II. Suggested Format for the Remediation General Permit Notice of Intent (NOI)

A. General site information:

<table>
<tr><td rowspan="2">1. Name of site:
SM Hodson Co.</td><td colspan="3">Site address:
Street: 26 Brande Court</td></tr>
<tr><td>City: Reading</td><td>State: MA</td><td>Zip: 01867</td></tr>
<tr><td rowspan="4">2. Site owner

Owner is (check one): ☐ Federal ☐ State/Tribal ■ Private
☐ Other; if so, specify:</td><td colspan="3">Contact Person: John Van Horn, LJH Realty Trust (Eng. Robert Coluccio 781-844-8323)</td></tr>
<tr><td colspan="2">Telephone: 781-944-1207</td><td>Email: smithoilco@verizon.net</td></tr>
<tr><td colspan="3">Mailing address:
Street: 26 Brande Court</td></tr>
<tr><td>City: Reading</td><td>State: MA</td><td>Zip: 01867</td></tr>
<tr><td rowspan="4">3. Site operator, if different than owner</td><td colspan="3">Contact Person: John Van Horn, SM Hodson Co.</td></tr>
<tr><td colspan="2">Telephone: 781-944-1207</td><td>Email: smithoilco@verizon.net</td></tr>
<tr><td colspan="3">Mailing address:
Street: 26 Brande Court</td></tr>
<tr><td>City: Reading</td><td>State: MA</td><td>Zip: 01867</td></tr>
<tr><td>4. NPDES permit number assigned by EPA:

NPDES permit is (check all that apply: ■ RGP ☐ DGP ☐ CGP
☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:</td><td colspan="3">5. Other regulatory program(s) that apply to the site (check all that apply):
☐ MA Chapter 21e; list RTN(s):
☐ NH Groundwater Management Permit or Groundwater Release Detection Permit:
☐ CERCLA
☐ UIC Program
☐ POTW Pretreatment
☐ CWA Section 404</td></tr>
</table>

B. Receiving water information:

1. Name of receiving water(s):	Waterbody identification of receiving water(s):	Classification of receiving water(s):
Walker Brook	Walker Brook	B

Receiving water is (check any that apply): ☐ Outstanding Resource Water ☐ Ocean Sanctuary ☐ territorial sea ☐ Wild and Scenic River

2. Has the operator attached a location map in accordance with the instructions in B, above? (check one): ■ Yes ☐ No

Are sensitive receptors present near the site? (check one): ☐ Yes ■ No
If yes, specify:

3. Indicate if the receiving water(s) is listed in the State's Integrated List of Waters (i.e., CWA Section 303(d)). Include which designated uses are impaired, and any pollutants indicated. Also, indicate if a final TMDL is available for any of the indicated pollutants. For more information, contact the appropriate State as noted in Part 4.6 of the RGP. Walk Brook is not listed in the State's Integrated List of Waters

4. Indicate the seven day-ten-year low flow (7Q10) of the receiving water determined in accordance with the instructions in Appendix V for sites located in Massachusetts and Appendix VI for sites located in New Hampshire.	0 per Mass DEP
5. Indicate the requested dilution factor for the calculation of water quality-based effluent limitations (WQBELs) determined in accordance with the instructions in Appendix V for sites in Massachusetts and Appendix VI for sites in New Hampshire.	1.0 per Mass DEP

6. Has the operator received confirmation from the appropriate State for the 7Q10and dilution factor indicated? (check one): ■ Yes ☐ No
If yes, indicate date confirmation received: 7/14/17 - Because Walker Brook is a perennial stream, Mass DEP gave it a dilution factor of 1.0.

7. Has the operator attached a summary of receiving water sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ■ Yes ☐ No

C. Source water information:

1. Source water(s) is (check any that apply):

■ Contaminated groundwater Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ■ Yes ☐ No	☐ Contaminated surface water Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ☐ Yes ☐ No	☐ The receiving water ☐ A surface water other than the receiving water; if so, indicate waterbody:	☐ Potable water; if so, indicate municipality or origin: ☐ Other; if so, specify:

2. Source water contaminants:	
a. For source waters that are contaminated groundwater or contaminated surface water, indicate are any contaminants present that are not included in the RGP? (check one): ☐ Yes ■ No If yes, indicate the contaminant(s) and the maximum concentration present in accordance with the instructions in Appendix VIII.	b. For a source water that is a surface water other than the receiving water, potable water or other, indicate any contaminants present at the maximum concentration in accordance with the instructions in Appendix VIII? (check one): ☐ Yes ☐ No
3. Has the source water been previously chlorinated or otherwise contains residual chlorine? (check one): ☐ Yes ■ No	

D. Discharge information

1.The discharge(s) is a(n) (check any that apply): ☐ Existing discharge ■ New discharge ☐ New source	
Outfall(s): Catch Basin that leads to Walker Brook at Walker Brook Road in Reading	Outfall location(s): (Latitude, Longitude) 42 Degrees 31 Minutes 23 Seconds N 71 Degrees 06 Minutes 22 Seconds W
Discharges enter the receiving water(s) via (check any that apply): ☐ Direct discharge to the receiving water ■ Indirect discharge, if so, specify: ☐ A private storm sewer system ■ A municipal storm sewer system If the discharge enters the receiving water via a private or municipal storm sewer system: Has notification been provided to the owner of this system? (check one): ■ Yes ☐ No Has the operator has received permission from the owner to use such system for discharges? (check one): ■ Yes ☐ No, if so, explain, with an estimated timeframe for obtaining permission: Via Phone conversation. Must include Town of Reading on NOI distribution. No time frame discussed. No conditions discussed. Has the operator attached a summary of any additional requirements the owner of this system has specified? (check one): ☐ Yes ■ No	
Provide the expected start and end dates of discharge(s) (month/year): July 31 to August 15 Indicate if the discharge is expected to occur over a duration of: ■ less than 12 months ☐ 12 months or more ☐ is an emergency discharge	
Has the operator attached a site plan in accordance with the instructions in D, above? (check one): ■ Yes ☐ No	

<table>
<tr><td>2. Activity Category: (check all that apply)</td><td colspan="2">3. Contamination Type Category: (check all that apply)</td></tr>
<tr><td rowspan="4">☐ I – Petroleum-Related Site Remediation
☐ II – Non-Petroleum-Related Site Remediation
■ III – Contaminated Site Dewatering
☐ IV – Dewatering of Pipelines and Tanks
☐ V – Aquifer Pump Testing
☐ VI – Well Development/Rehabilitation
☐ VII – Collection Structure Dewatering/Remediation
☐ VIII – Dredge-Related Dewatering</td><td colspan="2">a. If Activity Category I or II: (check all that apply)

☐ A. Inorganics
☐ B. Non-Halogenated Volatile Organic Compounds
☐ C. Halogenated Volatile Organic Compounds
☐ D. Non-Halogenated Semi-Volatile Organic Compounds
☐ E. Halogenated Semi-Volatile Organic Compounds
☐ F. Fuels Parameters</td></tr>
<tr><td colspan="2">b. If Activity Category III, IV, V, VI, VII or VIII: (check either G or H)</td></tr>
<tr><td>■ G. Sites with Known Contamination</td><td>☐ H. Sites with Unknown Contamination</td></tr>
<tr><td>c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply)

■ A. Inorganics
☐ B. Non-Halogenated Volatile Organic Compounds
☐ C. Halogenated Volatile Organic Compounds
☐ D. Non-Halogenated Semi-Volatile Organic Compounds
☐ E. Halogenated Semi-Volatile Organic Compounds
☐ F. Fuels Parameters</td><td>d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply</td></tr>
</table>

4. Influent and Effluent Characteristics

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
A. Inorganics									
Ammonia	✔			See	.02	ND		Report mg/L	---
Chloride		✔	1	Attached	2	331,000		Report µg/l	---
Total Residual Chlorine		✔	1	Analytical	50	4000		0.2 mg/L	
Total Suspended Solids		✔		Reports	4000	11,800,000		30 mg/L	---
Antimony	✔		1		6	ND		206 µg/L	
Arsenic	✔		1		3	ND		104 µg/L	
Cadmium	✔		1		3	ND		10.2 µg/L	
Chromium III	✔		1	Total CR	4	ND		323 µg/L	
Chromium VI	✔		1		10	ND		323 µg/L	
Copper	✔		1		4	ND		242 µg/L	
Iron		✔	1		100	5170		5,000 µg/L	
Lead		✔	1		3	9		160 µg/L	
Mercury	✔		1		.2	ND		0.739 µg/L	
Nickel	✔		1		.4	ND		1,450 µg/L	
Selenium	✔							235.8 µg/L	
Silver	✔		1		.4	ND		35.1 µg/L	
Zinc		✔	1		20	24.3		420 µg/L	
Cyanide	✔							178 mg/L	
B. Non-Halogenated VOCs									
Total BTEX	✔		1		3	ND		100 µg/L	---
Benzene	✔		1		1	ND		5.0 µg/L	---
1,4 Dioxane	✔							200 µg/L	---
Acetone	✔					ND		7.97 mg/L	---
Phenol								1,080 µg/L	

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
C. Halogenated VOCs									
Carbon Tetrachloride	✔		1		1	ND		4.4 µg/L	
1,2 Dichlorobenzene	✔		1		1	ND		600 µg/L	---
1,3 Dichlorobenzene	✔		1		1	ND		320 µg/L	---
1,4 Dichlorobenzene	✔		1		1	ND		5.0 µg/L	---
Total dichlorobenzene	✔		1			ND		763 µg/L in NH	---
1,1 Dichloroethane	✔		1		1	ND		70 µg/L	---
1,2 Dichloroethane	✔		1		1	ND		5.0 µg/L	---
1,1 Dichloroethylene	✔		1		1	ND		3.2 µg/L	---
Ethylene Dibromide	✔							0.05 µg/L	---
Methylene Chloride	✔		1		2	ND		4.6 µg/L	---
1,1,1 Trichloroethane	✔		1		1	ND		200 µg/L	---
1,1,2 Trichloroethane	✔		1		1	ND		5.0 µg/L	---
Trichloroethylene	✔		1		1	ND		5.0 µg/L	---
Tetrachloroethylene	✔		1		1	ND		5.0 µg/L	
cis-1,2 Dichloroethylene	✔		1		1	ND		70 µg/L	---
Vinyl Chloride	✔		1		1	ND		2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates	✔							190 µg/L	
Diethylhexyl phthalate	✔							101 µg/L	
Total Group I PAHs	✔							1.0 µg/L	---
Benzo(a)anthracene	✔							As Total PAHs	
Benzo(a)pyrene	✔								
Benzo(b)fluoranthene	✔								
Benzo(k)fluoranthene	✔								
Chrysene	✔								
Dibenzo(a,h)anthracene	✔								
Indeno(1,2,3-cd)pyrene	✔								

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
Total Group II PAHs	✔							100 µg/L	---
Naphthalene	✔		1		5	ND		20 µg/L	---
E. Halogenated SVOCs									
Total PCBs	✔							0.000064 µg/L	---
Pentachlorophenol	✔							1.0 µg/L	---
F. Fuels Parameters									
Total Petroleum Hydrocarbons	✔				5000	ND		5.0 mg/L	---
Ethanol	✔							Report mg/L	---
Methyl-tert-Butyl Ether	✔		1		1	ND		70 µg/L	
tert-Butyl Alcohol	✔							120 µg/L in MA 40 µg/L in NH	---
tert-Amyl Methyl Ether	✔		1		2	ND		90 µg/L in MA 140 µg/L in NH	---
Other (i.e., pH, temperature, hardness, salinity, LC_{50}, additional pollutants present); if so, specify:									
pH (SU)		✔	1			8			
Temperature (50 - 60 Deg.)		✔	1						
Hardness (mg/l)		✔	1		4000	306			

E. Treatment system information

1. Indicate the type(s) of treatment that will be applied to effluent prior to discharge: (check all that apply)

☐ Adsorption/Absorption ☐ Advanced Oxidation Processes ☐ Air Stripping ☐ Granulated Activated Carbon ("GAC")/Liquid Phase Carbon Adsorption
☐ Ion Exchange ☐ Precipitation/Coagulation/Flocculation ■ Separation/Filtration ■ Other; if so, specify:

2. Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge.

Treatment system that will consist of one or more 20,000-gallon fractionation tanks for aeration (oxidation) and precipitation of inorganic contaminates and course sedimentation removal. Bag filtration will be used for fine sedimentation removal. Neither chlorination nor de-chlorination will be conducted. If organics are encountered during the dewatering process, GAC will be added to the system.

Identify each major treatment component (check any that apply):
■ Fractionation tanks☐ Equalization tank ☐ Oil/water separator ☐ Mechanical filter ☐ Media filter
☐ Chemical feed tank ☐ Air stripping unit ■ Bag filter ☐ Other; if so, specify:

Indicate if either of the following will occur (check any that apply):
☐ Chlorination ☐ De-chlorination

3. Provide the **design flow capacity** in gallons per minute (gpm) of the most limiting component. Indicate the most limiting component: Is use of a flow meter feasible? (check one): ■ Yes ☐ No, if so, provide justification:	100
Provide the proposed maximum effluent flow in gpm.	100 at startup
Provide the average effluent flow in gpm.	50 at steady state
If Activity Category IV applies, indicate the estimated total volume of water that will be discharged:	

4. Has the operator attached a schematic of flow in accordance with the instructions in E, above? (check one): ■ Yes ☐ No

F. Chemical and additive information

1. Indicate the type(s) of chemical or additive that will be applied to effluent prior to discharge or that may otherwise be present in the discharge(s): (check all that apply)

☐ Algaecides/biocides ☐ Antifoams ☐ Coagulants ☐ Corrosion/scale inhibitors ☐ Disinfectants ☐ Flocculants ☐ Neutralizing agents ☐ Oxidants ☐ Oxygen ☐ scavengers ☐ pH conditioners ☐ Bioremedial agents, including microbes ☐ Chlorine or chemicals containing chlorine ☐ Other; if so, specify:

2. Provide the following information for each chemical/additive, using attachments, if necessary:

a. Product name, chemical formula, and manufacturer of the chemical/additive;
b. Purpose or use of the chemical/additive or remedial agent;
c. Material Safety Data Sheet (MSDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive;
d. The frequency (hourly, daily, etc.), duration (hours, days), quantity (maximum and average), and method of application for the chemical/additive;
e. Any material compatibility risks for storage and/or use including the control measures used to minimize such risks; and
f. If available, the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)).

3. Has the operator attached an explanation which demonstrates that the addition of such chemicals/additives may be authorized under this general permit in accordance with the instructions in F, above? (check one): ☐ Yes ☐ No; if no, has the operator attached data that demonstrates each of the 126 priority pollutants in CWA Section 307(a) and 40 CFR Part 423.15(j)(1) are non-detect in discharges with the addition of the proposed chemical/additive? (check one): ☐ Yes ☐ No

G. Endangered Species Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

☐ **FWS Criterion A**: No endangered or threatened species or critical habitat are in proximity to the discharges or related activities or come in contact with the "action area".

■ **FWS Criterion B**: Formal or informal consultation with the FWS under section 7 of the ESA resulted in either a no jeopardy opinion (formal consultation) or a written concurrence by FWS on a finding that the discharges and related activities are "not likely to adversely affect" listed species or critical habitat (informal consultation). Has the operator completed consultation with FWS? (check one): ■ Yes ☐ No; if no, is consultation underway? (check one): ☐ Yes ☐ No

☐ **FWS Criterion C**: Using the best scientific and commercial data available, the effect of the discharges and related activities on listed species and critical habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the operator and affirmed by EPA, that the discharges and related activities will have "no effect" on any federally threatened or endangered listed species or designated critical habitat under the jurisdiction of the FWS. This determination was made by: (check one) ☐ the operator ☐ EPA ☐ Other; if so, specify:

☐ **NMFS Criterion**: A determination made by EPA is affirmed by the operator that the discharges and related activities will have "no effect" or are "not likely to adversely affect" any federally threatened or endangered listed species or critical habitat under the jurisdiction of NMFS and will not result in any take of listed species. Has the operator previously completed consultation with NMFS? (check one): ☐ Yes ☐ No

2. Has the operator attached supporting documentation of ESA eligibility in accordance with the instructions in Appendix I, and G, above? (check one): ☐ Yes ■ No

Does the supporting documentation include any written concurrence or finding provided by the Services? (check one): ☐ Yes ☐ No; if yes, attach.

H. National Historic Preservation Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

■ **Criterion A**: No historic properties are present. The discharges and discharge-related activities (e.g., BMPs) do not have the potential to cause effects on historic properties.

☐ **Criterion B**: Historic properties are present. Discharges and discharge related activities do not have the potential to cause effects on historic properties.

☐ **Criterion C**: Historic properties are present. The discharges and discharge-related activities have the potential to have an effect or will have an adverse effect on historic properties.

2. Has the operator attached supporting documentation of NHPA eligibility in accordance with the instructions in H, above? (check one): ■ Yes ☐ No

Does the supporting documentation include any written agreement with the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (TPHO), or other tribal representative that outlines measures the operator will carry out to mitigate or prevent any adverse effects on historic properties? (check one): ☐ Yes ■ No

I. Supplemental information

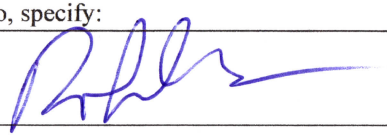
Describe any supplemental information being provided with the NOI. Include attachments if required or otherwise necessary.

Site plan, Site Locus, Stream Stats, Analytical Reports, , NHPA Confirmation, MACRIS Results, Dilution Factor Calc.

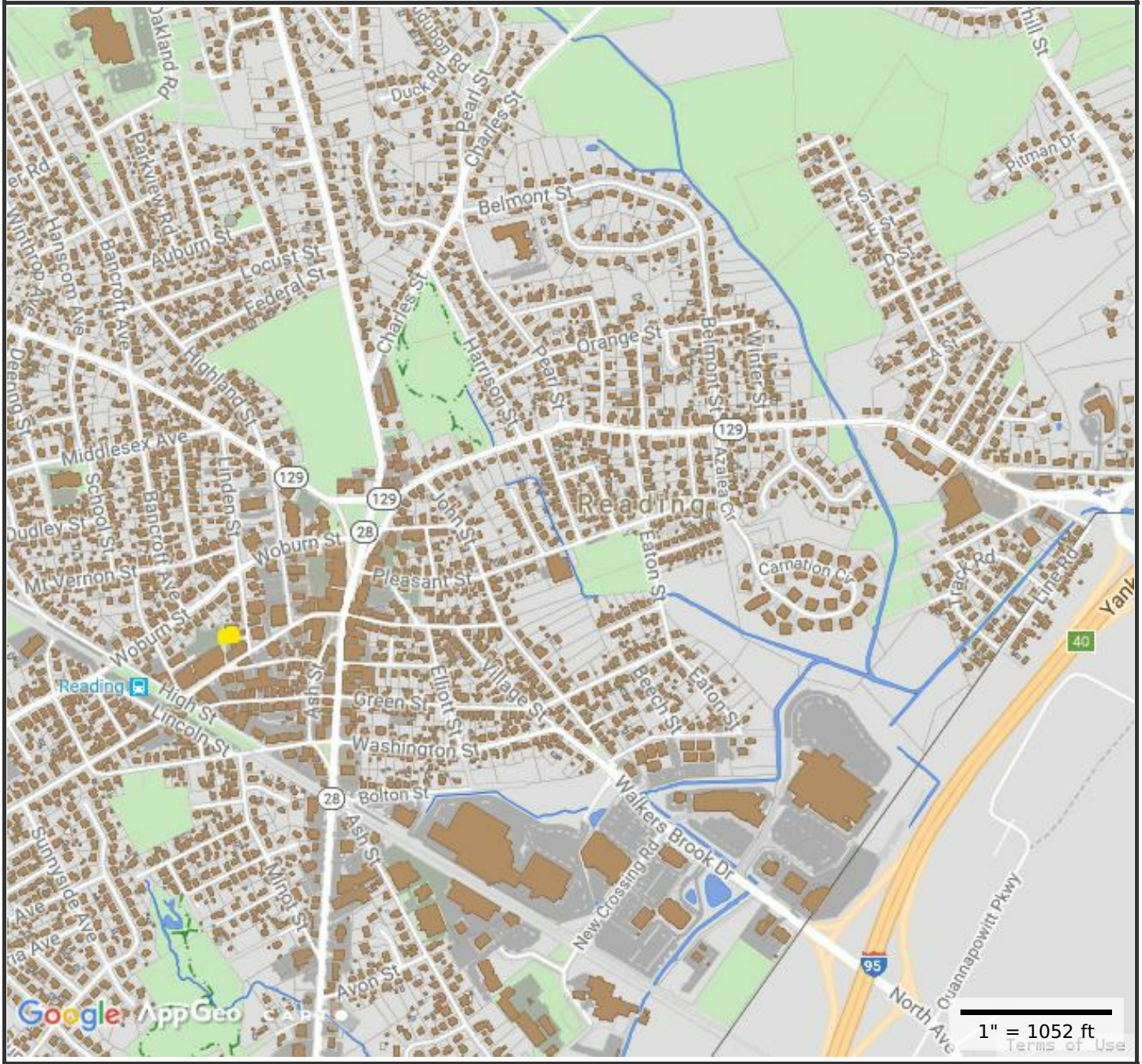
Has the operator attached data, including any laboratory case narrative and chain of custody used to support the application? (check one): ■ Yes ☐ No

Has the operator attached the certification requirement for the Best Management Practices Plan (BMPP)? (check one): ☐ Yes ■ No

J. Certification requirement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
BMPP certification statement:
Notification provided to the appropriate State, including a copy of this NOI, if required. Check one: Yes ■ No ☐
Notification provided to the municipality in which the discharge is located, including a copy of this NOI, if requested. Check one: Yes ■ No ☐
Notification provided to the owner of a private or municipal storm sewer system, if such system is used for site discharges, including a copy of this NOI, if requested. Check one: Yes ■ No ☐ NA ☐ Permission obtained from the owner of a private or municipal storm sewer system, if such system is used for site discharges. If yes, attach additional conditions. If no, attach explanation and timeframe for obtaining permission. Check one: Yes ■ No ☐ NA ☐
Notification provided to the owner/operator of the area associated with activities covered by an additional discharge permit(s). Additional discharge permit is (check one): ■ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify: Check one: Yes ■ No ☐ NA ☐
Signature:  Date: 7-21-17
Print Name and Title: Robert P. Coluccio, Senior Engineer

SM Hodson



Property Information

Property ID	016.0-0000-0383.0
Location	26 BRANDE CT
Owner	LJH BRANDE COURT LLC

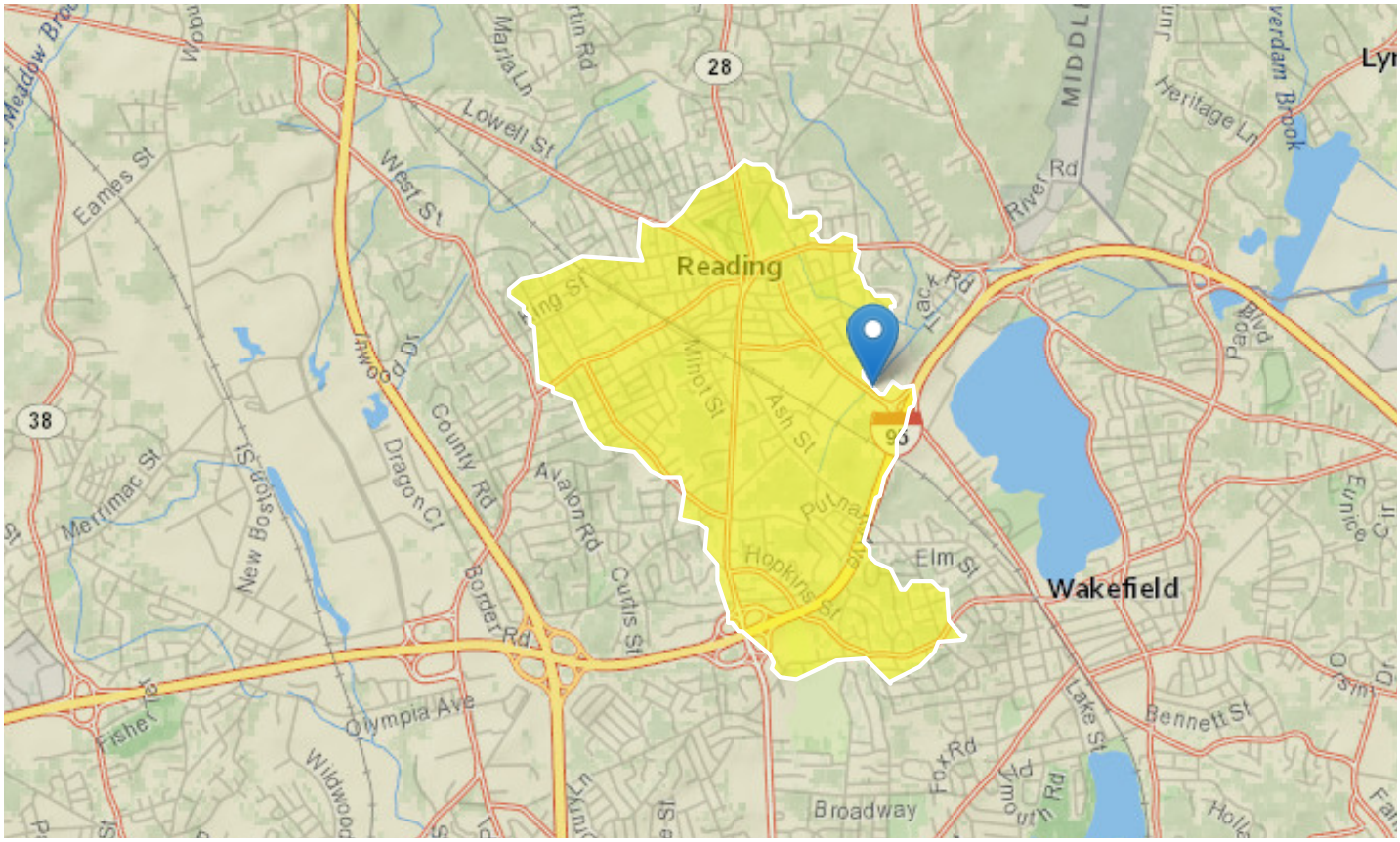
MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

Town of Reading, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Parcels updated 1/1/2016
Properties updated 1/1/2016

StreamStats Report

Region ID:	MA
Workspace ID:	MA20170714115552941000
Clicked Point (Latitude, Longitude):	42.51852, -71.09210
Time:	2017-07-14 11:57:07 -0400



RGP Discharge from 26 Brande Court in Reading to Walker Brook

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	2.12	square miles
BSLDEM250	Mean basin slope computed from 1:250K DEM	1.346	percent
DRFTPERSTR	Area of stratified drift per unit of stream length	0.73	square mile per mile
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless
PCTSNDGRV	Percentage of land surface underlain by sand and gravel deposits	40.14	percent
FOREST	Percentage of area covered by forest	2.16	percent

Low-Flow Statistics Parameters [100 Percent (2.12 square miles) Statewide Low Flow WRIR00 4135]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.12	square miles	1.61	149
BSLDEM250	Mean Basin Slope from 250K DEM	1.346	percent	0.32	24.6
DRFTPERSTR	Stratified Drift per Stream Length	0.73	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1

Low-Flow Statistics Flow Report [100 Percent (2.12 square miles) Statewide Low Flow WRIR00 4135]

PIl: Prediction Interval-Lower, PIu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PIl	PIu	SE	SEp
7 Day 2 Year Low Flow	0.374	ft^3/s	0.0831	1.62	49.5	49.5
7 Day 10 Year Low Flow	0.18	ft^3/s	0.0329	0.919	70.8	70.8

Low-Flow Statistics Citations

Ries, K.G., III,2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (http://pubs.usgs.gov/wri/wri004135/)

Probability Statistics Parameters [100 Percent (2.12 square miles) Perennial Flow Probability]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.12	square miles	0.01	1.99
PCTSNDGRV	Percent Underlain By Sand And Gravel	40.14	percent	0	100
FOREST	Percent Forest	2.16	percent	0	100
MAREGION	Massachusetts Region	0	dimensionless	0	1

Probability Statistics Disclaimers [100 Percent (2.12 square miles) Perennial Flow Probability]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Probability Statistics Flow Report [100 Percent (2.12 square miles) Perennial Flow Probability]

Statistic	Value	Unit
Probability Stream Flowing Perennially	0.981	dim

Probability Statistics Citations

Bent, G.C., and Steeves, P.A.,2006, A revised logistic regression equation and an automated procedure for mapping the probability of a stream flowing perennially in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2006–5031, 107 p. (http://pubs.usgs.gov/sir/2006/5031/pdfs/SIR_2006-5031rev.pdf)

Subject: **Re: RGP - here is my email address**
Date: 7/14/2017 12:11:42 PM Eastern Standard Time
From: Catherine.Vakalopoulos@MassMail.State.MA.US
To: rpcoluccio@aol.com
Cc: xiaodan.ruan@state.ma.us

Hi Bob,
Your calculations are correct, however, please see the attached StreamStats report that also includes the Probability Statistics. If you scroll down towards the bottom, you will see that Walker Brook has a 98% chance of being perennial, i.e. intermittent. Since we are asking for the dilution factor during low flow conditions and it is likely that this brook runs dry during the late summer/early fall, no dilution can be granted and so the dilution factor = 1.

Walker Brook in Reading and Lake Quannapowitt in Wakefield are not listed as Outstanding Resource Waters, therefore you are all set from me. Please either attach this email to the NOI or add today's date where you indicate that you have consulted with MassDEP on the NOI. This will be helpful when EPA reviews the NOI.

Let me know if you have any further questions.

Cathy Vakalopoulos
MassDEP
617-348-4026

From: rpcoluccio@aol.com <rpcoluccio@aol.com>
Sent: Wednesday, July 12, 2017 6:37 PM
To: Vakalopoulos, Catherine (DEP)
Subject: Re: RGP - here is my email address

See attached Streamstats and Drainage Basin files

Discharge Site Address: 26 Brande Court, Reading, Massachusetts
Discharge to Catch Basin on Brande Court, follows Reading Drainage system (series of culverts and open drainage channels)
Receiving Water: Walker Brook (near intersection of General Way and Walker Brook Road in Reading)
7Q10 from Stream Stats = .18 cfs = 0.12 MGD
Design Flow = 100 gpm = .14 MGD
Dilution Factor = (.12+.14)/.14 = 1.9

Let me know if you have any questions. You can email me or call me at 781-844-8323.

Bob Coluccio
Web Engineering

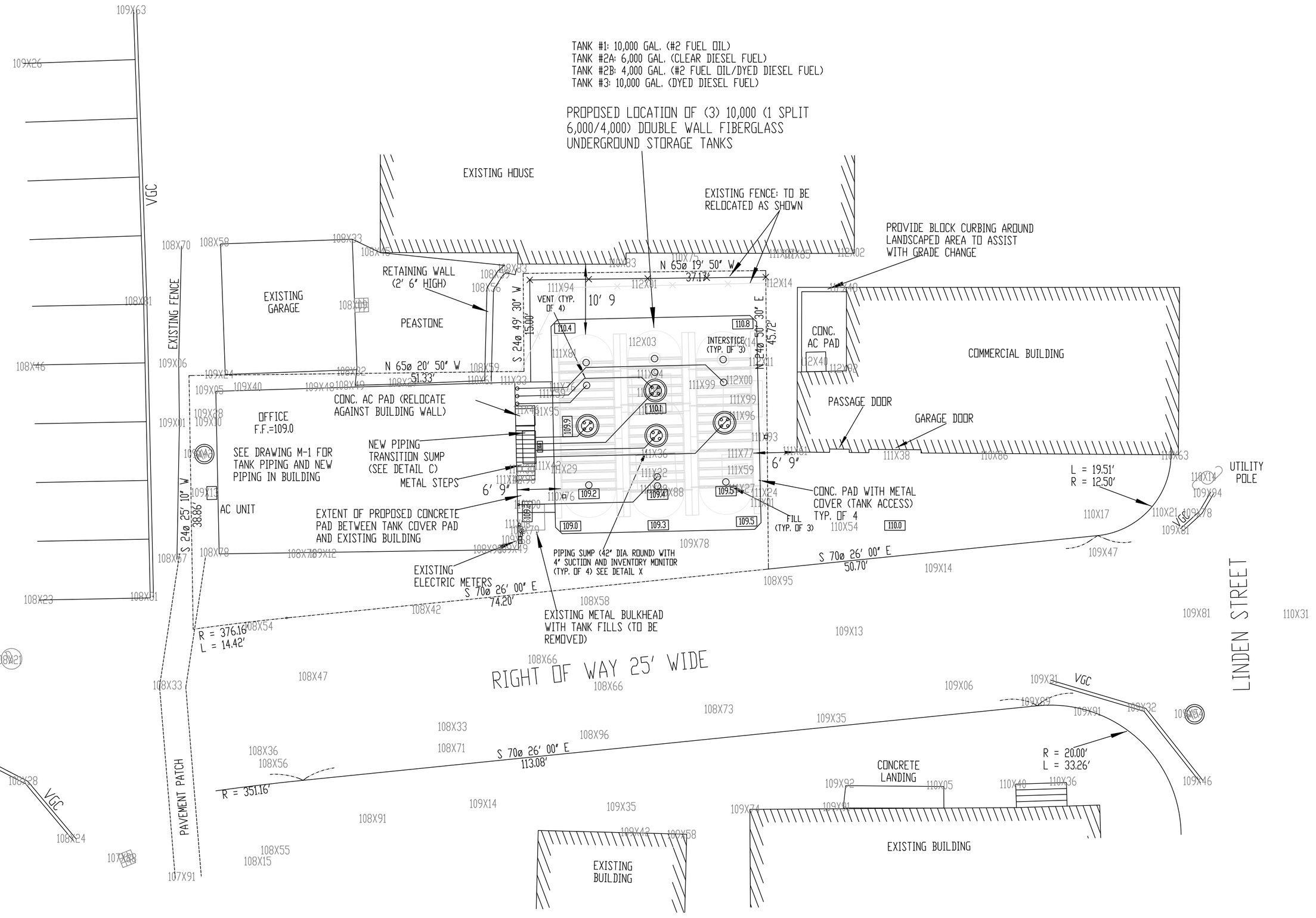
In a message dated 7/12/2017 1:51:02 PM Eastern Standard Time,
Catherine.Vakalopoulos@MassMail.State.MA.US writes:

> In preparation of your EPA NOI, when you are ready, please send me the 7Q10 and dilution factor calculation for review.
>
> Some helpful tips:

Please include address of the site so I can see where it is in relation to the discharge location on Walker Brook.
Include information about how it gets to the brook (e.g. direct discharge, goes into town's MS4 stormdrain, etc.)
Make sure you use the design flow of the treatment system (not an average flow).
If you do the calculation by hand, be sure to convert the 7Q10 from cubic feet per second to MGD and the design flow from gpd to MGD.

Thanks.
Cathy

Cathy Vakalopoulos, Massachusetts Department of Environmental Protection
1 Winter St., Boston, MA 02108, 617-348-4026
Please consider the environment before printing this e-mail



DRAWING LIST:

A-1 SITE PLAN - PROPOSED MODIFICATIONS
S-1 CONCRETE
M-1 PIPING / MECHANICAL
M-2 DETAILS AND TANK ELEVATIONS
M-3 10,000 GALLON UNDERGROUND STORAGE TANKS

NOTE: SHORING AT TANK EXCAVATION IS TO BE CERTIFIED BY A MASSACHUSETTS CERTIFIED PROFESSIONAL ENGINEER. SHORING PLANS TO BE SUBMITTED TO ENGINEER BEFORE COMMENCING EXCAVATION. ZERO MOVEMENT OF SHORING AND TANK SETTLEMENT ALLOWED. SHORING TO REMAIN IN PLACE OR BE REMOVED AT CONTRACTOR'S DISECRETION AND AT NO ADDITIONAL CHARGE TO OWNER.

ASPHALT REPAIR/RESTORATION:

ALL ASPHALT CUTS SHALL BE STRAIGHT LINES, NEATLY LAID OUT PRIOR TO CUTTING.

REPAIR/RESTORE AFFECTED ASPHALT AS REQUIRED UPON COMPLETION OF CONSTRUCTION ACCORDING TO THE FOLLOWING SPECIFICATION:

ASPHALT CONCRETE SHALL CONSIST OF A TWO-COURSE, CLASS 1, TYPE I-1 BITUMINOUS CONCRETE LAID IN TWO (2) COURSES; THE BOTTOM COURSE 2-1/2" COMPACTED THICKNESS, MIXED WITH COARSE AGGREGATE; AND THE TOP COURSE 1-1/2" COMPACTED THICKNESS, MIXED WITH FINE AGGREGATE. THE THICKNESSES GIVEN HEREIN FOR PAVEMENT ARE MINIMUM COMPACTED DIMENSIONS AND NOT "AVERAGE THICKNESSES. CONFORM TO MASSACHUSETTS STATE HIGHWAY REQUIREMENTS.

GENERAL TESTING NOTES:

1) ALL SUMPS SHALL PASS A TIGHTNESS TEST AT INSTALLATION TO ENSURE THE SUMP IS LIQUID TIGHT BY USING VACUUM, PRESSURE, OR LIQUID TESTING. THE STANDARD FOR FAILING IS 1 INCH OR GREATER LOSS OF WATER WITHIN ONE HOUR.
2) AFTER INSTALLATION, BACKFILLING AND SURFACING TO GRADE, BUT PRIOR TO PUTTING REGULATED SUBSTANCE INTO THE TANK, EACH TANK SHALL PASS A TIGHTNESS TEST PURSUANT TO 310 CMR 80.32.
3) AFTER INSTALLATION, BACKFILLING AND SURFACING TO GRADE, BUT PRIOR TO PUTTING REGULATED SUBSTANCE INTO THE TANK, PIPING SHALL PASS A TIGHTNESS TEST PURSUANT TO 310 CMR 80.32.
4) ALL UST SYSTEMS SHALL BE INSPECTED BY THE PERSON, WHO PREPARES THE DRAWING OR AS-BUILT PLANS IN ACCORDANCE WITH 310 CMR 80.16(7), OR THEIR DESIGNATED REPRESENTATIVE, PRIOR TO BEING BACKFILLED, TO ENSURE THE UST SYSTEM IS INSTALLED IN ACCORDANCE WITH 310 CMR 80.14 THROUGH 80.22.
5) IF THE PERSON WHO PREPARES THE DRAWING OR AS-BUILT PLANS, OR THEIR DESIGNATED REPRESENTATIVE, DETERMINES THE UST SYSTEM IS NOT INSTALLED IN ACCORDANCE WITH 310 CMR 80.14 THROUGH 80.22, THE UST SYSTEM SHALL NOT BE BACKFILLED UNTIL THE OWNER OR OPERATOR OF THE UST SYSTEM COMPLIES WITH ALL REQUIREMENTS AT 310 CMR 80.14 THROUGH 80.22.
6) PROVIDE ENGINEER WITH TANK MANUFACTURER'S CHECKLIST COMPLETED BY CONTRACTOR.

GENERAL NOTES:

1) CONSTRUCTION TO MEET OR EXCEED:
   A) NFPA 1 "FIRE CODE" 2012 EDITION
   B) NFPA 30 "FLAMMABLE AND COMBUSTIBLE LIQUID CODE" (2012 ED.)
   C) 527 CMR 1.00 "MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE"
   D) 310 CMR 80.00 "UNDERGROUND STORAGE TANK (UST) REGULATIONS"
2) ALL STRUCTURES TO MEET OR EXCEED THE LATEST REVISION OF AISC AND A58 SPECIFICATIONS.
3) ALL STRUCTURES TO MEET OR EXCEED MASSACHUSETTS BUILDING CODES.
4) STEEL CONSTRUCTION TO MEET OR EXCEED THE LATEST REVISION OF AISC AND A58 SPECIFICATIONS.
5) TANKS TO BE EQUIPPED WITH HIGH LEVEL PROBE HAVING A HIGH LEVEL ALARM SET AT 90% CAPACITY. AUDIBLE/VISIBLE HIGH LEVEL ALARM TO HAVE ACKNOWLEDGE SWITCH.
6) TANK FILLS TO BE EQUIPPED WITH AN OVERFILL PREVENTION DEVICE SET AT 95% CAPACITY.

108X91 EXISTING SPOT ELEVATION

110.0 PROPOSED SPOT ELEVATION

SEE DRAWINGS M-1 AND M-2 FOR REFERENCED DETAILS

THIS DRAWING TAKEN FROM A PLAN OF LAND BY WILLIAMS & SPARAGES OF MIDDLETON, MASSACHUSETTS AND SHOULD NOT BE USED FOR THE DETERMINATION OF PROPERTY LINES, METES, BOUNDS, ETC.

DRAFT

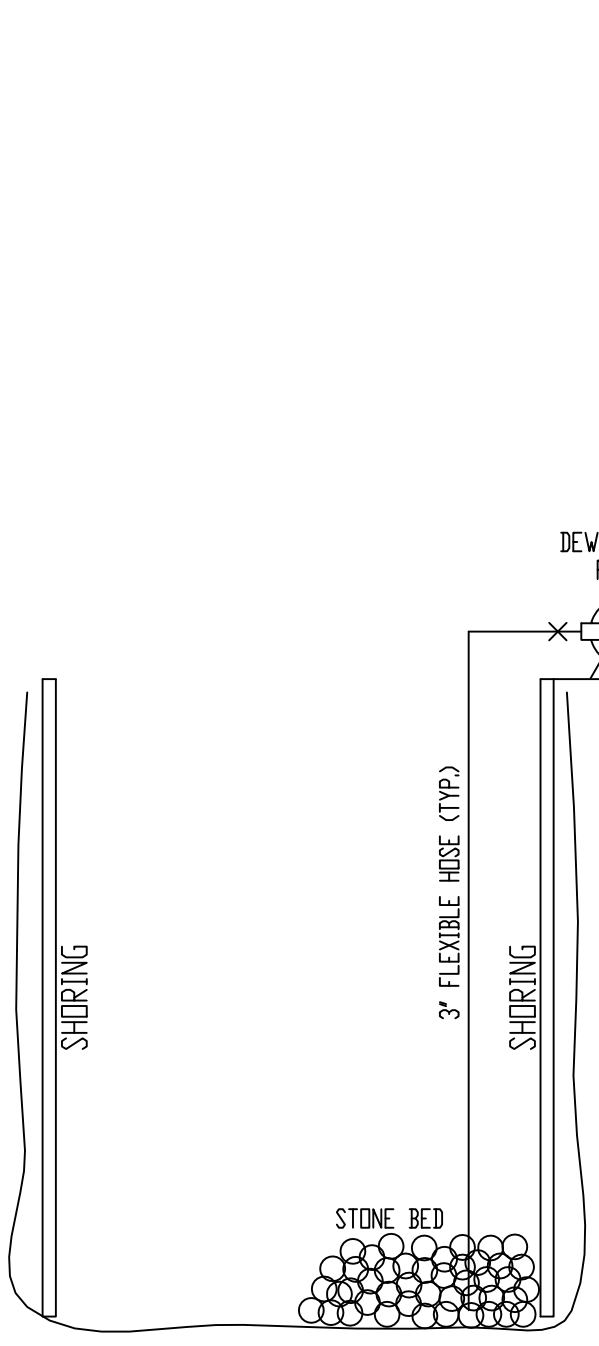
WEB ENGINEERING ASSOCIATES, INC.
111 SUMMER STREET, SCITUATE, MA 02066

DATE: 3/20/17	FILE: PROPOSED F WEB ENGINEERING DRAWING NUMBER 17XXX	DRAWN BY: JAS
SCALE: 1" = 10'		JOB #: 17-E-003

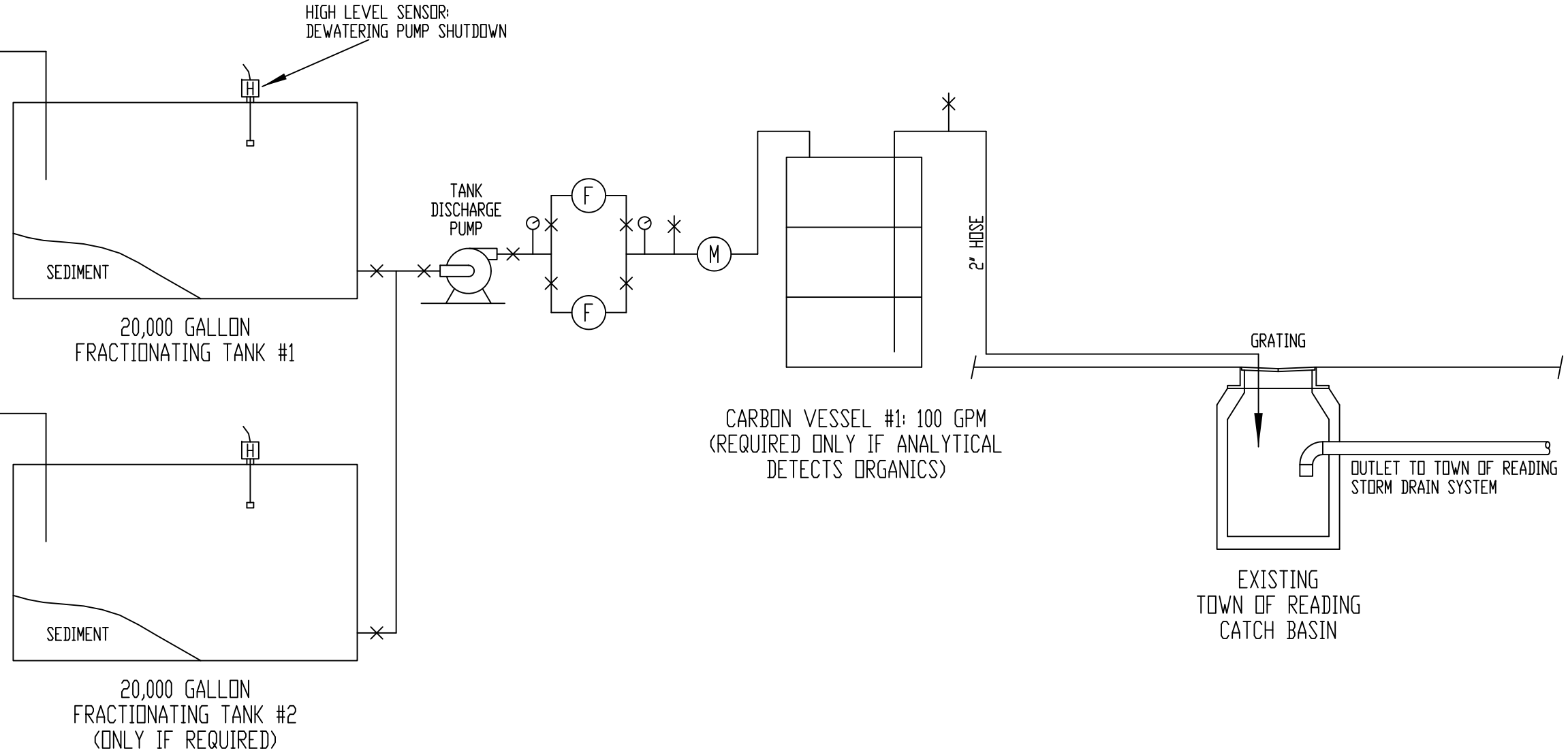
S. M. HODSON CO. INC.
26 BRANDE COURT, READING, MASSACHUSETTS

SITE PLAN - PROPOSED MODIFICATIONS

DRAWING No: A-1



TANK EXCAVATION



EXCAVATION DEWATERING AND TREATMENT SYSTEM

PUMP

(F) FILTER

(M) METER

PRESSURE GAUGE

SAMPLING POINT

× FLOW CONTROL VALVE

WEB ENGINEERING ASSOCIATES, INC.
111 SUMMER STREET, SCITUATE, MASSACHUSETTS 02066

DATE: 3/20/17	FILE: WATER TREATMENT SCHEMATIC	DRAWN BY: JAS
SCALE: NONE		JOB #: 17-E-003

S. M. HODSON CO. INC.
26 BRANDE COURT, READING, MASSACHUSETTS

WATER TREATMENT SYSTEM SCHEMATIC

United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
http://www.fws.gov/newengland

January 20, 2017

To Whom It May Concern:

This project was reviewed for the presence of federally listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm (accessed January 2017)

Based on information currently available to us, no federally listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required. No further Endangered Species Act coordination is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Maria Tur of this office at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office

Massachusetts Cultural Resource Information System
MACRIS

MHC Home | MACRIS Home

Results

Get Results in Report Format
PDF Spreadsheet

Below are the results of your search, using the following search criteria:
Town(s): Reading
Place: Downtown
Street No: 26
Street Name: Brande Ct

For more information about this page and how to use it, click here

No Results Found.

New Search | New Search – Same Town(s) | Previous

MHC Home | MACRIS Home

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e-Hardcopy 2.0
Automated Report

Technical Report for

Web Engineering Associates, Inc.

SM Hodson, 26 Brande Court, Reading, MA

SGS Accutest Job Number: JC46968

Sampling Date: 07/13/17

Report to:

Web Engineering Associates
111 Summer Street
Scituate, MA 02066
RPColiccio@aol.com

ATTN: Bob Coluccio

Total number of pages in report: **38**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Rocus Peters 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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Sample Summary

Web Engineering Associates, Inc.

SM Hodson, 26 Brande Court, Reading, MA

Job No: JC46968

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC46968-1	07/13/17	09:00	BC	07/13/17	AQ	Water	WALKER BROOK (1)
JC46968-2	07/13/17	10:00	BC	07/13/17	AQ	Water	GROUNDWATER (2)

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Web Engineering Associates, Inc. **Job No** JC46968

Site: SM Hodson, 26 Brande Court, Reading, MA **Report Date** 7/18/2017 4:03:00 PM

On 07/14/2017, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 3.7 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC46968 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Please refer to certification exceptions summary for additional certification information.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP1932

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC46995-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Copper, Nickel, Silver are outside control limits for sample MP1932-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: AQ **Batch ID:** MP1924

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 1664A

Matrix: AQ **Batch ID:** GP6606

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM21 4500CL F

Matrix: AQ **Batch ID:** M:GN55961

- The data for SM21 4500CL F meets quality control requirements.
- JC46968-2 for Total Residual Chlorine: Analysis performed past the required 15 minutes of collection time/holding time. Analysis performed at SGS Accutest, Marlborough, MA.

Wet Chemistry By Method SM21 4500HB/EPA150.1

Matrix: AQ **Batch ID:** M:GN55964

- The data for SM21 4500HB/EPA150.1 meets quality control requirements.
- JC46968-1 for pH: Analysis performed past the required 15 minutes of collection time/holding time. Analysis performed at SGS Accutest, Marlborough, MA.

Wet Chemistry By Method SM2340 C-11

Matrix: AQ **Batch ID:** GN66982

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM2540 D-11

Matrix:	AQ	Batch ID:	GN66919

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM4500NH3 H-11LACHAT

Matrix:	AQ	Batch ID:	GP6564

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SW846 6010/7196A M

Matrix:	AQ	Batch ID:	R164485

- The data for SW846 6010/7196A M meets quality control requirements.
- JC46968-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Wet Chemistry By Method SW846 7196A

Matrix:	AQ	Batch ID:	M:GN55962

- The data for SW846 7196A meets quality control requirements.
- JC46968-1 for Chromium, Hexavalent: Analysis performed at SGS Accutest, Marlborough, MA.

SGS Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS Accutest is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS Accutest indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	SGS Accutest New Jersey	**Job No**	JC46968
Site:	WEBMAN: SM Hodson, 26 Brande Court, Reading, MA	**Report Date**	7/18/2017 2:37:45 PM

2 Sample(s) were collected on 07/13/2017 and were received at SGS Accutest New England on 07/14/2017 properly preserved, at 1.4 Deg. C and intact. These Samples received a job number of JC46968. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Wet Chemistry By Method SM21 4500CL F

Matrix: AQ **Batch ID:** GN55961

- All method blanks for this batch meet method specific criteria.
- JC46968-2 for Total Residual Chlorine: Analysis performed past the required 15 minutes of collection time/holding time.

Wet Chemistry By Method SM21 4500HB/EPA150.1

Matrix: AQ **Batch ID:** GN55964

- JC46968-1 for pH: Analysis performed past the required 15 minutes of collection time/holding time.

Wet Chemistry By Method SW846 7196A

Matrix: AQ **Batch ID:** GN55962

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(JC46968).

Summary of Hits

Job Number: JC46968
Account: Web Engineering Associates, Inc.
Project: SM Hodson, 26 Brande Court, Reading, MA
Collected: 07/13/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC46968-1	**WALKER BROOK (1)**					
Iron		533	100		ug/l	SW846 6010C
Zinc		38.8	20		ug/l	SW846 6010C
Hardness, Total as CaCO3		119	4.0		mg/l	SM2340 C-11
pH [a]		6.6			su	SM21 4500HB/EPA150.1
JC46968-2	**GROUNDWATER (2)**					
Hardness, Total as CaCO3		306	4.0		mg/l	SM2340 C-11
Solids, Total Suspended		11800	4.0		mg/l	SM2540 D-11
Total Residual Chlorine [a]		4.0	0.050		mg/l	SM21 4500CL F

(a) Analysis performed past the required 15 minutes of collection time/holding time. Analysis performed at SGS Accutest, Marlborough, MA.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: WALKER BROOK (1)
Lab Sample ID: JC46968-1
Matrix: AQ - Water
Project: SM Hodson, 26 Brande Court, Reading, MA

Date Sampled: 07/13/17
Date Received: 07/13/17
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	07/17/17	07/17/17	ND	SW846 6010C [2]	SW846 3010A [4]
Arsenic	< 3.0	3.0	ug/l	1	07/17/17	07/17/17	ND	SW846 6010C [2]	SW846 3010A [4]
Cadmium	< 3.0	3.0	ug/l	1	07/17/17	07/17/17	ND	SW846 6010C [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	07/17/17	07/17/17	ND	SW846 6010C [2]	SW846 3010A [4]
Copper	< 10	10	ug/l	1	07/17/17	07/17/17	ND	SW846 6010C [2]	SW846 3010A [4]
Iron	533	100	ug/l	1	07/17/17	07/17/17	ND	SW846 6010C [2]	SW846 3010A [4]
Lead	< 3.0	3.0	ug/l	1	07/17/17	07/17/17	ND	SW846 6010C [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	07/15/17	07/15/17	JA	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 10	10	ug/l	1	07/17/17	07/17/17	ND	SW846 6010C [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	07/17/17	07/17/17	ND	SW846 6010C [2]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	07/17/17	07/17/17	ND	SW846 6010C [2]	SW846 3010A [4]
Zinc	38.8	20	ug/l	1	07/17/17	07/17/17	ND	SW846 6010C [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA42419
(2) Instrument QC Batch: MA42430
(3) Prep QC Batch: MP1924
(4) Prep QC Batch: MP1932

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WALKER BROOK (1)		
Lab Sample ID:	JC46968-1	**Date Sampled:**	07/13/17
Matrix:	AQ - Water	**Date Received:**	07/13/17
		Percent Solids:	n/a
Project:	SM Hodson, 26 Brande Court, Reading, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent [a]	< 0.010	0.010	mg/l	1	07/13/17 18:10	AMA	SW846 7196A
Chromium, Trivalent [b]	< 0.020	0.020	mg/l	1	07/17/17 20:37	ND	SW846 6010/7196A M
Hardness, Total as CaCO3	119	4.0	mg/l	1	07/18/17 10:36	MP	SM2340 C-11
Nitrogen, Ammonia	< 0.20	0.20	mg/l	1	07/17/17 10:49	BM	SM4500NH3 H-11LACHAT
pH [c]	6.6		su	1	07/13/17 17:47	AMA	SM21 4500HB/EPA150.1

(a) Analysis performed at SGS Accutest, Marlborough, MA.
(b) Calculated as: (Chromium) - (Chromium, Hexavalent)
(c) Analysis performed past the required 15 minutes of collection time/holding time. Analysis performed at SGS Accutest, Marlborough, MA.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GROUNDWATER (2)		
Lab Sample ID:	JC46968-2	**Date Sampled:**	07/13/17
Matrix:	AQ - Water	**Date Received:**	07/13/17
		Percent Solids:	n/a
Project:	SM Hodson, 26 Brande Court, Reading, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Petroleum Hydrocarbons	< 5.0	5.0	mg/l	1	07/18/17 13:00	TT	EPA 1664A
Hardness, Total as CaCO3	306	4.0	mg/l	1	07/18/17 10:36	MP	SM2340 C-11
Nitrogen, Ammonia	< 0.20	0.20	mg/l	1	07/17/17 10:51	BM	SM4500NH3 H-11LACHAT
Solids, Total Suspended	11800	4.0	mg/l	1	07/16/17 12:53	TZW	SM2540 D-11
Total Residual Chlorine [a]	4.0	0.050	mg/l	1	07/13/17 17:18	AMA	SM21 4500CL F

(a) Analysis performed past the required 15 minutes of collection time/holding time. Analysis performed at SGS Accutest, Marlborough, MA.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- MCP Form
- MCP Form (SGS Accutest New England)
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

Parameter Certification Exceptions

Job Number: JC46968
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson, 26 Brande Court, Reading, MA

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Chromium, Trivalent		**SW846 6010/7196A M**	AQ	Accutest is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

CHAIN OF CUSTODY

SGS ACCUTEST

SGS Accutest of New England
50 D'Angelo Drive/495 Technology Center West, Building One Marlborough, MA 01752
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE ___ OF ___

FED-EX Tracking # 727375164289 | Bottle Order Control # | SGS Accutest Quote # | SGS Accutest Job # JC46968

Client / Reporting Information

Company Name: Web Engineering
Street Address: 111 Summer St
City: Scituate State: MA Zip: 02066
Project Contact: Bob Coluccio E-mail: RPColuccio@AOL.com
Phone #: 781-844-8323 Fax #:
Sampler(s) Name(s): Bob Coluccio Phone #: 781-844-8323

Project Information

Project Name: SM Hodson
Street: 26 Brando Court
City: Reading, MA
Project#:
Client PO#: SM Hodson
Project Manager: Bob Coluccio

Billing Information (If different from Report to)

Company Name:
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	Collection: MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	Preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	Hardness	Ammonia	pH	Sb, As, Cd, Cr, Cu, Fe, Pb	Hg, Ni, Ag, Zn, Antimony	Se	TSS	Total Res. chlorine	TPH 8100 1664 TF 7/14	Hexavalent Cr Tri Cr	LAB USE ONLY
1	Walker Brook (1)		7/13/17	9:00	BC	W	5			1	1	3					X	X	X	X	X	X					
2	Groundwater (2)		7/13/17	10:00 AM	BC	W	6	2		1	1	4	2				X	X					X	X	X		L33 G44

INITIAL ASESSMENT 7/13/17
LABEL VERIFICATION

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [x] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

RUSH!

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [x] Other EPA RGP

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

3 day - Email results to RPColuccio@AOL.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		1015 7/13/17	1	2	7/13/17 1636	2
3	Relinquished by Sampler:	Date Time: 7/13/17	Received By: 3 Fed Ex	Relinquished By: 4	Date Time: 7/14/17 930	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal # 642	Intact / Not intact	Preserved where Applicable / On Ice / Cooler Temp. 1.9°C 2.4°C IR

5.2 5

SGS Accutest Sample Receipt Summary

Job Number: JC46968 **Client:** _____ **Project:** _____

Date / Time Received: 7/14/2017 9:30:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

SM089-02
Rev. Date 12/1/16

JC46968: Chain of Custody
Page 2 of 2

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	Accutest Mid-Atlantic	Project #:	JC46968
Project Location:#01074,	SM Hodson, 26 Brande Court, Reading, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
JC46968-1,JC46968-2

Matrices: Groundwater/Surface Water (x) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ()

CAM Protocol (check all that apply below):

8260 VOC ( ) CAM IIA	7470/7471 Hg (X) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr (X) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC ( ) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals (X) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

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 times?	☑ Yes	☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ 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?	☑ Yes	☐ 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"?	☑ Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: 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?	☐ Yes ☐ Yes	☐ No ☐ 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)?	☑ Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑ Yes	☐ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case 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, accurate and complete.

Signature: Nancy F. Cole **Position:** **Laboratory Director**

Printed Name: **Nancy F. Cole** **Date:** **18-Jul-17**

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	SGS Accutest- Marlborough	Project #:	JC46968
Project Location:	WEBMAN: SM Hodson, 26 Brande Court, Reading, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
JC46968-1,JC46968-2

Test method: Refer to case narrative.

Matrices: Groundwater/Surface Water ( ) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other (X)

CAM Protocol (check all that apply below):

8260 VOC ( ) CAM IIA	7470/7471 Hg ( ) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr (X) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC ( ) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals ( ) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

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 times?	☐ Yes	☑ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ 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?	☑ Yes	☐ 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"?	☑ Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: 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?	☐ Yes ☐ Yes	☐ No ☐ 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)?	☑ Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑ Yes	☐ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case 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, accurate and complete.

Signature: _____ **Position:** **Laboratory Director**

Printed Name: **H. (Brad) Madadian** **Date:** **18-Jul-17**

Internal Sample Tracking Chronicle

Web Engineering Associates, Inc.

SM Hodson, 26 Brande Court, Reading, MA

Job No: JC46968

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC46968-1	Collected: 13-JUL-17 09:00 By: BC		Received: 13-JUL-17 By: DDH			
WALKER BROOK (1)						
JC46968-1	SM21 4500HB/EPA150.1	13-JUL-17 17:47	AMA			PHLAB
JC46968-1	SW846 7196A	13-JUL-17 18:10	AMA			XCR
JC46968-1	SW846 7470A	15-JUL-17 10:16	JA	15-JUL-17	JA	HG
JC46968-1	SM4500NH3 H-11LACHAT	17-JUL-17 10:49	BM	17-JUL-17	BM	AMN
JC46968-1	SW846 6010C	17-JUL-17 20:37	ND	17-JUL-17	RM	AG,AS,CD,CR,CU,FE,NI,PB,SB,SE,ZN
JC46968-1	SW846 6010/7196A M	17-JUL-17 20:37	ND			CR3
JC46968-1	SM2340 C-11	18-JUL-17 10:36	MP			HRD
JC46968-2	Collected: 13-JUL-17 10:00 By: BC		Received: 13-JUL-17 By: DDH			
GROUNDWATER (2)						
JC46968-2	SM21 4500CL F	13-JUL-17 17:18	AMA			TRC
JC46968-2	SM2540 D-11	16-JUL-17 12:53	TZW			TSS
JC46968-2	SM4500NH3 H-11LACHAT	17-JUL-17 10:51	BM	17-JUL-17	BM	AMN
JC46968-2	SM2340 C-11	18-JUL-17 10:36	MP			HRD
JC46968-2	EPA 1664A	18-JUL-17 13:00	TT	18-JUL-17	TT	PHC1664

QC Evaluation: MA MCP Limits

Job Number: JC46968
Account: Web Engineering Associates, Inc.
Project: SM Hodson, 26 Brande Court, Reading, MA
Collected: 07/13/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No Exceptions found.

* Sample used for QC is not from job JC46968

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC46968
Account: WEBMAN - Web Engineering Associates, Inc.
Project: SM Hodson, 26 Brande Court, Reading, MA

QC Batch ID: MP1924 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 07/15/17

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.058	.083	-0.021	<0.20

Associated samples MP1924: JC46968-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC46968
Account: WEBMAN - Web Engineering Associates, Inc.
Project: SM Hodson, 26 Brande Court, Reading, MA

QC Batch ID: MP1924
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 07/15/17 07/15/17

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSD Result	Spikelot HGPW3	% Rec	BSD RPD	QC Limit
Mercury	2.0	2	100.0	80-120	2.0	2	100.0	0.0	

Associated samples MP1924: JC46968-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC46968
Account: WEBMAN - Web Engineering Associates, Inc.
Project: SM Hodson, 26 Brande Court, Reading, MA

QC Batch ID: MP1932
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/17/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	7.1	33		
Antimony	6.0	1.9	4.3	1.5	<6.0
Arsenic	3.0	1.5	2.7	0.40	<3.0
Barium	200	.2	1.3		
Beryllium	1.0	.1	.4		
Bismuth	20	2.6	5		
Boron	100	1.2	13		
Cadmium	3.0	.3	.7	0.10	<3.0
Calcium	5000	3.3	29		
Chromium	10	.8	.85	0.50	<10
Cobalt	50	.5	.72		
Copper	10	.9	3.2	0.70	<10
Iron	100	2.7	32	-0.60	<100
Lead	3.0	2.2	2.6	-0.70	<3.0
Lithium	50	3.1	15		
Magnesium	5000	17	64		
Manganese	15	.1	.42		
Molybdenum	20	.4	1.4		
Nickel	10	.4	1.3	0.30	<10
Phosphorus	50	2.1	13		
Potassium	10000	47	230		
Selenium	10	2.5	6.6	-0.10	<10
Silicon	200	2.2	45		
Silver	10	1	3.1	0.40	<10
Sodium	10000	16	130		
Strontium	10	.1	.3		
Sulfur	50	4	15		
Thallium	2.0	1.9	1.6		
Tin	10	1.3	2.4		
Titanium	10	.6	1.8		
Tungsten	50	2	14		
Vanadium	50	.8	1.3		
Zinc	20	.2	4	0.20	<20

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC46968
Account: WEBMAN - Web Engineering Associates, Inc.
Project: SM Hodson, 26 Brande Court, Reading, MA

QC Batch ID: MP1932 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 07/17/17

Metal	RL	IDL	MDL	MB raw	final
Zirconium	10	.5	2		

Associated samples MP1932: JC46968-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC46968
Account: WEBMAN - Web Engineering Associates, Inc.
Project: SM Hodson, 26 Brande Court, Reading, MA

QC Batch ID: MP1932
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			07/17/17					07/17/17	
Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSD Result	Spikelot MPSPK2	% Rec	BSD RPD	QC Limit
Aluminum	anr								
Antimony	2030	2000	101.5	80-120	2060	2000	103.0	1.5	20
Arsenic	1990	2000	99.5	80-120	2030	2000	101.5	2.0	20
Barium	anr								
Beryllium									
Bismuth									
Boron									
Cadmium	2010	2000	100.5	80-120	2030	2000	101.5	1.0	20
Calcium	anr								
Chromium	2040	2000	102.0	80-120	2060	2000	103.0	1.0	20
Cobalt	anr								
Copper	1990	2000	99.5	80-120	2020	2000	101.0	1.5	20
Iron	26000	25000	104.0	80-120	26500	25000	106.0	1.9	20
Lead	2050	2000	102.5	80-120	2080	2000	104.0	1.5	20
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	2020	2000	101.0	80-120	2050	2000	102.5	1.5	20
Phosphorus									
Potassium	anr								
Selenium	1970	2000	98.5	80-120	2000	2000	100.0	1.5	20
Silicon									
Silver	258	250	103.2	80-120	259	250	103.6	0.4	20
Sodium	anr								
Strontium									
Sulfur									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	2040	2000	102.0	80-120	2070	2000	103.5	1.5	20

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC46968
Account: WEBMAN - Web Engineering Associates, Inc.
Project: SM Hodson, 26 Brande Court, Reading, MA

QC Batch ID: MP1932
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/17/17 07/17/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSD Result	Spikelot MPSPK2	% Rec	BSD RPD	QC Limit
Zirconium									

Associated samples MP1932: JC46968-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC46968
Account: WEBMAN - Web Engineering Associates, Inc.
Project: SM Hodson, 26 Brande Court, Reading, MA

QC Batch ID: MP1932
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/17/17

Metal	JC46995-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	0.00	0.00	NC	0-10
Arsenic	3.60	0.00	100.0(a)	0-10
Barium	anr			
Beryllium				
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	0.00	0.00	NC	0-10
Cobalt	anr			
Copper	6.20	11.7	88.7 (a)	0-10
Iron	100	92.3	7.7	0-10
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	1.20	2.40	100.0(a)	0-10
Phosphorus				
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	1.00	0.00	100.0(a)	0-10
Sodium	anr			
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zirconium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC46968
Account: WEBMAN - Web Engineering Associates, Inc.
Project: SM Hodson, 26 Brande Court, Reading, MA

QC Batch ID: MP1932 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 07/17/17

	JC46995-1		QC
Metal	Original SDL 1:5	%DIF	Limits

Associated samples MP1932: JC46968-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC46968
Account: WEBMAN - Web Engineering Associates, Inc.
Project: SM Hodson, 26 Brande Court, Reading, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
HEM Petroleum Hydrocarbons	GP6606/GN66998	5.0	2.1	mg/l	20.10	18.2	90.5	64-132%
Hardness, Total as CaCO3	GN66982	4.0	0.0	mg/l	80	79.6	99.5	80-120%
Hardness, Total as CaCO3	GN66982			mg/l	160	161	100.6	80-120%
Hardness, Total as CaCO3	GN66982			mg/l	160	159	99.4	80-120%
Nitrogen, Ammonia	GP6564/GN66940	0.20	0.0	mg/l	1	1.12	112.0	80-120%
Solids, Total Suspended	GN66919	4.0	0.0	mg/l				

Associated Samples:
Batch GP6564: JC46968-1, JC46968-2
Batch GP6606: JC46968-2
Batch GN66919: JC46968-2
Batch GN66982: JC46968-1, JC46968-2
(*) Outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(SGS Accutest New England)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

CHAIN OF CUSTODY

SGS ACCUTEST

SGS Accutest of New England
50 D'Angelo Drive/495 Technology Center West, Building One Marlborough, MA 01752
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE ___ OF ___

FED-EX Tracking # 727375164289 | Bottle Order Control #
SGS Accutest Quote # | SGS Accutest Job # JC46968

Client / Reporting Information

Company Name: Web Engineering
Street Address: 111 Summer St
City: Scituate State: MA Zip: 02066
Project Contact: Bob Coluccio E-mail: RPCOLUCCIO@AOL.COM
Phone #: 781-844-8323 Fax #:
Sampler(s) Name(s): Bob Coluccio Phone #: 781-844-8323

Project Information

Project Name: SM Hodson
Street: 26 Brande Court
City: Reading, MA
Project#: .com
Client PO#: SM Hodson
Project Manager: Bob Coluccio

Billing Information (If different from Report to)

Company Name:
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Time	Sampled by	Matrix	# of bottles	Preserved Bottles HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	Hardness	Ammonia	pH	Sb, As, Cd, Cr, Cu, Fe, Pb	Hg, Ni, Ag, Zn, Antimony	Se	TSS	Total Res. Chlorine	TPH 8100 1664	Hexavalent Cr Tri Cr	LAB USE ONLY
1	Walker Brook (1)		7/13/17	9:00	BC	W	5			1	1	3					X	X	X	X	X	X				X	
2	Groundwater (2)		7/13/17	10:00 AM	BC	W	6	3		1	1	1					X	X					X	X	X		L37 G44

INITIAL ASSESSMENT 7/14/17
LABEL VERIFICATION

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ Std. 5 Business Days (By Contract only)
- ☐ 5 Day *RUSH*
- ☒ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

RUSH!

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☐ CT RCP
- ☐ MA MCP
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☒ Other EPA RGP

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

3 day - Email results to RPCOLUCCIO@AOL.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		7/13/17 10:15	1	2	7/13/17 1636	2
3	Relinquished by Sampler:	Date Time: 7/13/17	Received By: 3 FedEx	Relinquished By: 4	Date Time: 7/14/17 930	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal # 642 Intact / Not Intact	Preserved where applicable	On Ice / Cooler Temp. 1.9°C 2.4°C IR

8.1

8

SGS Accutest NE Sample Receipt Summary

Job Number: JC46968 **Client:** WEB ENGINEERING **Project:** SM HODSON

Date / Time Received: 7/13/2017 4:36:00 PM **Delivery Method:** SGS Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.9/1.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☑	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments NOTE: pH, TRC, and HexCr analyzed at ALNE.

Internal Sample Tracking Chronicle

SGS Accutest New Jersey

Job No: JC46968

WEBMAN: SM Hodson, 26 Brande Court, Reading, MA
Project No: WEBMAN74964

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC46968-1	Collected: 13-JUL-17 09:00 By: BC		Received: 13-JUL-17 By: TF			
WALKER BROOK (1)						
JC46968-1	SM21 4500HB/EPA150.1	13-JUL-17 17:47	VY			PHLAB
JC46968-1	SW846 7196A	13-JUL-17 18:10	VY			XCR
JC46968-2	Collected: 13-JUL-17 10:00 By: BC		Received: 13-JUL-17 By: TF			
GROUNDWATER (2)						
JC46968-2	SM21 4500CL F	13-JUL-17 17:18	VY			TRC

QC Evaluation: MA MCP Limits

Job Number: JC46968
Account: SGS Accutest New Jersey
Project: WEBMAN: SM Hodson, 26 Brande Court, Reading, MA
Collected: 07/13/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No Exceptions found.

* Sample used for QC is not from job JC46968

General Chemistry

QC Data Summaries

(SGS Accutest New England)

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC46968
Account: ALNJ - SGS Accutest New Jersey
Project: WEBMAN: SM Hodson, 26 Brande Court, Reading, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN55962	0.010	0.0	mg/l	.10	0.10	100.0	85-115%
Total Residual Chlorine	GN55961	0.050	0.0	mg/l	1.0	1.1	110.0	80-120%

Associated Samples:
Batch GN55961: JC46968-2
Batch GN55962: JC46968-1
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC46968
Account: ALNJ - SGS Accutest New Jersey
Project: WEBMAN: SM Hodson, 26 Brande Court, Reading, MA

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Chromium, Hexavalent	GN55962	mg/l	.10	0.10	0.0	20%

Associated Samples:
Batch GN55962: JC46968-1
(*) Outside of QC limits

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

Web Engineering Associates, Inc.

SM Hodson Company, 26 Brande Court, Reading, MA

17-E-021

SGS Accutest Job Number: MC50480

Sampling Date: 05/24/17

Report to:

Web Engineering Associates
P.O. Box 710
North Scituate, MA 02061
sesolutions1@comcast.net

ATTN: Andrew Brolowski

Total number of pages in report: 65

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Daniel Axelrod 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NJ (MA926) PA (6801121) LA (AI171119) ND (R-188) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Sample Summary

Web Engineering Associates, Inc.

Job No: MC50480

SM Hodson Company, 26 Brande Court, Reading, MA
Project No: 17-E-021

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC50480-1	05/24/17	14:30	AWB	05/25/17	AQ	Ground Water	MW-1

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Web Engineering Associates, Inc. **Job No** MC50480

Site: SM Hodson Company, 26 Brande Court, Reading, MA **Report Date** 6/2/2017 4:32:21 PM

1 Sample was collected on 05/24/2017 and were received at SGS Accutest New England on 05/25/2017 properly preserved, at 1.2 Deg. C and intact. These Samples received a job number of MC50480. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSL4431

- MSL4431-BS for 1,4-Dioxane: Outside MCP control limits (biased low).
- Quadratic regression is employed for initial calibration standard for 1,2,4-trichlorobenzene, 1,2,3-trichlorobenzene.
- The response factor (RF) for Acetone,2-Butanone at low point and average point in the initial calibration MSL4418-ICC4418 are less than the required RF of 0.1 as noted in Table 4 of SW846 8260C. The average and individual response factors (RF) for 1,4-Dioxane are less than 0.05.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Continuing calibration verification standard MSL4431-CC4418 for forbromomethane, chloroethane, ethyl ether, 2,2-dichloropropane exceed 20% difference (biased high). Associated samples are non-detect for this compound.

Volatiles by GC By Method MADEP VPH REV 1.1

Matrix: AQ **Batch ID:** GBH2536

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** N:MP1128

- Analysis performed at SGS Accutest, Dayton, NJ.

Metals By Method SW846 7470A

Matrix: AQ **Batch ID:** N:MP1183

- Mercury: Analysis performed at SGS Accutest, Dayton, NJ.

Wet Chemistry By Method EPA 1664A

Matrix: AQ **Batch ID:** N:GP5677

- MC50480-1 for HEM Oil and Grease: Analysis performed at SGS Accutest, Dayton, NJ.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** N:GP5652

- MC50480-1 for Chloride: Analysis performed at SGS Accutest, Dayton, NJ.

Wet Chemistry By Method SM21 4500HB/EPA150.1

Matrix:	AQ	Batch ID:	GN55890

- MC50480-1 for pH: Analysis performed past the required 15 minutes of collection time/holding time.

Wet Chemistry By Method SW846 7196A

Matrix:	AQ	Batch ID:	GN55888

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS-Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percent solids.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50480).

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: SGS Accutest New England **Job No** MC50480

Site: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA **Report Date** 6/1/2017 4:00:41 PM

On 05/26/2017, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 4.1 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of MC50480 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP1128

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC44151-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Cadmium, Chromium, Copper, Nickel are outside control limits for sample MP1128-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP1128-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A

Matrix: AQ **Batch ID:** MP1183

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 1664A

Matrix: AQ **Batch ID:** GP5677

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP5652

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS Accutest is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS Accutest indicated via signature on the report cover

Summary of Hits

Job Number: MC50480
Account: Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA
Collected: 05/24/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC50480-1	**MW-1**					
Iron [a]		5170	100		ug/l	SW846 6010C
Lead [a]		9.0	3.0		ug/l	SW846 6010C
Zinc [a]		24.3	20		ug/l	SW846 6010C
Chloride [a]		331	2.0		mg/l	EPA 300/SW846 9056A
pH [b]		8.0			su	SM21 4500HB/EPA150.1

(a) Analysis performed at SGS Accutest, Dayton, NJ.
(b) Analysis performed past the required 15 minutes of collection time/holding time.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	MC50480-1	**Date Sampled:**	05/24/17
Matrix:	AQ - Ground Water	**Date Received:**	05/25/17
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SM Hodson Company, 26 Brande Court, Reading, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L103342.D	1	05/27/17 01:54	VY	n/a	n/a	MSL4431
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	MC50480-1	**Date Sampled:**	05/24/17
Matrix:	AQ - Ground Water	**Date Received:**	05/25/17
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SM Hodson Company, 26 Brande Court, Reading, MA		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	50	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	MC50480-1	**Date Sampled:**	05/24/17
Matrix:	AQ - Ground Water	**Date Received:**	05/25/17
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SM Hodson Company, 26 Brande Court, Reading, MA		

VOA MCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		76-129%
2037-26-5	Toluene-D8	99%		83-114%
460-00-4	4-Bromofluorobenzene	123%		75-124%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	MC50480-1	**Date Sampled:**	05/24/17
Matrix:	AQ - Ground Water	**Date Received:**	05/25/17
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	SM Hodson Company, 26 Brande Court, Reading, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BH42150.D	1	05/29/17 23:21	AF	n/a	n/a	GBH2536
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

MA-VPH List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	3.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	
	C5- C8 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	ug/l	
	C5- C8 Aliphatics	ND	50	ug/l	
	C9- C12 Aliphatics	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	99%		70-130%
	2,3,4-Trifluorotoluene	96%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	MC50480-1	**Date Sampled:**	05/24/17
Matrix:	AQ - Ground Water	**Date Received:**	05/25/17
		Percent Solids:	n/a
Project:	SM Hodson Company, 26 Brande Court, Reading, MA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	< 6.0	6.0	ug/l	1	05/30/17	05/30/17	ANJ	SW846 6010C [1]	SW846 3010A [3]
Arsenic [a]	< 3.0	3.0	ug/l	1	05/30/17	05/30/17	ANJ	SW846 6010C [1]	SW846 3010A [3]
Cadmium [a]	< 3.0	3.0	ug/l	1	05/30/17	05/30/17	ANJ	SW846 6010C [1]	SW846 3010A [3]
Chromium [a]	< 10	10	ug/l	1	05/30/17	05/30/17	ANJ	SW846 6010C [1]	SW846 3010A [3]
Copper [a]	< 10	10	ug/l	1	05/30/17	05/30/17	ANJ	SW846 6010C [1]	SW846 3010A [3]
Iron [a]	5170	100	ug/l	1	05/30/17	05/30/17	ANJ	SW846 6010C [1]	SW846 3010A [3]
Lead [a]	9.0	3.0	ug/l	1	05/30/17	05/30/17	ANJ	SW846 6010C [1]	SW846 3010A [3]
Mercury [a]	< 0.20	0.20	ug/l	1	06/01/17	06/01/17	ANJ	SW846 7470A [2]	SW846 7470A [4]
Nickel [a]	< 10	10	ug/l	1	05/30/17	05/30/17	ANJ	SW846 6010C [1]	SW846 3010A [3]
Silver [a]	< 10	10	ug/l	1	05/30/17	05/30/17	ANJ	SW846 6010C [1]	SW846 3010A [3]
Zinc [a]	24.3	20	ug/l	1	05/30/17	05/30/17	ANJ	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: N:MA42129
(2) Instrument QC Batch: N:MA42143
(3) Prep QC Batch: N:MP1128
(4) Prep QC Batch: N:MP1183

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	MC50480-1	**Date Sampled:**	05/24/17
Matrix:	AQ - Ground Water	**Date Received:**	05/25/17
		Percent Solids:	n/a
Project:	SM Hodson Company, 26 Brande Court, Reading, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride [a]	331	2.0	mg/l	1	05/28/17 16:16	ANJ	EPA 300/SW846 9056A
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	05/25/17 11:10	EAL	SW846 7196A
HEM Oil and Grease [a]	< 5.3	5.3	mg/l	1	05/30/17 22:00	ANJ	EPA 1664A
pH [b]	8.0		su	1	05/26/17 12:04	EAL	SM21 4500HB/EPA150.1

(a) Analysis performed at SGS Accutest, Dayton, NJ.
(b) Analysis performed past the required 15 minutes of collection time/holding time.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

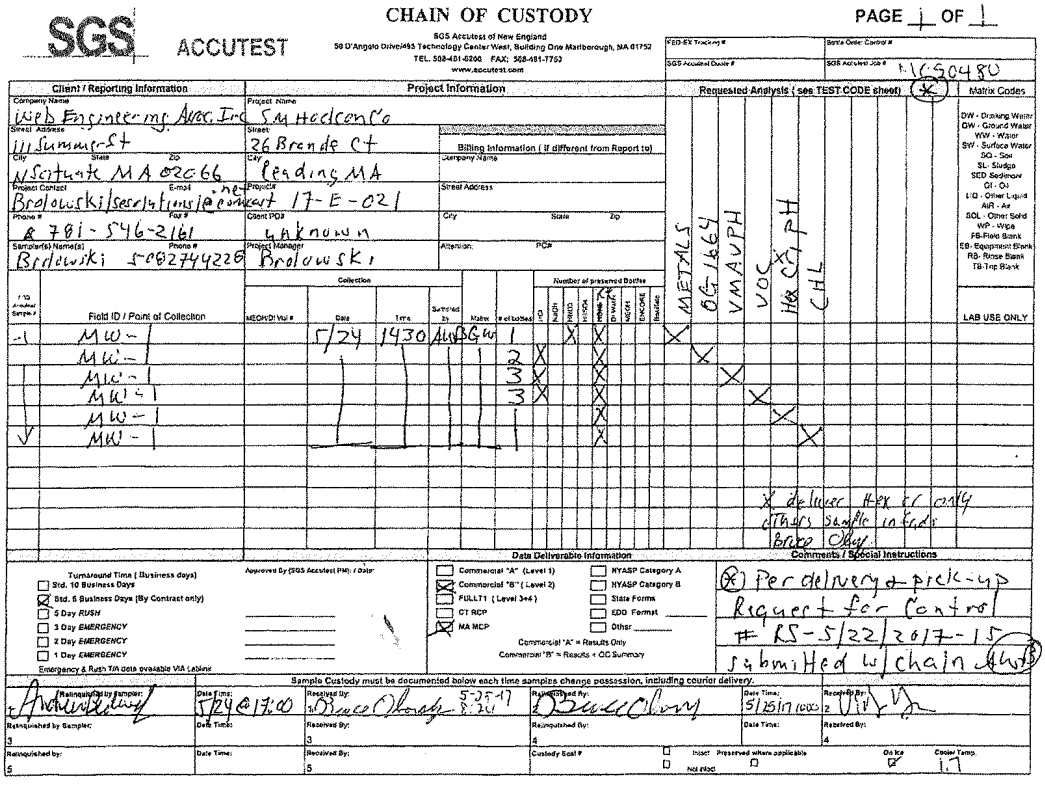
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- MCP Form (SGS Accutest New Jersey)
- VPH Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

Parameter Certifications

Job Number: MC50480
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

The following parameters included in this report are certified by the state of MA.

Parameter	CAS#	Method	Mat	Certification Status
pH		**SM21 4500HB/EPA150.1**	AQ	Accutest is certified for this parameter.



SGS ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
58 D'Angelo Drive/495 Technology Center West, Building One Marlborough, MA 01752
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

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FED-EX Tracking #
Bottle Order Control #
SGS Accutest Quote #
SGS Accutest Job # MC50480

Client / Reporting Information	Project Information	Requested Analysis (see TEST CODE sheet) (*)	Matrix Codes
Company Name: Web Engineering Assoc. Inc	Project Name: SM Hodson Co		DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB- Equipment Blank RB- Rinse Blank TB-Trip Blank
Street Address: 111 Summer St	Street: 26 Brande Ct	Billing Information (if different from Report to)	
City: N Scituate State: MA Zip: 02066	City: Reading MA	Company Name	
Project Contact: Brolowski/sesolutions@ne-comcast E-mail	Project #: 17-E-021	Street Address	
Phone #: 781-546-2161 Fax #	Client PO#: unknown	City State Zip	
Sampler(s) Name(s): Brolowski Phone #: 5082744228	Project Manager: Brolowski	Attention: PO#	

Field ID / Point of Collection	MEOH/DI Vol #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NaOH	DI Water	MEOH	ENCORE	Bacteria	METALS	OG-1664	VMAVPH	VOC	Hex Cr PH	CHL	LAB USE ONLY
MW-1		5/24	1430	AWB	GW	1			X		X					X						
MW-1						2	X				X						X					
MW-1						3	X				X							X				
MW-1						3	X				X								X			
MW-1											X									X		
MW-1											X										X	

X deliver Hex Cr only
others sample in Feds
Bruce Olney

Turnaround Time (Business days)
- [ ] Std. 10 Business Days
- [x] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM) / Date

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [x] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions
(*) Per delivery & pick-up Request for Control # RS-5/22/2017-15 submitted w/ chain AWB

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	5/24 @ 17:00	2 Bruce Olney 5-25-17 8:24	2 [signature]	5/25/17 1000	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not intact / Preserved where applicable	On Ice / Cooler Temp. 1.7

MC50480: Chain of Custody
Page 1 of 5

SGS ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive/495 Technology Center West, Building One Marlborough, MA 01752
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control #
SGS Accutest Quote #	SGS Accutest Job # MC50480

Client / Reporting Information

Company Name: Web Engineering Assoc. Inc
Street Address: 111 Summer St
City / State / Zip: N Scituate MA 02066
Project Contact / E-mail: Brolowski/sesolutions1@comcast.net
Phone # / Fax #: 781-546-2161
Sampler(s) Name(s) / Phone #: Brolowski 5082744228

Project Information

Project Name: SM Hodson Co
Street: 26 Brande Ct
City: Reading MA
Project#: 17-E-021
Client PO#: unknown
Project Manager: Brolowski

Billing Information (If different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet) (*)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	~~NONE~~ RCP	DI Water	MEOH	ENCORE	Bisulfate	METALS	OG 1664	VMAVPH	VOC	Hex Cr, pH	CHL	LAB USE ONLY
-1	MW-1		5/24	1430	AWB	GW	1			X		X					X						
	MW-1						2	X				X						X					
	MW-1						3	X				X							X				
	MW-1						3	X				X								X			
	MW-1						1					X									X		
	MW-1						1					X										X	

X deliver Hex cr only
others sample in frids
Bruce Olney

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [x] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [x] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

(*) Per delivery & pick-up Request for Control # RS-5/22/2017-15 submitted w/chain AWB

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	5/24 @ 17:00	1 Bruce Olney 5-25-17 8:24	2	5/25/17 1000	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☑ Cooler Temp. 1.7

5.2

5

MC50480: Chain of Custody
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SGS ACCUTEST

CHAIN OF CUSTODY

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50 D'Angelo Drive/495 Technology Center West, Building One Marlborough, MA 01752
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www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control #
SGS Accutest Quote #	SGS Accutest Job # MC50480

Client / Reporting Information

Company Name: Web Engineering Assoc. Inc
Street Address: 111 Summer St
City / State / Zip: N Scituate MA 02066
Project Contact / E-mail: Brolowski/sesolutions1@comcast.net
Phone #: 781-546-2161 Fax #:
Sampler(s) Name(s): Brolowski Phone #: 5082744228

Project Information

Project Name: SM Hodson Co
Street: 26 Brande Ct
City: Reading MA
Project#: 17-E-021
Client PO#: unknown
Project Manager: Brolowski

Billing Information (If different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet) (*)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	~~NONE~~ Ice	DI Water	MEOH	ENCORE	Bisulfate	METALS	OG 1664	VMAVPH	VOC	Hex Cr, pH	CHL	LAB USE ONLY
	MW-1		5/24	1430	AWB	GW	1			X		X					X						
	MW-1						2	X				X						X					
	MW-1						3	X				X							X				
	MW-1						3	X				X								X			
	MW-1						1					X									X		
	MW-1						1					X										X	
																							2E4

INITIAL ASESSMENT CJS
LABEL VERIFICATION CJS

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☒ Std. 5 Business Days (By Contract only)
- ☐ 5 Day *RUSH*
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☒ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☐ CT RCP
- ☒ MA MCP
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☐ Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

(*) Per delivery & pick-up Request for Control # RS-5/22/2017-15 submitted w/chain AWB

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	5/24 @ 17:00	1	2	5-25-17 1800	2 [signature]
3 [signature]	5-25-17 1945	3 [signature]	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact Preserved where applicable ☐ On Ice ☒ Cooler Temp. 1.7°C

MC50480: Chain of Custody
Page 3 of 5

SGS Accutest Sample Receipt Summary

Job Number: MC50480 **Client:** WEB ENGINEERING **Project:** SM HODSON CO

Date / Time Received: 5/25/2017 8:24:00 AM **Delivery Method:** Client **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.7/1.2); #2: (1.7/1.2);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☐	☑	3. COC Present:	☑	☐
2. Custody Seals Intact:	☐	☑	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IRGUN1	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☐	☑	
2. Trip Blank listed on COC:	☐	☑	
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample rec'd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume rec'd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

MW-1 HexCr volume was dropped off at SGS Accutest by client 5/25/17 @ 10:00. Noted on COC by client. The remaining volume for MW-1 was received by SGS Courier 5/25/17 @ 18:00.

NOTE: Missing client relinquish signature on both COCs.

Sample Receipt Summary - Problem Resolution

Job Number: MC50480

CSR: Jeremy Vienneau **Response Date** 5/31/2017

Response: Sent emailt to client

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	SGS Accutest- Marlborough	Project #:	MC50480
Project Location:	SM Hodson Company, 26 Brande Court, Reading, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50480-1

Matrices: Groundwater/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC (X) CAM IIA	7470/7471 Hg (X) CAM III B	MassDEP VPH (X) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr (X) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC ( ) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals (X) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

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 times?	☑ Yes	☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ 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?	☑ Yes	☐ 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"?	☑ Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: 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).	☑ Yes	☐ No
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes	☐ 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)?	☑ Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☐ Yes	☑ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case 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, accurate and complete.

Signature: _____ **Position:** **Laboratory Director**

Printed Name: **H. (Brad) Madadian** **Date:** **02-Jun-17**

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	Accutest Mid-Atlantic	Project #:	MC50480
Project Location:#01074,	WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50480-1

Matrices: Groundwater/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC ( ) CAM IIA	7470/7471 Hg (X) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr ( ) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC ( ) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals (X) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

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 times?	☑ Yes	☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ 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?	☑ Yes	☐ 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"?	☑ Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: 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?	☐ Yes ☐ Yes	☐ No ☐ 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)?	☑ Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑ Yes	☐ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case 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, accurate and complete.

Signature: Nancy F. Cole **Position:** Laboratory Director

Printed Name: Nancy F. Cole **Date:** 02-Jun-17

MADEP VPH FORM

Matrix	**Aqueous** ☑	**Soil** ☐	**Sediment** ☐	**Other** ☐			
Containers	**Satisfactory** ☑	**Broken** ☐	**Leaking** ☐				
Aqueous Preservatives	**N/A** ☐	**pH <= 2** ☑	**pH > 2** ☐				
Temperature	**Received on Ice** ☐	**Received at 4 Deg. C** ☐	**Other** ☑	Rec'd at 1.2 Deg. C			
Methanol	**N/A**						

Method for Ranges: MADEP VPH REV 1.1
Method for Target Analytes: MADEP VPH REV 1.1
VPH Surrogate Standards
PID:
FID:

Client ID: MW-1 **Lab ID:** MC50480-1
Date Collected: 5/24/2017 **Date Received:** 5/25/2017

Date Extracted:	First Date Run:	Last Date Run:
N/A	5/29/2017	N/A
% Solids:	**Low Dilution:**	**High Dilution:**
N/A	1	N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	ND [A]	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND [A]	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	ND [A]	50	
Target Analytes						
Ethylbenzene	100-41-4	C9-C12	ug/l	ND	2	
Toluene	108-88-3	C5-C8	ug/l	ND	2	
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	ND	1	
Benzene	71-43-2	C5-C8	ug/l	ND	1	
Naphthalene	91-20-3	N/A	ug/l	ND	3	
o-Xylene	95-47-6	C9-C12	ug/l	ND	2	
m,p-Xylene		C9-C12	ug/l	ND	2	
Adjusted Ranges						
C5- C8 Aliphatics		N/A	ug/l	ND [B]	50	
C9- C12 Aliphatics		N/A	ug/l	ND [C]	50	

Surrogate Recoveries			Acceptance Range
FID:2,3,4-Trifluorotoluene	%	96	70-130 %
PID:2,3,4-Trifluorotoluene	%	99	70-130 %

Footnotes

A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

B Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

C Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C9-C12 aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C9-C10 Aromatic Hydrocarbons.

Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the VPH Method followed? ☑ Yes ☐ No- Details Attatched
Were all performance/acceptance standards for required QA/QC procedures achieved? ☑ Yes ☐ No- Details Attatched
Were any significant modifications made to the VPH method, as specified in Sect. 11.3? ☑ No ☐ Yes- Details Attatched

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

Signature _____ **Postition** Laboratory Director

Printed Name H. (Brad) Madadian **Date** 6/2/2017

Internal Sample Tracking Chronicle

Web Engineering Associates, Inc.

Job No: MC50480

SM Hodson Company, 26 Brande Court, Reading, MA
Project No: 17-E-021

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50480-1 MW-1	Collected: 24-MAY-17 14:30 By: AWB		Received: 25-MAY-17 By: TF			
MC50480-1	SW846 7196A	25-MAY-17 11:10	EAL			XCR
MC50480-1	SM21 4500HB/EPA150.2	26-MAY-17 12:04	EAL			PH
MC50480-1	SW846 8260C	27-MAY-17 01:54	VY			V8260MCP
MC50480-1	EPA 300/SW846 9056A	28-MAY-17 16:16	ANJ	28-MAY-17		CHL
MC50480-1	MADEP VPH REV 1.1	29-MAY-17 23:21	AF			VMAVPH
MC50480-1	SW846 6010C	30-MAY-17 19:28	ANJ	30-MAY-17	ANJ	AG,AS,CD,CR,CU,FE,NI,PB,SB,ZN
MC50480-1	EPA 1664A	30-MAY-17 22:00	ANJ	30-MAY-17	ANJ	OG1664
MC50480-1	SW846 7470A	01-JUN-17 12:42	ANJ	01-JUN-17	ANJ	HG

QC Evaluation: MA MCP Limits

Job Number: MC50480
Account: Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA
Collected: 05/24/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MSL4431	SW846 8260C						
MSL4431-BS	67-64-1	Acetone	BSP	REC	106	%	70-130
MSL4431-BS	71-43-2	Benzene	BSP	REC	103	%	70-130
MSL4431-BS	108-86-1	Bromobenzene	BSP	REC	105	%	70-130
MSL4431-BS	74-97-5	Bromochloromethane	BSP	REC	107	%	70-130
MSL4431-BS	75-27-4	Bromodichloromethane	BSP	REC	106	%	70-130
MSL4431-BS	75-25-2	Bromoform	BSP	REC	106	%	70-130
MSL4431-BS	74-83-9	Bromomethane	BSP	REC	118	%	70-130
MSL4431-BS	78-93-3	2-Butanone (MEK)	BSP	REC	106	%	70-130
MSL4431-BS	104-51-8	n-Butylbenzene	BSP	REC	117	%	70-130
MSL4431-BS	135-98-8	sec-Butylbenzene	BSP	REC	107	%	70-130
MSL4431-BS	98-06-6	tert-Butylbenzene	BSP	REC	107	%	70-130
MSL4431-BS	75-15-0	Carbon disulfide	BSP	REC	103	%	70-130
MSL4431-BS	56-23-5	Carbon tetrachloride	BSP	REC	107	%	70-130
MSL4431-BS	108-90-7	Chlorobenzene	BSP	REC	102	%	70-130
MSL4431-BS	75-00-3	Chloroethane	BSP	REC	129	%	70-130
MSL4431-BS	67-66-3	Chloroform	BSP	REC	110	%	70-130
MSL4431-BS	74-87-3	Chloromethane	BSP	REC	95	%	70-130
MSL4431-BS	95-49-8	o-Chlorotoluene	BSP	REC	107	%	70-130
MSL4431-BS	106-43-4	p-Chlorotoluene	BSP	REC	106	%	70-130
MSL4431-BS	108-20-3	Di-Isopropyl ether	BSP	REC	114	%	70-130
MSL4431-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	103	%	70-130
MSL4431-BS	124-48-1	Dibromochloromethane	BSP	REC	106	%	70-130
MSL4431-BS	106-93-4	1,2-Dibromoethane	BSP	REC	103	%	70-130
MSL4431-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	107	%	70-130
MSL4431-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	108	%	70-130
MSL4431-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	107	%	70-130
MSL4431-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	81	%	70-130
MSL4431-BS	75-34-3	1,1-Dichloroethane	BSP	REC	109	%	70-130
MSL4431-BS	107-06-2	1,2-Dichloroethane	BSP	REC	110	%	70-130
MSL4431-BS	75-35-4	1,1-Dichloroethene	BSP	REC	96	%	70-130
MSL4431-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	106	%	70-130
MSL4431-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	106	%	70-130
MSL4431-BS	78-87-5	1,2-Dichloropropane	BSP	REC	107	%	70-130
MSL4431-BS	142-28-9	1,3-Dichloropropane	BSP	REC	105	%	70-130
MSL4431-BS	594-20-7	2,2-Dichloropropane	BSP	REC	117	%	70-130
MSL4431-BS	563-58-6	1,1-Dichloropropene	BSP	REC	105	%	70-130
MSL4431-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	102	%	70-130
MSL4431-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	101	%	70-130
MSL4431-BS	123-91-1	1,4-Dioxane	BSP	REC	62	%	70-130
MSL4431-BS	60-29-7	Ethyl Ether	BSP	REC	124	%	70-130
MSL4431-BS	100-41-4	Ethylbenzene	BSP	REC	102	%	70-130
MSL4431-BS	87-68-3	Hexachlorobutadiene	BSP	REC	108	%	70-130

* Sample used for QC is not from job MC50480

QC Evaluation: MA MCP Limits

Job Number: MC50480
Account: Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA
Collected: 05/24/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MSL4431-BS	591-78-6	2-Hexanone	BSP	REC	95	%	70-130
MSL4431-BS	98-82-8	Isopropylbenzene	BSP	REC	106	%	70-130
MSL4431-BS	99-87-6	p-Isopropyltoluene	BSP	REC	109	%	70-130
MSL4431-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	104	%	70-130
MSL4431-BS	108-10-1	4-Methyl-2-pentanone (MIBK)	BSP	REC	98	%	70-130
MSL4431-BS	74-95-3	Methylene bromide	BSP	REC	107	%	70-130
MSL4431-BS	75-09-2	Methylene chloride	BSP	REC	103	%	70-130
MSL4431-BS	91-20-3	Naphthalene	BSP	REC	84	%	70-130
MSL4431-BS	103-65-1	n-Propylbenzene	BSP	REC	108	%	70-130
MSL4431-BS	100-42-5	Styrene	BSP	REC	106	%	70-130
MSL4431-BS	994-05-8	tert-Amyl Methyl Ether	BSP	REC	104	%	70-130
MSL4431-BS	637-92-3	tert-Butyl Ethyl Ether	BSP	REC	109	%	70-130
MSL4431-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	106	%	70-130
MSL4431-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	102	%	70-130
MSL4431-BS	127-18-4	Tetrachloroethene	BSP	REC	102	%	70-130
MSL4431-BS	109-99-9	Tetrahydrofuran	BSP	REC	104	%	70-130
MSL4431-BS	108-88-3	Toluene	BSP	REC	102	%	70-130
MSL4431-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	89	%	70-130
MSL4431-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	95	%	70-130
MSL4431-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	110	%	70-130
MSL4431-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	103	%	70-130
MSL4431-BS	79-01-6	Trichloroethene	BSP	REC	103	%	70-130
MSL4431-BS	75-69-4	Trichlorofluoromethane	BSP	REC	109	%	70-130
MSL4431-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	101	%	70-130
MSL4431-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	109	%	70-130
MSL4431-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	107	%	70-130
MSL4431-BS	75-01-4	Vinyl chloride	BSP	REC	99	%	70-130
MSL4431-BS		m,p-Xylene	BSP	REC	103	%	70-130
MSL4431-BS	95-47-6	o-Xylene	BSP	REC	104	%	70-130
MSL4431-BS	1330-20-7	Xylene (total)	BSP	REC	103	%	70-130
MSL4431-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	104	%	70-130
MSL4431-BS	2037-26-5	Toluene-D8	BSP	SURR	98	%	70-130
MSL4431-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	98	%	70-130
MSL4431-BSD	67-64-1	Acetone	BSD	REC	101	%	70-130
MSL4431-BSD	67-64-1	Acetone	BSD	RPD	5	%	20
MSL4431-BSD	71-43-2	Benzene	BSD	REC	101	%	70-130
MSL4431-BSD	71-43-2	Benzene	BSD	RPD	2	%	20
MSL4431-BSD	108-86-1	Bromobenzene	BSD	REC	102	%	70-130
MSL4431-BSD	108-86-1	Bromobenzene	BSD	RPD	3	%	20
MSL4431-BSD	74-97-5	Bromochloromethane	BSD	REC	107	%	70-130
MSL4431-BSD	74-97-5	Bromochloromethane	BSD	RPD	0	%	20
MSL4431-BSD	75-27-4	Bromodichloromethane	BSD	REC	105	%	70-130
MSL4431-BSD	75-27-4	Bromodichloromethane	BSD	RPD	1	%	20
MSL4431-BSD	75-25-2	Bromoform	BSD	REC	103	%	70-130
MSL4431-BSD	75-25-2	Bromoform	BSD	RPD	2	%	20

* Sample used for QC is not from job MC50480

QC Evaluation: MA MCP Limits

Job Number: MC50480
Account: Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA
Collected: 05/24/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MSL4431-BSD	74-83-9	Bromomethane	BSD	REC	110	%	70-130
MSL4431-BSD	74-83-9	Bromomethane	BSD	RPD	7	%	20
MSL4431-BSD	78-93-3	2-Butanone (MEK)	BSD	REC	108	%	70-130
MSL4431-BSD	78-93-3	2-Butanone (MEK)	BSD	RPD	3	%	20
MSL4431-BSD	104-51-8	n-Butylbenzene	BSD	REC	108	%	70-130
MSL4431-BSD	104-51-8	n-Butylbenzene	BSD	RPD	8	%	20
MSL4431-BSD	135-98-8	sec-Butylbenzene	BSD	REC	100	%	70-130
MSL4431-BSD	135-98-8	sec-Butylbenzene	BSD	RPD	7	%	20
MSL4431-BSD	98-06-6	tert-Butylbenzene	BSD	REC	99	%	70-130
MSL4431-BSD	98-06-6	tert-Butylbenzene	BSD	RPD	8	%	20
MSL4431-BSD	75-15-0	Carbon disulfide	BSD	REC	96	%	70-130
MSL4431-BSD	75-15-0	Carbon disulfide	BSD	RPD	7	%	20
MSL4431-BSD	56-23-5	Carbon tetrachloride	BSD	REC	101	%	70-130
MSL4431-BSD	56-23-5	Carbon tetrachloride	BSD	RPD	6	%	20
MSL4431-BSD	108-90-7	Chlorobenzene	BSD	REC	99	%	70-130
MSL4431-BSD	108-90-7	Chlorobenzene	BSD	RPD	3	%	20
MSL4431-BSD	75-00-3	Chloroethane	BSD	REC	121	%	70-130
MSL4431-BSD	75-00-3	Chloroethane	BSD	RPD	6	%	20
MSL4431-BSD	67-66-3	Chloroform	BSD	REC	105	%	70-130
MSL4431-BSD	67-66-3	Chloroform	BSD	RPD	4	%	20
MSL4431-BSD	74-87-3	Chloromethane	BSD	REC	89	%	70-130
MSL4431-BSD	74-87-3	Chloromethane	BSD	RPD	6	%	20
MSL4431-BSD	95-49-8	o-Chlorotoluene	BSD	REC	103	%	70-130
MSL4431-BSD	95-49-8	o-Chlorotoluene	BSD	RPD	3	%	20
MSL4431-BSD	106-43-4	p-Chlorotoluene	BSD	REC	104	%	70-130
MSL4431-BSD	106-43-4	p-Chlorotoluene	BSD	RPD	2	%	20
MSL4431-BSD	108-20-3	Di-Isopropyl ether	BSD	REC	111	%	70-130
MSL4431-BSD	108-20-3	Di-Isopropyl ether	BSD	RPD	3	%	20
MSL4431-BSD	96-12-8	1,2-Dibromo-3-chloropropane	BSD	REC	99	%	70-130
MSL4431-BSD	96-12-8	1,2-Dibromo-3-chloropropane	BSD	RPD	4	%	20
MSL4431-BSD	124-48-1	Dibromochloromethane	BSD	REC	102	%	70-130
MSL4431-BSD	124-48-1	Dibromochloromethane	BSD	RPD	4	%	20
MSL4431-BSD	106-93-4	1,2-Dibromoethane	BSD	REC	101	%	70-130
MSL4431-BSD	106-93-4	1,2-Dibromoethane	BSD	RPD	2	%	20
MSL4431-BSD	95-50-1	1,2-Dichlorobenzene	BSD	REC	105	%	70-130
MSL4431-BSD	95-50-1	1,2-Dichlorobenzene	BSD	RPD	2	%	20
MSL4431-BSD	541-73-1	1,3-Dichlorobenzene	BSD	REC	104	%	70-130
MSL4431-BSD	541-73-1	1,3-Dichlorobenzene	BSD	RPD	3	%	20
MSL4431-BSD	106-46-7	1,4-Dichlorobenzene	BSD	REC	104	%	70-130
MSL4431-BSD	106-46-7	1,4-Dichlorobenzene	BSD	RPD	3	%	20
MSL4431-BSD	75-71-8	Dichlorodifluoromethane	BSD	REC	75	%	70-130
MSL4431-BSD	75-71-8	Dichlorodifluoromethane	BSD	RPD	8	%	20
MSL4431-BSD	75-34-3	1,1-Dichloroethane	BSD	REC	105	%	70-130
MSL4431-BSD	75-34-3	1,1-Dichloroethane	BSD	RPD	4	%	20
MSL4431-BSD	107-06-2	1,2-Dichloroethane	BSD	REC	109	%	70-130

* Sample used for QC is not from job MC50480

QC Evaluation: MA MCP Limits

Job Number: MC50480
Account: Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA
Collected: 05/24/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MSL4431-BSD	107-06-2	1,2-Dichloroethane	BSD	RPD	1	%	20
MSL4431-BSD	75-35-4	1,1-Dichloroethene	BSD	REC	90	%	70-130
MSL4431-BSD	75-35-4	1,1-Dichloroethene	BSD	RPD	6	%	20
MSL4431-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	REC	102	%	70-130
MSL4431-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	RPD	4	%	20
MSL4431-BSD	156-60-5	trans-1,2-Dichloroethene	BSD	REC	100	%	70-130
MSL4431-BSD	156-60-5	trans-1,2-Dichloroethene	BSD	RPD	5	%	20
MSL4431-BSD	78-87-5	1,2-Dichloropropane	BSD	REC	104	%	70-130
MSL4431-BSD	78-87-5	1,2-Dichloropropane	BSD	RPD	4	%	20
MSL4431-BSD	142-28-9	1,3-Dichloropropane	BSD	REC	102	%	70-130
MSL4431-BSD	142-28-9	1,3-Dichloropropane	BSD	RPD	2	%	20
MSL4431-BSD	594-20-7	2,2-Dichloropropane	BSD	REC	110	%	70-130
MSL4431-BSD	594-20-7	2,2-Dichloropropane	BSD	RPD	6	%	20
MSL4431-BSD	563-58-6	1,1-Dichloropropene	BSD	REC	99	%	70-130
MSL4431-BSD	563-58-6	1,1-Dichloropropene	BSD	RPD	6	%	20
MSL4431-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	REC	100	%	70-130
MSL4431-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	RPD	2	%	20
MSL4431-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	REC	100	%	70-130
MSL4431-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	RPD	1	%	20
MSL4431-BSD	123-91-1	1,4-Dioxane	BSD	REC	71	%	70-130
MSL4431-BSD	123-91-1	1,4-Dioxane	BSD	RPD	14	%	20
MSL4431-BSD	60-29-7	Ethyl Ether	BSD	REC	124	%	70-130
MSL4431-BSD	60-29-7	Ethyl Ether	BSD	RPD	0	%	20
MSL4431-BSD	100-41-4	Ethylbenzene	BSD	REC	98	%	70-130
MSL4431-BSD	100-41-4	Ethylbenzene	BSD	RPD	4	%	20
MSL4431-BSD	87-68-3	Hexachlorobutadiene	BSD	REC	98	%	70-130
MSL4431-BSD	87-68-3	Hexachlorobutadiene	BSD	RPD	10	%	20
MSL4431-BSD	591-78-6	2-Hexanone	BSD	REC	95	%	70-130
MSL4431-BSD	591-78-6	2-Hexanone	BSD	RPD	0	%	20
MSL4431-BSD	98-82-8	Isopropylbenzene	BSD	REC	101	%	70-130
MSL4431-BSD	98-82-8	Isopropylbenzene	BSD	RPD	5	%	20
MSL4431-BSD	99-87-6	p-Isopropyltoluene	BSD	REC	102	%	70-130
MSL4431-BSD	99-87-6	p-Isopropyltoluene	BSD	RPD	6	%	20
MSL4431-BSD	1634-04-4	Methyl Tert Butyl Ether	BSD	REC	105	%	70-130
MSL4431-BSD	1634-04-4	Methyl Tert Butyl Ether	BSD	RPD	1	%	20
MSL4431-BSD	108-10-1	4-Methyl-2-pentanone (MIBK)	BSD	REC	100	%	70-130
MSL4431-BSD	108-10-1	4-Methyl-2-pentanone (MIBK)	BSD	RPD	2	%	20
MSL4431-BSD	74-95-3	Methylene bromide	BSD	REC	105	%	70-130
MSL4431-BSD	74-95-3	Methylene bromide	BSD	RPD	2	%	20
MSL4431-BSD	75-09-2	Methylene chloride	BSD	REC	100	%	70-130
MSL4431-BSD	75-09-2	Methylene chloride	BSD	RPD	3	%	20
MSL4431-BSD	91-20-3	Naphthalene	BSD	REC	82	%	70-130
MSL4431-BSD	91-20-3	Naphthalene	BSD	RPD	3	%	20
MSL4431-BSD	103-65-1	n-Propylbenzene	BSD	REC	104	%	70-130
MSL4431-BSD	103-65-1	n-Propylbenzene	BSD	RPD	4	%	20

* Sample used for QC is not from job MC50480

QC Evaluation: MA MCP Limits

Job Number: MC50480
Account: Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA
Collected: 05/24/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MSL4431-BSD	100-42-5	Styrene	BSD	REC	102	%	70-130
MSL4431-BSD	100-42-5	Styrene	BSD	RPD	4	%	20
MSL4431-BSD	994-05-8	tert-Amyl Methyl Ether	BSD	REC	105	%	70-130
MSL4431-BSD	994-05-8	tert-Amyl Methyl Ether	BSD	RPD	0	%	20
MSL4431-BSD	637-92-3	tert-Butyl Ethyl Ether	BSD	REC	109	%	70-130
MSL4431-BSD	637-92-3	tert-Butyl Ethyl Ether	BSD	RPD	1	%	20
MSL4431-BSD	630-20-6	1,1,1,2-Tetrachloroethane	BSD	REC	102	%	70-130
MSL4431-BSD	630-20-6	1,1,1,2-Tetrachloroethane	BSD	RPD	4	%	20
MSL4431-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	REC	104	%	70-130
MSL4431-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	RPD	2	%	20
MSL4431-BSD	127-18-4	Tetrachloroethene	BSD	REC	94	%	70-130
MSL4431-BSD	127-18-4	Tetrachloroethene	BSD	RPD	8	%	20
MSL4431-BSD	109-99-9	Tetrahydrofuran	BSD	REC	105	%	70-130
MSL4431-BSD	109-99-9	Tetrahydrofuran	BSD	RPD	1	%	20
MSL4431-BSD	108-88-3	Toluene	BSD	REC	98	%	70-130
MSL4431-BSD	108-88-3	Toluene	BSD	RPD	4	%	20
MSL4431-BSD	87-61-6	1,2,3-Trichlorobenzene	BSD	REC	85	%	70-130
MSL4431-BSD	87-61-6	1,2,3-Trichlorobenzene	BSD	RPD	4	%	25
MSL4431-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	REC	89	%	70-130
MSL4431-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	RPD	6	%	20
MSL4431-BSD	71-55-6	1,1,1-Trichloroethane	BSD	REC	103	%	70-130
MSL4431-BSD	71-55-6	1,1,1-Trichloroethane	BSD	RPD	6	%	20
MSL4431-BSD	79-00-5	1,1,2-Trichloroethane	BSD	REC	104	%	70-130
MSL4431-BSD	79-00-5	1,1,2-Trichloroethane	BSD	RPD	1	%	20
MSL4431-BSD	79-01-6	Trichloroethene	BSD	REC	99	%	70-130
MSL4431-BSD	79-01-6	Trichloroethene	BSD	RPD	5	%	20
MSL4431-BSD	75-69-4	Trichlorofluoromethane	BSD	REC	101	%	70-130
MSL4431-BSD	75-69-4	Trichlorofluoromethane	BSD	RPD	7	%	20
MSL4431-BSD	96-18-4	1,2,3-Trichloropropane	BSD	REC	101	%	70-130
MSL4431-BSD	96-18-4	1,2,3-Trichloropropane	BSD	RPD	0	%	20
MSL4431-BSD	95-63-6	1,2,4-Trimethylbenzene	BSD	REC	102	%	70-130
MSL4431-BSD	95-63-6	1,2,4-Trimethylbenzene	BSD	RPD	6	%	20
MSL4431-BSD	108-67-8	1,3,5-Trimethylbenzene	BSD	REC	103	%	70-130
MSL4431-BSD	108-67-8	1,3,5-Trimethylbenzene	BSD	RPD	4	%	20
MSL4431-BSD	75-01-4	Vinyl chloride	BSD	REC	90	%	70-130
MSL4431-BSD	75-01-4	Vinyl chloride	BSD	RPD	9	%	20
MSL4431-BSD		m,p-Xylene	BSD	REC	98	%	70-130
MSL4431-BSD		m,p-Xylene	BSD	RPD	5	%	20
MSL4431-BSD	95-47-6	o-Xylene	BSD	REC	99	%	70-130
MSL4431-BSD	95-47-6	o-Xylene	BSD	RPD	5	%	20
MSL4431-BSD	1330-20-7	Xylene (total)	BSD	REC	99	%	70-130
MSL4431-BSD	1330-20-7	Xylene (total)	BSD	RPD	4	%	20
MSL4431-BSD	1868-53-7	Dibromofluoromethane	BSD	SURR	103	%	70-130
MSL4431-BSD	2037-26-5	Toluene-D8	BSD	SURR	100	%	70-130
MSL4431-BSD	460-00-4	4-Bromofluorobenzene	BSD	SURR	100	%	70-130

* Sample used for QC is not from job MC50480

QC Evaluation: MA MCP Limits

Job Number: MC50480
Account: Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA
Collected: 05/24/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MSL4431-MB	1868-53-7	Dibromofluoromethane	MB	SURR	105	%	70-130
MSL4431-MB	2037-26-5	Toluene-D8	MB	SURR	99	%	70-130
MSL4431-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	122	%	70-130
MC50480-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	105	%	70-130
MC50480-1	2037-26-5	Toluene-D8	SAMP	SURR	99	%	70-130
MC50480-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	123	%	70-130

* Sample used for QC is not from job MC50480

GC/MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC50480
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4431-MB	L103323.D	1	05/26/17	VY	n/a	n/a	MSL4431

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC50480-1

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	

Method Blank Summary

Job Number: MC50480
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4431-MB	L103323.D	1	05/26/17	VY	n/a	n/a	MSL4431

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC50480-1

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	50	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: MC50480
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4431-MB	L103323.D	1	05/26/17	VY	n/a	n/a	MSL4431

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC50480-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	76-129%
2037-26-5	Toluene-D8	99%	83-114%
460-00-4	4-Bromofluorobenzene	122%	75-124%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC50480
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4431-BS	L103320.D	1	05/26/17	VY	n/a	n/a	MSL4431
MSL4431-BSD	L103321.D	1	05/26/17	VY	n/a	n/a	MSL4431

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC50480-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	52.9	106	50.3	101	5	24-200/25
71-43-2	Benzene	50	51.6	103	50.4	101	2	66-123/25
108-86-1	Bromobenzene	50	52.3	105	51.0	102	3	73-124/25
74-97-5	Bromochloromethane	50	53.6	107	53.6	107	0	65-127/25
75-27-4	Bromodichloromethane	50	53.2	106	52.6	105	1	68-130/25
75-25-2	Bromoform	50	52.8	106	51.7	103	2	61-149/25
74-83-9	Bromomethane	50	58.9	118	54.9	110	7	52-151/25
78-93-3	2-Butanone (MEK)	50	52.8	106	54.2	108	3	45-171/25
104-51-8	n-Butylbenzene	50	58.4	117	54.1	108	8	80-134/30
135-98-8	sec-Butylbenzene	50	53.7	107	50.0	100	7	77-132/25
98-06-6	tert-Butylbenzene	50	53.6	107	49.3	99	8	71-130/25
75-15-0	Carbon disulfide	50	51.7	103	48.0	96	7	24-164/25
56-23-5	Carbon tetrachloride	50	53.5	107	50.4	101	6	54-151/25
108-90-7	Chlorobenzene	50	51.0	102	49.6	99	3	75-117/25
75-00-3	Chloroethane	50	64.4	129	60.4	121	6	54-160/25
67-66-3	Chloroform	50	55.1	110	52.7	105	4	65-127/25
74-87-3	Chloromethane	50	47.3	95	44.4	89	6	43-154/25
95-49-8	o-Chlorotoluene	50	53.3	107	51.6	103	3	71-128/25
106-43-4	p-Chlorotoluene	50	53.1	106	52.1	104	2	71-125/25
108-20-3	Di-Isopropyl ether	50	57.0	114	55.3	111	3	58-143/50
96-12-8	1,2-Dibromo-3-chloropropane	50	51.5	103	49.6	99	4	53-145/25
124-48-1	Dibromochloromethane	50	52.8	106	50.9	102	4	67-137/25
106-93-4	1,2-Dibromoethane	50	51.5	103	50.5	101	2	73-126/25
95-50-1	1,2-Dichlorobenzene	50	53.6	107	52.4	105	2	75-124/25
541-73-1	1,3-Dichlorobenzene	50	53.8	108	52.0	104	3	76-120/25
106-46-7	1,4-Dichlorobenzene	50	53.5	107	51.9	104	3	77-117/25
75-71-8	Dichlorodifluoromethane	50	40.4	81	37.3	75	8	20-161/25
75-34-3	1,1-Dichloroethane	50	54.6	109	52.3	105	4	55-128/25
107-06-2	1,2-Dichloroethane	50	54.9	110	54.5	109	1	68-126/25
75-35-4	1,1-Dichloroethene	50	48.2	96	45.2	90	6	44-148/25
156-59-2	cis-1,2-Dichloroethene	50	53.0	106	51.1	102	4	63-132/25
156-60-5	trans-1,2-Dichloroethene	50	52.9	106	50.1	100	5	54-127/25
78-87-5	1,2-Dichloropropane	50	53.7	107	51.8	104	4	68-123/25
142-28-9	1,3-Dichloropropane	50	52.4	105	51.2	102	2	75-130/25
594-20-7	2,2-Dichloropropane	50	58.6	117	55.0	110	6	47-156/25
563-58-6	1,1-Dichloropropene	50	52.7	105	49.6	99	6	65-123/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC50480
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4431-BS	L103320.D	1	05/26/17	VY	n/a	n/a	MSL4431
MSL4431-BSD	L103321.D	1	05/26/17	VY	n/a	n/a	MSL4431

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC50480-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	50.9	102	49.8	100	2	61-145/25
10061-02-6	trans-1,3-Dichloropropene	50	50.4	101	50.0	100	1	60-134/25
123-91-1	1,4-Dioxane	250	155	62	178	71	14	20-167/25
60-29-7	Ethyl Ether	50	61.8	124	61.8	124	0	45-152/25
100-41-4	Ethylbenzene	50	51.1	102	49.1	98	4	74-127/25
87-68-3	Hexachlorobutadiene	50	53.9	108	48.9	98	10	71-141/25
591-78-6	2-Hexanone	50	47.5	95	47.4	95	0	44-166/25
98-82-8	Isopropylbenzene	50	53.0	106	50.6	101	5	70-131/25
99-87-6	p-Isopropyltoluene	50	54.4	109	51.2	102	6	79-131/25
1634-04-4	Methyl Tert Butyl Ether	50	52.2	104	52.7	105	1	59-135/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	49.1	98	50.2	100	2	63-138/25
74-95-3	Methylene bromide	50	53.5	107	52.5	105	2	70-124/25
75-09-2	Methylene chloride	50	51.4	103	50.1	100	3	54-132/25
91-20-3	Naphthalene	50	41.9	84	40.8	82	3	37-145/25
103-65-1	n-Propylbenzene	50	54.1	108	51.8	104	4	71-128/25
100-42-5	Styrene	50	53.0	106	50.8	102	4	76-130/25
994-05-8	tert-Amyl Methyl Ether	50	52.2	104	52.3	105	0	63-131/25
637-92-3	tert-Butyl Ethyl Ether	50	54.7	109	54.4	109	1	59-134/300
630-20-6	1,1,1,2-Tetrachloroethane	50	53.2	106	50.9	102	4	71-139/25
79-34-5	1,1,2,2-Tetrachloroethane	50	51.0	102	52.2	104	2	62-130/25
127-18-4	Tetrachloroethene	50	51.2	102	47.1	94	8	68-133/25
109-99-9	Tetrahydrofuran	50	51.8	104	52.4	105	1	52-131/25
108-88-3	Toluene	50	51.0	102	49.0	98	4	73-124/25
87-61-6	1,2,3-Trichlorobenzene	50	44.4	89	42.5	85	4	58-144/25
120-82-1	1,2,4-Trichlorobenzene	50	47.3	95	44.5	89	6	63-137/25
71-55-6	1,1,1-Trichloroethane	50	55.0	110	51.7	103	6	60-135/25
79-00-5	1,1,2-Trichloroethane	50	51.7	103	52.1	104	1	72-125/25
79-01-6	Trichloroethene	50	51.6	103	49.3	99	5	73-120/25
75-69-4	Trichlorofluoromethane	50	54.3	109	50.7	101	7	52-152/25
96-18-4	1,2,3-Trichloropropane	50	50.7	101	50.7	101	0	56-136/25
95-63-6	1,2,4-Trimethylbenzene	50	54.3	109	51.0	102	6	76-125/25
108-67-8	1,3,5-Trimethylbenzene	50	53.4	107	51.3	103	4	76-132/25
75-01-4	Vinyl chloride	50	49.3	99	45.2	90	9	49-154/25
	m,p-Xylene	100	103	103	98.4	98	5	73-129/25
95-47-6	o-Xylene	50	51.8	104	49.4	99	5	73-128/25
1330-20-7	Xylene (total)	150	154	103	148	99	4	74-129/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC50480
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4431-BS	L103320.D	1	05/26/17	VY	n/a	n/a	MSL4431
MSL4431-BSD	L103321.D	1	05/26/17	VY	n/a	n/a	MSL4431

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC50480-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	104%	103%	76-129%
2037-26-5	Toluene-D8	98%	100%	83-114%
460-00-4	4-Bromofluorobenzene	98%	100%	75-124%

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC50480
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Check Std:	MSL4431-CC4418	**Injection Date:**	05/26/17
Lab File ID:	L103319.D	**Injection Time:**	15:24
Instrument ID:	GCMSL	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	145714	9.56	226199	10.45	130948	13.66	130808	16.23	40430	7.52
Upper Limit [a]	291428	10.06	452398	10.95	261896	14.16	261616	16.73	80860	8.02
Lower Limit [b]	72857	9.06	113100	9.95	65474	13.16	65404	15.73	20215	7.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSL4431-BS	149387	9.56	237014	10.45	128703	13.66	130648	16.23	42445	7.51
MSL4431-BSD	151443	9.56	236891	10.45	132676	13.66	131840	16.23	44276	7.52
MSL4431-MB	148872	9.56	232864	10.46	128405	13.66	99875	16.23	44914	7.52
ZZZZZZ	145729	9.56	231462	10.46	130612	13.66	97864	16.23	39449	7.52
ZZZZZZ	136374	9.56	214647	10.46	123242	13.66	90934	16.23	37570	7.52
ZZZZZZ	138932	9.56	219279	10.45	120210	13.66	110319	16.23	40804	7.52
ZZZZZZ	141108	9.56	220784	10.46	126069	13.66	98605	16.23	44800	7.52
ZZZZZZ	146436	9.56	232267	10.46	127561	13.66	97715	16.23	43502	7.52
ZZZZZZ	148952	9.56	231874	10.46	127328	13.66	96250	16.23	43920	7.52
ZZZZZZ	145957	9.56	229218	10.46	127425	13.66	96385	16.23	43652	7.52
ZZZZZZ	144740	9.56	228119	10.46	125611	13.66	95405	16.23	42841	7.52
ZZZZZZ	141199	9.56	222710	10.46	123511	13.66	90823	16.23	40704	7.52
ZZZZZZ	144875	9.56	225556	10.46	126778	13.66	95031	16.23	41602	7.52
ZZZZZZ	142603	9.56	224060	10.46	126792	13.66	94243	16.23	42390	7.52
ZZZZZZ	136369	9.56	215384	10.46	121134	13.66	89161	16.23	39420	7.52
ZZZZZZ	141904	9.56	220159	10.46	124296	13.66	94319	16.23	41114	7.52
ZZZZZZ	145545	9.56	229879	10.46	127708	13.66	103389	16.23	53424	7.52
ZZZZZZ	140997	9.56	219079	10.46	124780	13.66	95713	16.23	43107	7.52
MC50480-1	136884	9.56	212937	10.46	116839	13.66	87944	16.23	39207	7.52

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC50480
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50480-1	L103342.D	105	99	123
MSL4431-BS	L103320.D	104	98	98
MSL4431-BSD	L103321.D	103	100	100
MSL4431-MB	L103323.D	105	99	122

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	76-129%
S2 = Toluene-D8	83-114%
S3 = 4-Bromofluorobenzene	75-124%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC50480
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBH2536-MB	BH42125.D	1	05/29/17	AF	n/a	n/a	GBH2536

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

MC50480-1

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	3.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	
	C5- C8 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	ug/l	
	C5- C8 Aliphatics	ND	50	ug/l	
	C9- C12 Aliphatics	ND	50	ug/l	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	97%	70-130%
	2,3,4-Trifluorotoluene	97%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC50480
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBH2536-BSP	BH42126.D	1	05/29/17	AF	n/a	n/a	GBH2536
GBH2536-BSD	BH42127.D	1	05/29/17	AF	n/a	n/a	GBH2536

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

MC50480-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	51.6	103	52.4	105	2	70-130/25
100-41-4	Ethylbenzene	50	51.6	103	52.6	105	2	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	53.0	106	53.7	107	1	70-130/25
91-20-3	Naphthalene	50	54.2	108	55.6	111	3	70-130/25
108-88-3	Toluene	50	51.4	103	52.1	104	1	70-130/25
	m,p-Xylene	100	103	103	104	104	1	70-130/25
95-47-6	o-Xylene	50	50.5	101	51.2	102	1	70-130/25
	C5- C8 Aliphatics (Unadj.)	150	148	99	148	99	0	70-130/25
	C9- C12 Aliphatics (Unadj.)	150	130	87	133	89	2	70-130/25
	C9- C10 Aromatics (Unadj.)	50	51.4	103	52.5	105	2	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	99%	100%	70-130%
	2,3,4-Trifluorotoluene	99%	99%	70-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC50480
Account: WEBMAN Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Method: MADEP VPH REV 1.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC50480-1	BH42150.D	99	96
GBH2536-BSD	BH42127.D	100	99
GBH2536-BSP	BH42126.D	99	99
GBH2536-MB	BH42125.D	97	97

Surrogate Compounds	Recovery Limits
S1 = 2,3,4-Trifluorotoluene	70-130%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC50480
Account: WEBMAN - Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN55888	0.010	0.0	mg/l	.1	0.096	96.0	85-115%

Associated Samples:
Batch GN55888: MC50480-1
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC50480
Account: WEBMAN - Web Engineering Associates, Inc.
Project: SM Hodson Company, 26 Brande Court, Reading, MA

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Chromium, Hexavalent	GN55888	mg/l	.1	0.096	0.0	20%

Associated Samples:
Batch GN55888: MC50480-1
(*) Outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(SGS Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

SGS ACCUTEST

CHAIN OF CUSTODY

50 D'Angelo Drive, 495 Technology Center West, Bldg One, Marlborough, MA 01752
TEL. 508-481-6200 FAX: 508-481-7753
www.sgs.com

FED-EX Tracking #	Bottle Order Control #
SGS Accutest Quote #	SGS Accutest Job MC50480

Client / Reporting Information

Company Name: SGS Accutest
Street Address: 50 D'Angelo Drive, 495 Technolgy Center West, BLDG One
City / State / Zip: Marlbourough, MA 0175:
Project Contact / E-mail: JEREMY VIENNEAU@Accutest.com
Phone #: 508-481-6200 / Fax #:
Sampler(s) Name(s): AWB / Phone:

Project Information

Project Name: SM Hodson Company, 26 Brande Court, Reading, MA
Street:
City / State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	HM11, CHL , OG1664	LAB USE ONLY
1	MW-1		5/24/17	2:30:00 PM	AWB	AQ	4	x		x		x				X	C21
																	C26
																	G12

INITIAL ASESSMENT [illegible]
LABEL VERIFICATION [illegible]

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 6/2/2017

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other MAMCP

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Ship to ALNJ -- 5 Day TAT

MCP Criteria Needed

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 IMPULSE	5/26/17 1930	1 [signature]	2		2
3		3	4		4
5		5			

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☑ [initials] — On Ice ☒ — Cooler Temp. 2.8

9.1

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MC50480: Chain of Custody
Page 1 of 2
SGS Accutest New Jersey

SGS Accutest Sample Receipt Summary

Job Number: MC50480 **Client:** _____ **Project:** _____

Date / Time Received: 5/26/2017 7:30:00 PM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.8);

Cooler Temps (Corrected) °C: Cooler 1: (4.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

SM089-02
Rev. Date 12/1/16

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MC50480: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50480

WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA
Project No: 17-E-021

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50480-1	Collected: 24-MAY-17 14:30 By: AWB	Received: 25-MAY-17 By: AS				
MW-1						
MC50480-1	EPA 300/SW846 9056A	28-MAY-17 16:16	YR	28-MAY-17	YR	CHL
MC50480-1	SW846 6010C	30-MAY-17 19:28	AB	30-MAY-17	RM	AG,AS,CD,CR,CU,FE,NI,PB,SB,ZN
MC50480-1	EPA 1664A	30-MAY-17 22:00	CB	30-MAY-17	CB	OG1664
MC50480-1	SW846 7470A	01-JUN-17 12:42	JPM	01-JUN-17	JPM	HG

QC Evaluation: MA MCP Limits

Job Number: MC50480
Account: SGS Accutest New England
Project: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA
Collected: 05/24/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No Exceptions found.

* Sample used for QC is not from job MC50480

Metals Analysis

QC Data Summaries

(SGS Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC50480
Account: ALNE - SGS Accutest New England
Project: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA

QC Batch ID: MP1128
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				05/30/17		05/30/17	
Metal	RL	IDL	MDL	MB raw	MB final	MB raw	MB final
Aluminum	200	10	21				
Antimony	6.0	1.2	3.3	-0.90	<6.0	-0.20	<6.0
Arsenic	3.0	1.3	2.2	-0.10	<3.0	0.70	<3.0
Barium	200	.2	.44				
Beryllium	1.0	.05	.25				
Bismuth	20	1.8	2.9				
Boron	100	1.2	3.9				
Cadmium	3.0	.3	.4	0.20	<3.0	-0.10	<3.0
Calcium	5000	14	29				
Chromium	10	.6	.81	0.20	<10	-0.30	<10
Cobalt	50	.3	.69				
Copper	10	.7	2.4	2.1	<10	0.70	<10
Iron	100	3.6	12	5.2	<100	0.40	<100
Lead	3.0	1.1	2.3	-0.20	<3.0	0.50	<3.0
Lithium	20	1.4	4				
Magnesium	5000	19	64				
Manganese	15	.1	.39				
Molybdenum	20	.5	.88				
Nickel	10	.6	.76	0.20	<10	-0.20	<10
Palladium	50	2.2	3.7				
Phosphorus	50	2	3.7				
Potassium	10000	23	120				
Selenium	10	3.5	4.1				
Silicon	200	1.6	29				
Silver	10	.9	.88	-0.20	<10	-0.10	<10
Sodium	10000	12	24				
Strontium	10	.1	.22				
Sulfur	50	3.8	6.9				
Thallium	2.0	1.6	1.6				
Tin	10	.7	2.3				
Titanium	10	.7	.99				
Tungsten	50	.9	3.2				
Vanadium	50	.5	.66				

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC50480
Account: ALNE - SGS Accutest New England
Project: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA

QC Batch ID: MP1128
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				05/30/17		05/30/17	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Zinc	20	1.8	1.3	2.2	<20	1.6	<20
Zirconium	10	.3	.94				

Associated samples MP1128: MC50480-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC50480
Account: ALNE - SGS Accutest New England
Project: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA

QC Batch ID: MP1128
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			05/30/17					05/30/17	
Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSD Result	Spikelot MPSPK2	% Rec	BSD RPD	QC Limit
Aluminum	anr								
Antimony	2120	2000	106.0	80-120	2070	2000	103.5	1.9	
Arsenic	2090	2000	104.5	80-120	2040	2000	102.0	1.5	
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	2110	2000	105.5	80-120	2060	2000	103.0	1.9	
Calcium	anr								
Chromium	2070	2000	103.5	80-120	2090	2000	104.5	0.0	
Cobalt	anr								
Copper	2050	2000	102.5	80-120	2050	2000	102.5	0.0	
Iron	26400	25000	105.6	80-120	26600	25000	106.4	0.0	
Lead	2110	2000	105.5	80-120	2060	2000	103.0	2.4	
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	2080	2000	104.0	80-120	2050	2000	102.5	1.9	
Palladium									
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	256	250	102.4	80-120	252	250	100.8	1.2	
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC50480
Account: ALNE - SGS Accutest New England
Project: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA

QC Batch ID: MP1128
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			05/30/17					05/30/17	
Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSD Result	Spikelot MPSPK2	% Rec	BSD RPD	QC Limit
Zinc	2110	2000	105.5	80-120	2080	2000	104.0	1.0	
Zirconium									

Associated samples MP1128: MC50480-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC50480
Account: ALNE - SGS Accutest New England
Project: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA

QC Batch ID: MP1128
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/30/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr			
Antimony	2110	2000	105.5	80-120
Arsenic	2070	2000	103.5	80-120
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	2100	2000	105.0	80-120
Calcium	anr			
Chromium	2090	2000	104.5	80-120
Cobalt	anr			
Copper	2050	2000	102.5	80-120
Iron	26600	25000	106.4	80-120
Lead	2110	2000	105.5	80-120
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	2090	2000	104.5	80-120
Palladium				
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	255	250	102.0	80-120
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC50480
Account: ALNE - SGS Accutest New England
Project: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA

QC Batch ID: MP1128
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/30/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	2100	2000	105.0	80-120
Zirconium				

Associated samples MP1128: MC50480-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC50480
Account: ALNE - SGS Accutest New England
Project: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA

QC Batch ID: MP1128
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/30/17

Metal	JC44151-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	0.00	0.00	NC	0-10
Arsenic	3.10	0.00	100.0(a)	0-10
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	0.300	1.60	433.3(a)	0-10
Calcium	anr			
Chromium	5.00	7.20	44.0 (a)	0-10
Cobalt	anr			
Copper	10.3	11.8	14.6 (a)	0-10
Iron	2250	2240	0.4	0-10
Lead	43.5	39.6	9.0	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	4.40	5.40	22.7 (a)	0-10
Palladium				
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC50480
Account: ALNE - SGS Accutest New England
Project: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA

QC Batch ID: MP1128 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/30/17

Metal	JC44151-1 Original	SDL 1:5	%DIF	QC Limits
Zinc	129	143	10.8*(b)	0-10
Zirconium				

Associated samples MP1128: MC50480-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC50480
Account: ALNE - SGS Accutest New England
Project: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA

QC Batch ID: MP1183 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/01/17

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.058	.083	0.083	<0.20

Associated samples MP1183: MC50480-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC50480
Account: ALNE - SGS Accutest New England
Project: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA

QC Batch ID: MP1183
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/01/17 06/01/17

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSD Result	Spikelot HGPW3	% Rec	BSD RPD	QC Limit
Mercury	2.1	2	105.0	80-120	2.0	2	100.0	4.9	

Associated samples MP1183: MC50480-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

(SGS Accutest New Jersey)

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC50480
Account: ALNE - SGS Accutest New England
Project: WEBMAN: SM Hodson Company, 26 Brande Court, Reading, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP5652/GN64848	2.0	0.0	mg/l	80	82.2	102.8	90-110%
HEM Oil and Grease	GP5677/GN64901	5.0	1.7	mg/l	40.05	37.3	93.1	78-114%
Sulfate	GP5652/GN64848	10	0.0	mg/l	80	82.3	102.9	90-110%

Associated Samples:
Batch GP5652: MC50480-1
Batch GP5677: MC50480-1
(*) Outside of QC limits