distill/Ammonia	
480-125214-12	REW-7-20171003	Total/NA	Water	Distill/Ammonia	
480-125214-14	REW-12-20171003	Total/NA	Water	Distill/Ammonia	
MB 480-380254/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-380254/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

General Chemistry (Continued)

Analysis Batch: 380259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-7	MW-560-20171003	Total/NA	Water	9040C	
480-125214-8	MW-561-20171003	Total/NA	Water	9040C	
480-125214-9	MW-562-20171003	Total/NA	Water	9040C	
480-125214-10	MW-563-20171003	Total/NA	Water	9040C	
480-125214-11	REW-6-20171003	Total/NA	Water	9040C	
480-125214-12	REW-7-20171003	Total/NA	Water	9040C	
480-125214-13	REW-11-20171003	Total/NA	Water	9040C	
480-125214-14	REW-12-20171003	Total/NA	Water	9040C	
LCS 480-380259/1	Lab Control Sample	Total/NA	Water	9040C	
LCS 480-380259/23	Lab Control Sample	Total/NA	Water	9040C	
480-125214-12 DU	REW-7-20171003	Total/NA	Water	9040C	

Analysis Batch: 380265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-8	MW-561-20171003	Total/NA	Water	353.2	
480-125214-9	MW-562-20171003	Total/NA	Water	353.2	
480-125214-11	REW-6-20171003	Total/NA	Water	353.2	
480-125214-13	REW-11-20171003	Total/NA	Water	353.2	
480-125214-14	REW-12-20171003	Total/NA	Water	353.2	

Analysis Batch: 380266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-7	MW-560-20171003	Total/NA	Water	SM 4500 P E	
480-125214-7	MW-560-20171003	Total/NA	Water	SM 4500 P E	
480-125214-8	MW-561-20171003	Total/NA	Water	SM 4500 P E	
480-125214-8	MW-561-20171003	Total/NA	Water	SM 4500 P E	
480-125214-9	MW-562-20171003	Total/NA	Water	SM 4500 P E	
480-125214-10	MW-563-20171003	Total/NA	Water	SM 4500 P E	
480-125214-11	REW-6-20171003	Total/NA	Water	SM 4500 P E	
480-125214-12	REW-7-20171003	Total/NA	Water	SM 4500 P E	
480-125214-13	REW-11-20171003	Total/NA	Water	SM 4500 P E	
480-125214-14	REW-12-20171003	Total/NA	Water	SM 4500 P E	
MB 480-380266/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-380266/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-125214-12 MS	REW-7-20171003	Total/NA	Water	SM 4500 P E	
480-125214-12 MSD	REW-7-20171003	Total/NA	Water	SM 4500 P E	

Analysis Batch: 380338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-7	MW-560-20171003	Total/NA	Water	SM 2320B	
480-125214-8	MW-561-20171003	Total/NA	Water	SM 2320B	
480-125214-9	MW-562-20171003	Total/NA	Water	SM 2320B	
480-125214-10	MW-563-20171003	Total/NA	Water	SM 2320B	
480-125214-11	REW-6-20171003	Total/NA	Water	SM 2320B	
480-125214-12	REW-7-20171003	Total/NA	Water	SM 2320B	
480-125214-13	REW-11-20171003	Total/NA	Water	SM 2320B	
480-125214-14	REW-12-20171003	Total/NA	Water	SM 2320B	
MB 480-380338/30	Method Blank	Total/NA	Water	SM 2320B	
MB 480-380338/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-380338/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-380338/8	Lab Control Sample	Total/NA	Water	SM 2320B	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

General Chemistry (Continued)

Analysis Batch: 380338 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-14 MS	REW-12-20171003	Total/NA	Water	SM 2320B	
480-125214-13 DU	REW-11-20171003	Total/NA	Water	SM 2320B	

Analysis Batch: 380348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-7	MW-560-20171003	Total/NA	Water	9060A	
480-125214-8	MW-561-20171003	Total/NA	Water	9060A	
480-125214-10	MW-563-20171003	Total/NA	Water	9060A	
480-125214-11	REW-6-20171003	Total/NA	Water	9060A	
480-125214-12	REW-7-20171003	Total/NA	Water	9060A	
MB 480-380348/28	Method Blank	Total/NA	Water	9060A	
MB 480-380348/4	Method Blank	Total/NA	Water	9060A	
LCS 480-380348/29	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-380348/5	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 380385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-7	MW-560-20171003	Total/NA	Water	350.1	380254
480-125214-8	MW-561-20171003	Total/NA	Water	350.1	380254
480-125214-9	MW-562-20171003	Total/NA	Water	350.1	380254
480-125214-10	MW-563-20171003	Total/NA	Water	350.1	380254
480-125214-11	REW-6-20171003	Total/NA	Water	350.1	380254
480-125214-12	REW-7-20171003	Total/NA	Water	350.1	380254
480-125214-14	REW-12-20171003	Total/NA	Water	350.1	380254
MB 480-380254/2-A	Method Blank	Total/NA	Water	350.1	380254
LCS 480-380254/1-A	Lab Control Sample	Total/NA	Water	350.1	380254

Analysis Batch: 380430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-7	MW-560-20171003	Total/NA	Water	300.0	
480-125214-8	MW-561-20171003	Total/NA	Water	300.0	
480-125214-9	MW-562-20171003	Total/NA	Water	300.0	
480-125214-10	MW-563-20171003	Total/NA	Water	300.0	
MB 480-380430/28	Method Blank	Total/NA	Water	300.0	
MB 480-380430/4	Method Blank	Total/NA	Water	300.0	
LCS 480-380430/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-380430/3	Lab Control Sample	Total/NA	Water	300.0	
480-125214-7 MS	MW-560-20171003	Total/NA	Water	300.0	
480-125214-9 MS	MW-562-20171003	Total/NA	Water	300.0	

Analysis Batch: 380519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-11	REW-6-20171003	Total/NA	Water	300.0	
480-125214-12	REW-7-20171003	Total/NA	Water	300.0	
480-125214-13	REW-11-20171003	Total/NA	Water	300.0	
480-125214-14	REW-12-20171003	Total/NA	Water	300.0	
MB 480-380519/4	Method Blank	Total/NA	Water	300.0	
LCS 480-380519/3	Lab Control Sample	Total/NA	Water	300.0	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

General Chemistry (Continued)

Analysis Batch: 380726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-9	MW-562-20171003	Total/NA	Water	9060A	
480-125214-13	REW-11-20171003	Total/NA	Water	9060A	
480-125214-14	REW-12-20171003	Total/NA	Water	9060A	
MB 480-380726/4	Method Blank	Total/NA	Water	9060A	
LCS 480-380726/5	Lab Control Sample	Total/NA	Water	9060A	

Prep Batch: 380879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-13	REW-11-20171003	Total/NA	Water	Distill/Ammonia	
MB 480-380879/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-380879/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 380900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-380879/2-A	Method Blank	Total/NA	Water	350.1	380879
LCS 480-380879/1-A	Lab Control Sample	Total/NA	Water	350.1	380879

Analysis Batch: 380901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-125214-13	REW-11-20171003	Total/NA	Water	350.1	380879

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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Client Sample ID: MW-264M-20171002

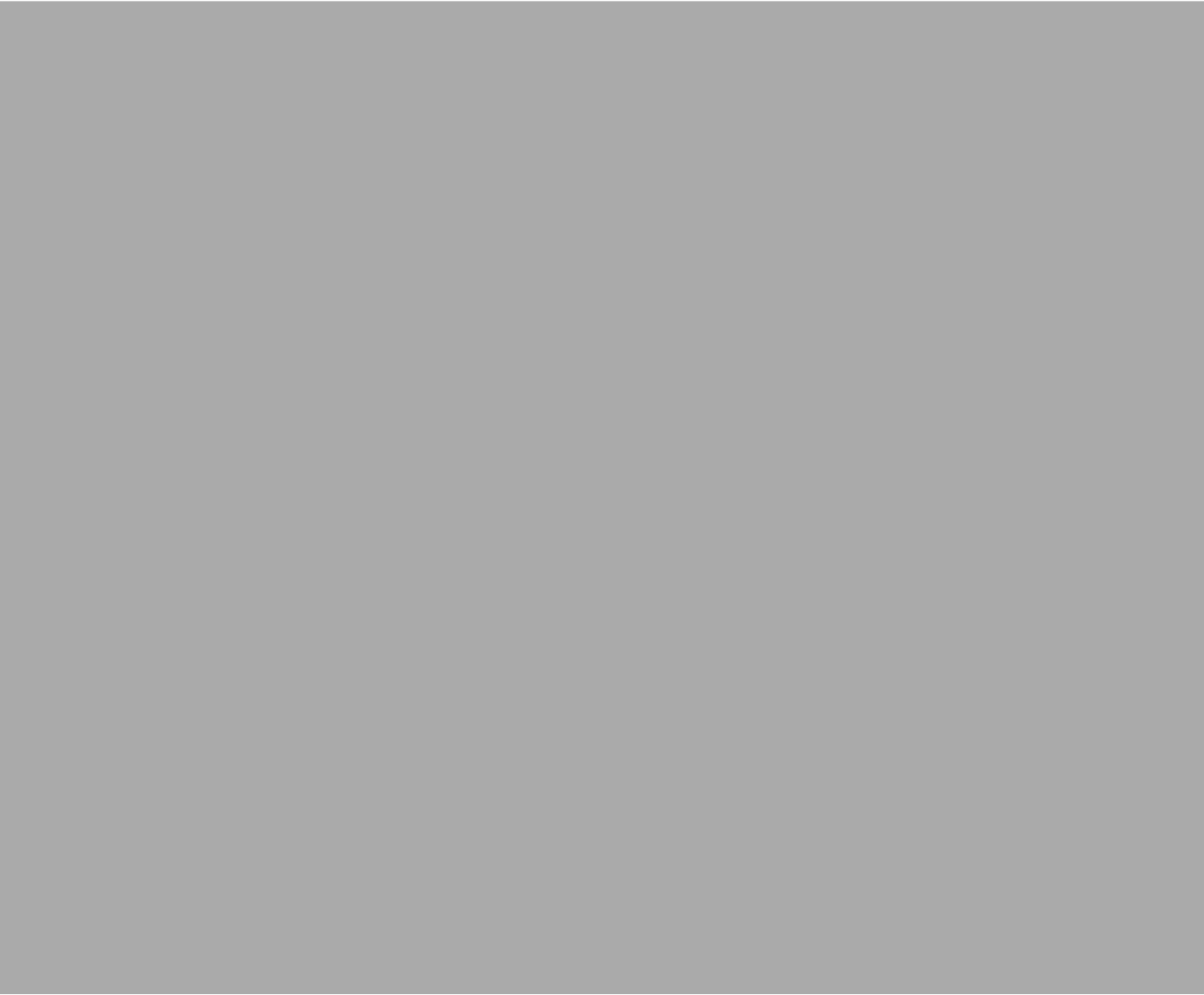
Lab Sample ID: 480-125214-2

Date Collected: 10/02/17 11:45

Matrix: Water

Date Received: 10/04/17 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	380799	10/09/17 16:21	KMN	TAL BUF



Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



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Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



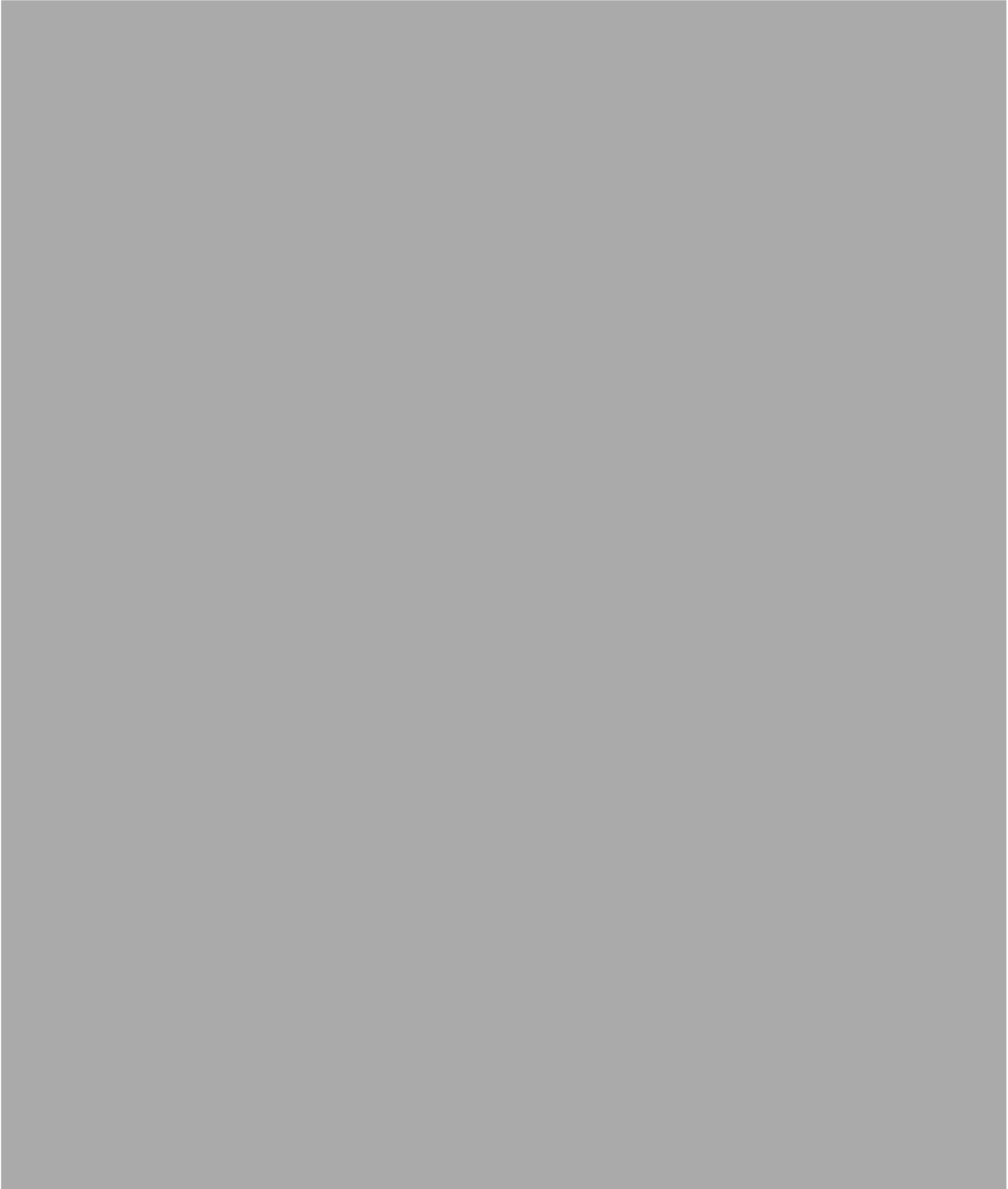
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TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1



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Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

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Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-125214-16

Date Collected: 10/03/17 00:00

Matrix: Water

Date Received: 10/04/17 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	380932	10/10/17 04:04	RRS	TAL BUF

Laboratory References:

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

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-18
California	State Program	9	2931	09-30-17 *
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-18
Georgia	State Program	4	10026 (NY)	03-31-18
Georgia	State Program	4	956	03-31-18
Illinois	NELAP	5	200003	09-30-18
Iowa	State Program	7	374	03-01-19
Kansas	NELAP	7	E-10187	01-31-18
Kentucky (DW)	State Program	4	90029	12-31-17
Kentucky (UST)	State Program	4	30	03-31-18
Kentucky (WW)	State Program	4	90029	12-31-17
Louisiana	NELAP	6	02031	06-30-18
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-18
Massachusetts	State Program	1	M-NY044	06-30-18
Michigan	State Program	5	9937	04-01-09 *
Minnesota	NELAP	5	036-999-337	12-31-17
New Hampshire	NELAP	1	2973	09-11-18
New Jersey	NELAP	2	NY455	06-30-18
New York	NELAP	2	10026	03-31-18
North Dakota	State Program	8	R-176	03-31-18
Oklahoma	State Program	6	9421	08-31-18
Oregon	NELAP	10	NY200003	06-09-18
Pennsylvania	NELAP	3	68-00281	07-31-18
Rhode Island	State Program	1	LAO00328	12-30-17
Tennessee	State Program	4	TN02970	03-31-18
Texas	NELAP	6	T104704412-15-6	07-31-18
USDA	Federal		P330-11-00386	11-26-17 *
Virginia	NELAP	3	460185	09-14-18
Washington	State Program	10	C784	02-10-18
Wisconsin	State Program	5	998310390	08-31-18

Laboratory: TestAmerica Burlington

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-17 *
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-18
L-A-B	DoD ELAP		L2336	02-25-20
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-17
New Hampshire	NELAP	1	2006	12-18-17
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-18
Pennsylvania	NELAP	3	68-00489	04-30-18
Rhode Island	State Program	1	LAO00298	12-30-17
US Fish & Wildlife	Federal		LE-058448-0	10-31-17
USDA	Federal		P330-11-00093	12-05-19

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

TestAmerica Buffalo

Accreditation/Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Laboratory: TestAmerica Burlington (Continued)

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Vermont	State Program	1	VT-4000	12-31-17
Virginia	NELAP	3	460209	12-14-17

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Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

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

Laboratory References:

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

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-125214-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-125214-1	DEP-21-20171002	Water	10/02/17 08:45	10/04/17 02:15
480-125214-2	MW-264M-20171002	Water	10/02/17 11:45	10/04/17 02:15
480-125214-3	MW-266MA-20171002	Water	10/02/17 10:05	10/04/17 02:15
480-125214-4	MW-266MB-20171002	Water	10/02/17 10:40	10/04/17 02:15
480-125214-5	MW-267M-20171002	Water	10/02/17 09:30	10/04/17 02:15
480-125214-6	MW-269MA-20171002	Water	10/02/17 12:30	10/04/17 02:15
480-125214-7	MW-560-20171003	Water	10/03/17 10:15	10/04/17 02:15
480-125214-8	MW-561-20171003	Water	10/03/17 09:15	10/04/17 02:15
480-125214-9	MW-562-20171003	Water	10/03/17 08:30	10/04/17 02:15
480-125214-10	MW-563-20171003	Water	10/03/17 10:53	10/04/17 02:15
480-125214-11	REW-6-20171003	Water	10/03/17 12:55	10/04/17 02:15
480-125214-12	REW-7-20171003	Water	10/03/17 12:15	10/04/17 02:15
480-125214-13	REW-11-20171003	Water	10/03/17 13:30	10/04/17 02:15
480-125214-14	REW-12-20171003	Water	10/03/17 11:30	10/04/17 02:15
480-125214-15	DUP1-20171003	Water	10/03/17 00:00	10/04/17 02:15
480-125214-16	TRIP BLANKS	Water	10/03/17 00:00	10/04/17 02:15

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-125214-1

Login Number: 125214

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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	IESI
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	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-125214-1

Login Number: 125214

List Number: 2

Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

List Creation: 10/04/17 08:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are 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	3.9°C, 1.5°C, 1.1°C, 2.2°C, 1.3°C, 2.7°C
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 containers received 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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

COC No: **37387**
Page: **1** of **2**
Job #:



480-125214 COC

Lab C
Lab PM:
E-Mail:

Sample Collector's Name (Please Print Neatly):
Sample Collector's Phone:
Due Date Requested:
Turnaround Time (TAT) Requested (business days):

Client Information:
Client Contact:
Company:
Address:
City:
State and Zip:
Client's Phone:
Client's Contact Email:
Client's Project Name/Number:
Sample Collection Site Name & Location:

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Codes =>	
					Analysis Reques.	Total Number of Containers (enter total for each line)
DEP-21 - 20171002	10/21/17	0845	G	W	A	3
MW-24M - 20171003	10/21/17	1145	C	W	X	3
MW-24M - 20171003	10/21/17	1005	C	W	X	4
MW-24M - 20171003	10/21/17	1040	C	W	X	3
MW-24M - 20171003	10/21/17	0930	C	W	X	4
MW-24M - 20171003	10/21/17	1230	C	W	X	4
MW-340 - 201710 03	10/31/17	0915	C	W	X	10
MW-341 - 201710 03	10/31/17	0915	C	W	X	10
MW-342 - 201710 03	10/31/17	0830	C	W	X	10
MW-343 - 201710 03	10/31/17	1053	C	W	X	10

Special Instructions & Notes:
CW-3 Requirements

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client
 Disposal By Lab
 Archive For _____ Months

NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!

Received by: [Signature] Date/Time: 10-3-17 1445 Company: TR
 Received by: [Signature] Date/Time: 10-4-17 0215 Company: TR
 Received by: [Signature] Date/Time: 2.6.17 Company: #1

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

Client Information:		Sample Collector's Name (Please Print Neatly):		Lab PM:	Lab COC Barcode Label
Client Contact: <i>Vicki Perrone</i>		Sample Collector's Name: <i>Down Sauro</i>		E-Mail:	COC No: <i>37388</i>
Company: <i>Innovative Engineering Solutions Inc</i>		Sample Collector's Phone: <i>508-404-3196</i>		Page: <i>2</i> of <i>2</i>	
Address: <i>23 Spring St</i>		Due Date Requested: <i>10/11/17</i>		Job #:	
City: <i>Waldpole</i>		Turnaround Time (TAT) Requested (business days): <i>5 days</i>		Preservation Codes:	
State and Zip: <i>MA 02081</i>		Quote # or Project #:		A - Hydrochloric Acid J - Deionized Water	
Client's Phone: <i>508-668-0033</i>		PO #: <i>RA-008</i>		B - Sodium Hydroxide M - Hexane	
Client's Contact Email: <i>v.perrone@iessi.com</i>		WO #:		C - Zinc Acetate N - No Preservative	
Client's Project Name/Number: <i>Procters Wablers RA-008</i>		PWS ID #:		D - Nitric Acid P - Sodium Sulfate	
Sample Collection Site Name & Location: <i>Waldpole MA</i>		Sample Collection Date (MM/DD/YY)		E - Sodium Bisulfite Q - Sodium Sulfite	
		Sample Collection Time (24 Hour Clock)		F - Methanol R - Sodium Thiosulfate	
		Sample Type: C=Comp G=Grab		H - Ascorbic Acid S - Sulfuric Acid	
		Matrix Type **		Z - other (specify)	
		Preservation Codes =>		Regulatory Programs:	
				MCP <input type="checkbox"/> GW1/S1 <input type="checkbox"/>	
				RCP <input type="checkbox"/> CT RSR <input type="checkbox"/>	
				DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/>	
				eDEP Filing <input type="checkbox"/> NPDES <input type="checkbox"/>	
Sample Identification					
<i>REW-4 - 20171003</i>	<i>10/3/17</i>	<i>1855</i>	<i>G</i>	<i>W</i>	<i>10</i>
<i>REW-7 - 20171003</i>	<i>10/3/17</i>	<i>1815</i>	<i>G</i>	<i>W</i>	<i>10</i>
<i>REW-11 - 20171003</i>	<i>10/3/17</i>	<i>1330</i>	<i>G</i>	<i>W</i>	<i>10</i>
<i>REW-12 - 20171003</i>	<i>10/3/17</i>	<i>1130</i>	<i>G</i>	<i>W</i>	<i>10</i>
<i>Dupl - 20171003</i>	<i>-</i>	<i>-</i>	<i>G</i>	<i>W</i>	<i>3</i>
<i>Temp Blank</i>	<i>-</i>	<i>-</i>	<i>G</i>	<i>W</i>	<i>2</i>
Analysis Requested					
<i>8860 MCP</i>	<i>AA</i>	<i>AD</i>	<i>3</i>	<i>NN</i>	<i>10</i>
<i>582 14 Dioxin</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10</i>
<i>6010 MCP Total Iron</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10</i>
<i>3301 MHA</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10</i>
<i>3308 Alkalinity</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10</i>
<i>3008-008 500 mg/L 90% Cl⁻</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10</i>
<i>9500-1-2 500 mg/L 90% Cl⁻</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10</i>
<i>3301-2 500 mg/L 90% Cl⁻</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>10</i>
Special Instructions & Notes:					
<i>400-3</i>					
Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):					
<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!					
Relinquished by: <i>Down Sauro</i>		Date/Time: <i>10/3/17 1425</i>		Company: <i>TEST</i>	
Relinquished by: <i>Down Sauro</i>		Date/Time: <i>10-13-17 1400</i>		Company: <i>TEST</i>	
Relinquished by: <i>Down Sauro</i>		Date/Time: <i>10-13-17 1400</i>		Company: <i>TEST</i>	
Custody Seal Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<i>2.6 2.7</i>	



ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 030CT17
ACTWGT: 52.20 LB
CAD: 590687/CAFE3108

BILL RECIPIENT

ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 030CT17
ACTWGT: 55.85 LB
CAD: 590687/CAFE3108

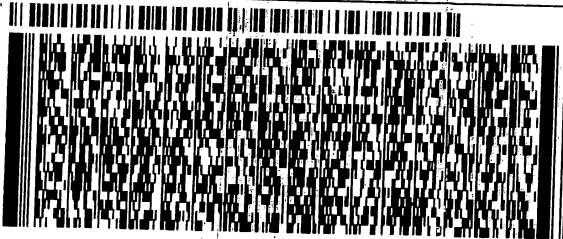
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TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 860-1990
INV:
PO:

REF:

DEPT:



FedEx
Express



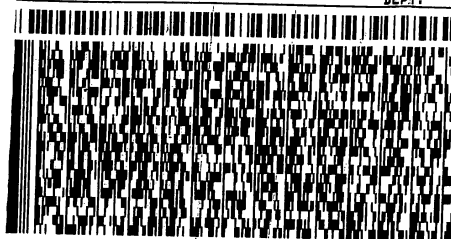
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30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 860-1990
INV:
PO:

REF:

DEPT:



FedEx
Express



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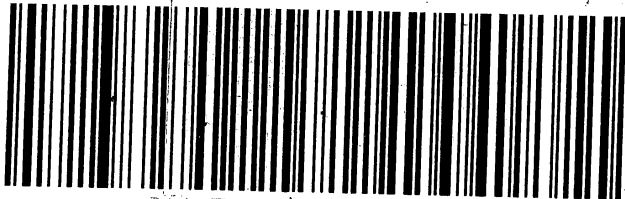
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0263
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WED - 04 OCT 3:00P
STANDARD OVERNIGHT

0201

NC BTVA

05403
VT-US BTV



5 of 6
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0263
Mstr# 4258 8392 2540

WED - 04 OCT 3:00P
STANDARD OVERNIGHT

0201

NC BTVA

05403
VT-US BTV



Part # 156148V-434 R112 0217

ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 030CT17
ACTWGT: 52.05 LB
CAD: 590687/CAFE3108

BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 860-1990
INV:
PO:

REF:

DEPT:



FedEx
Express



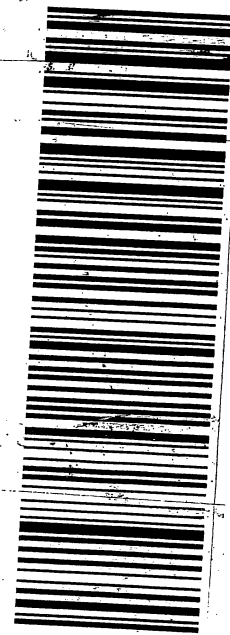
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0263
Mstr# 4258 8392 2540

WED - 04 OCT 3:00P
STANDARD OVERNIGHT

0201

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Part # 156148V-434 R112 0217

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ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 03OCT17
ACTWGT: 54.05 LB
CAD: 590687/CAFE3108

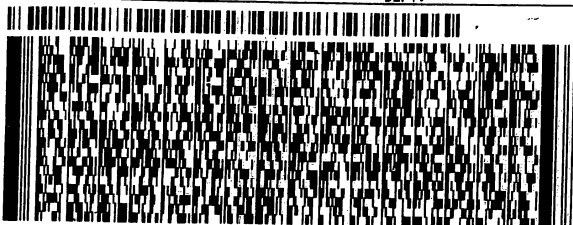
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TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 860-1990
INU:
PO:

REF:

DEPT:



FedEx
Express



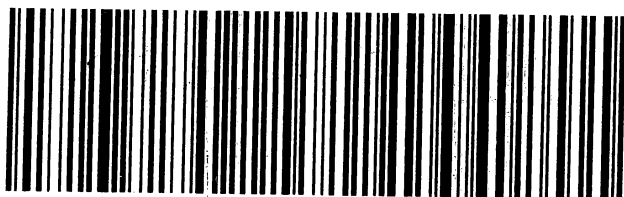
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1 of 6
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WED - 04 OCT 3:00P
STANDARD OVERNIGHT

NC BTVA

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Part # 156148V-434 RIT2 02/17

ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 03OCT17
ACTWGT: 53.95 LB
CAD: 590687/CAFE3108

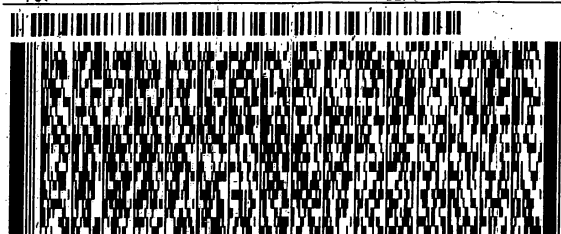
BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 860-1990
INU:
PO:

REF:

DEPT:



FedEx
Express



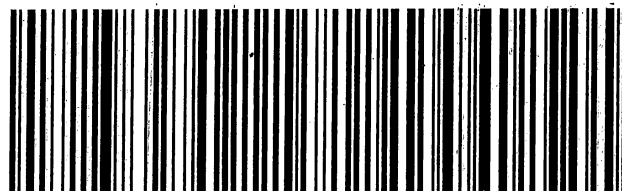
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2 of 6
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0263
Mstr# 4258 8392 2540

WED - 04 OCT 3:00P
STANDARD OVERNIGHT

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VT-US BTV



Part # 156148V-434 RIT2 02/17

ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 03OCT17
ACTWGT: 57.55 LB
CAD: 590687/CAFE3108

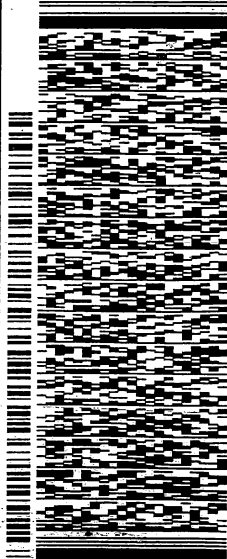
BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 860-1990
INU:
PO:

REF:

DEPT:



FedEx
Express



J171016102001

3 of 6
MPS# 4258 8392 2561
0263
Mstr# 4258 8392 2540

NC BTVA

WED - 04 OCT 3:00P
STANDARD OVERNIGHT

05403
VT-US BTV



Part # 156148V-434 RIT2 02/17

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