

Water Supply and Environmental Consulting

October 12, 2016

Planning Board 60 Pleasant Street P.O. Box 550 Newburyport, MA 01950

Re: Evergreen Commons OSRD Newburyport, MA

Dear Board Members:

Northeast Geoscience, Inc. (NGI) is writing to provide information to the Planning Board regarding the proposed Evergreen Commons Open Space Residential Development (OSRD) at 18 Boyd Drive in Newburyport, MA. This information is being provided in response to requests made during the Planning Board Public Hearing on this project held on September 21, 2016 and is intended to supplement information provided in the Water Resources Impact Evaluation Report prepared by NGI dated September 19, 2016.

Turf Care Product Use at the Evergreen Valley Golf Course

NGI has received updated records of turf management product purchases and applications from the Evergreen Valley Golf Course management. These records demonstrate pesticide, herbicide and fungicide applications at the Evergreen Valley Golf Club that are routinely administered by Phyllis Hodge at PH Lawn Care in Essex, MA, a licensed pesticide applicator through the Massachusetts Department of Agricultural Resources (License No. 10258). Records of products purchased by the Evergreen Golf Course from September 2014 to the present are presented on Table 1. As shown on Table 1 a variety of pesticides, herbicides, fungicides and bactericides are routinely applied to the golf course as part of an integrated pest management plan. Additionally, fertilizers and soil wetting agents are applied to maintain turf.

The Massachusetts Department of Agricultural Resources has a statutory responsibility to protect public drinking water supplies from pesticide application. The Department of Agricultural Resources maintains standards including the Groundwater Protection List (Table 2,) which names products with active ingredients that could impact groundwater. Use of these products in Zone II must be approved by the Department of Agriculture on a site-specific basis. None of the products on Table 1 are on the Groundwater Protection List. Further, none of the products used are listed as prohibited herbicides, pesticides or fungicides in the Order of Conditions (051-0085) for the golf course and are consistent with recommendations in the M. Anthony Lally Associates report dated September 17, 1985 regarding turf management practices.

Current Groundwater Quality at the Evergreen Valley Golf Course

The Planning Board requested information on the current quality of groundwater at the Evergreen Valley Golf Course. On September 27, 2016 NGI personnel collected three groundwater samples from one irrigation well (IW-1) and two monitoring wells (MW-6 and MW-7) at the golf course. A map showing the locations of the wells is presented on Figure 1. Wells were purged of a minimum of three volumes of standing water prior to collecting representative groundwater samples. Samples were collected in bottles provided by the laboratory, placed on ice in a cooler and delivered to the laboratory for analysis under a chain of custody. Each sample was analyzed for volatile organic compounds (VOCs), synthetic organic compounds (SOCs), nitrate, nitrite, sodium, chloride, potassium and total phosphorous. The laboratory data sheets are included in Appendix A of this report.

The results of the laboratory analyses are presented on Table 3. The current water quality at the golf course is good. Concentrations of sodium and chloride are slightly elevated most likely as a result of road salt applications on I-95 and Boyd Drive. Nitrate concentrations ranged from 0.42 to 1.8 mg/L. These concentrations are significantly below the drinking water standard for nitrate of 10 mg/L and do not indicate over application of fertilizers on the golf course. Elevated total phosphorous and potassium concentrations are indications of fertilizer applications but do not pose a threat to drinking water.

One Volatile Organic Compound p-Isopropyltoluene was detected in samples from monitoring well MW-7 at a concentration of 1.8 ug/L. Isopropyl toluene is naturally occurring aromatic organic compound used in fuels and fuel additives, cleaning products, and laundry and dish washing products. Currently this compound is unregulated and there is no maximum contaminant level (MCL) established for p-isopropyltoluene, however the State of New York lists 5.0 ug/L as a secondary drinking water standard. The source of this compound is not known. NGI does not consider the presence of this compound at this concentration to be a water quality threat to Well No. 2. No synthetic organic compounds were detected in the samples collected.

Recent Water Quality from Well No. 2

Newburyport Water Works collected water samples from Well No. 2 for synthetic organic compounds (SOC) analysis on February 5, 2015 and December 8, 2015. These are the most recent samples collected from Well No. 2 for SOC analysis. The results of this analysis are included in Appendix A of this report. No SOC compounds were detected in either of the samples collected from Well No. 2 or the monitoring wells on the Evergreen Commons site.

The SOC analysis includes 2,4-D which is one of the oldest and most widely available selective herbicides in the world. It is an active ingredient in over 1,500 herbicide containing products such as Scott's Weed and Feed, Lesco Weed and Feed and Vigro Weed and Feed. The SOC analysis also includes Dicamba, another selective herbicide commonly found in weed and feed products. Based on the widespread use of these lawn care products and the 98 existing lawns in the Zone II Recharge Area of Well No. 2, it is reasonable to assume that 2,4-D and Dicamba

have been and are being applied to lawns in the Zone II Recharge Area. It also is evident that these products are photodegrading, biodegrading or weathering prior to reaching Well No. 2.

Nitrogen Loading Calculations

NGI prepared mass balance nitrogen loading calculations using methods outline in the MADEP Guidelines for Aggregate Nitrogen Loading Plans revised February 2016. Calculations were prepared for the combined Zone II Recharge Area for Wells No. 1 and No. 2. A second set of calculations was prepared for the portion of Zone II that contributes water to Well No. 2 assumed to be portions of the combined Zone II east of Interstate I-95. Calculations were prepared for both existing conditions and proposed conditions where the existing golf course is replaced with a 38 lot OSRD.

Sources of nitrogen in the calculations include fertilizer applied to lawns, cropland and the golf course under both existing and proposed conditions. Existing residential lots in Zone II are approximately 22,000 ft² (1/2 acre) lots and larger and were assumed to have 12,000 ft² lawns. The proposed lots in Evergreen Commons average 13,000 ft² (1/3 acre) lots and were assumed to have 10,000 ft² lawns. It was assumed that the golf course, crop land and lawns were all fertilized at an application rate of 3 pounds nitrogen per year per 1,000 ft² with 25% leaching to groundwater. It was assumed that Well No. 1 was pumping 200 gpm and that Well No. 2 was pumping 225 gpm on a continuous basis. The mass balance calculations mathematically mix available nitrogen into the water pumped from the wells and generate an estimated nitrate concentration in mg/L. Calculations are presented on Table 4.

The calculations for existing conditions generate estimated nitrate concentrations of 1.05 mg/L for the entire Zone II and 1.54 mg/L for the Well No. 2 Zone II. The estimates are close to the average concentration of nitrate in Well No. 2 of 1.6 mg/L.

The calculations for proposed conditions generate estimated nitrate concentrations of 0.79 mg/L for the entire Zone II and 1.04 mg/L for the Well No. 2 Zone II. These calculations indicate that replacing 23.8 acres of managed turf on the golf course with 9 acres of lawn will result in improvements to the quality of the water in Zone II and Well No. 2.

Wellhead Protection Ordinance Considerations

The Evergreen Valley Golf Course was proposed before the City of Newburyport delineated Zone II and adopted a Water Resource Protection District. The Wellhead Protection Ordinance was prepared using the MADEP Model Wellhead Protection Ordinance to ensure compliance with 310 CMR 22.21 – Wellhead Protection Zoning and Non-Zoning Controls.

The golf course was identified by TEEM (1999) as one of four water quality hazards in Zone II. Were the golf course proposed today, a special permit would have to be granted under the Water Resource Protection District Ordinance to allow application of pesticides, herbicides and fertilizer for non-domestic non-agricultural purposes. The proposed OSRD by contrast, is an allowed use within the Water Resources Protection District and does not require a special permit. In addition, the OSRD is consistent with existing land use in Zone II such as residential development on Boyd Drive and the neighborhood north of Well No. 2.

Conclusions

Current water quality data for Newburyport Well No. 2 do not indicate water quality impacts to the well from existing residential development in Zone II. The mass balance nitrogen loading calculations demonstrate that substituting the OSRD for the golf course will improve the water quality in Well No. 2. For all these reasons, the proposed OSRD is a more desirable land use than the golf course from a wellhead protection perspective.

Please do not hesitate to contact me with any further questions.

Sincerely: NORTHEAST GEOSCIENCE, INC.

Jay Billings Hydrogeologist

References

Lally Associates, Anthony M. 1985. Report of Findings Evergreen Estates and Golf Course, Newburyport, Massachusetts. Consulting Environmental Engineers.

Massachusetts Department of Environmental Protection. 2016. Guidelines for Title 5 Aggregation of Flows and Nitrogen Loading revised 2/22/2016.

Talkington-Edson Environmental Management. 1999. Source Water Assessment Program Conceptual Zone II Delineation, Newburyport Water Works Gravel Packed Wells 1 and 2 (PWS 3206000-01G and -02G).

TABLES



Table 1	
Evergreen Valley Golf Course Turf Care Products	

Date	Units	Product	Unit Cost	Total Cost	Active Ingredient	Product Type
9/3/2014	8	Prophesy 0.72G Fungicide	\$59.00	\$472.00	Propoconazole	Fungicide
9/19/2014	2	TriCure Granular 40 lb bag	\$90.00	\$180.00	Dihydrooxirane epihydrin	Soil Wetting Agent
12/16/2014	5	Fungicide IX Anderson 30	\$95.50	\$477.50	Chloroneb and Thiophanate-methyl	Fungicide
4/3/2015	7	Fungicide IX Anderson 30	\$95.50	\$688.50	Chloroneb and Thiophanate-methyl	Fungicide
4/20/2015	6	AND (17-0-17)50%MU Ggrade	\$51.80	\$310.80	Acelepryn in fertilizer	Fertilizer
5/9/2015	5	AND(28-0-3)164%Dim/0.67%	\$89.00	\$445.00	Acelepryn in fertilizer	Fertilizer
5/13/2015	2	AND(28-0-3)164%Dim/0.67%	\$89.00	\$178.00	Acelepryn in fertilizer	Fertilizer
6/22/2015	4	Prophesy 0.72G Fungicide	\$59.00	\$236.00	Propoconazole	Fungicide
6/22/2015	4	Insecticide III 1.34% Chl	\$55.00	\$220.00	Chloropyrifos	Insecticide
7/15/2015	6	AND(9-4-9)DG Biomend 40 lb	\$41.60	\$249.60	Bone meal based fertilizer	Fertilizer
7/15/2015	6	Disarm G 25 lb Bag	\$54.50	\$327.00	Fluoxastrobin 15.81%	Fungicide
7/16/2015	4	Disarm G 25 lb Bag	\$54.50	\$218.00	Fluoxastrobin 15.81%	Fungicide
8/3/2015	1	EndoROOTS 3-3-4 50 lb bag	\$72.00	\$72.00	Fertilizer with biologicals	Fertilizer
8/3/2015	5	TriCure Granular 40 lb bag	\$95.00	\$475.00	Dihydrooxirane epihydrin	Soil Wetting Agent
8/19/2015	6	Fungicide IX Anderson 30	\$95.50	\$573.00	Chloroneb and Thiophanate-methyl	Fungicide
8/19/2015	1	8.5% Betasan Weed Prevent	\$109.00	\$109.00	Bensulide	Herbicide
8/25/2015	7	Cleary's 3336 DGPro #30	\$60.00	\$420.00	Thiophanate	Fungicide
8/25/2015	7	AND(9-4-9)DG Biomend 40 lb	\$40.00	\$280.00	Bone meal based fertilizer	Fertilizer
8/26/2015	4	Cleary's 3336 DGPro #30	\$60.00	\$240.00	Thiophanate	Fungicide
8/26/2015	2	AND(9-4-9)DG Biomend 40 lb	\$40.00	\$80.00	Bone meal based fertilizer	Fertilizer
9/9/2015	8	Prophesy 0.72G Fungicide	\$59.00	\$472.00	Propoconazole	Fungicide
9/15/2015	4	Prophesy 0.72G Fungicide	\$59.00	\$236.00	Propoconazole	Fungicide
9/15/2015	2	Bifenthrin 0.1G HDG 30 lb	\$24.50	\$49.00	2-Methyl-3-phenylphenyl)methyl (1S,3S)-3-[(Z)-2-chloro-3,3,3-trifluoroprop-1-enyl]-	Insecticide
4/6/2016	2	LESCO Twosome Fungicide	\$126.99	\$253.98	Thiophanate-methyl and iprodione	Fungicide
4/6/2016	2	18 Plus Lesco Fungicide	\$114.00	\$228.00	Iprodione	Fungicide
4/6/2016	4	Country Club MD 16-0-8E	\$40.00	\$160.00	Fertilizer	Fertilizer
4/6/2016	6	Country Club MD 18-3-6	\$50.00	\$300.00	Fertilizer	Fertilizer
4/6/2016	2	LESCO Green Flo 18-3-6	\$36.60	\$73.20	Fertilizer	Fertilizer
4/6/2016	2	Spectator Ultra Fungicide	\$87.29	\$174.58	Propoconazole	Fungicide
10/24/2015	6	Fungicide IX Anderson 52.8	\$126.00	\$756.00	Chloroneb and Thiophanate-methyl	Fungicide
6/3/2016	6	Prophesy 0.72G Fungicide	\$59.00	\$354.00	Propoconazole	Fungicide
6/3/2016	2	EPN N-Fuze (7-0-0) 2.5G	\$45.00	\$90.00	Fertilizer	Fertilizer
7/7/2016	2	Junction Fungicide 6 lb	\$124.05	\$248.10	Ethylenebisdithiocarbamate, zinc and manganese	Fungicide/Bactericide
8/1/2016	7	Cleary's 3336 DGPro #30	\$59.00	\$413.00	Thiophanate	Fungicide
8/1/2016	1	ENP (12-4-6) 2.5 gal	\$81.50	\$81.50	Fertilizer	Fertilizer
8/17/2016	1	Zeta-Plex N-Fuze 2.5 Gal	\$49.75	\$49.75	Liquid ammonium sulfate with amino acids	Fertilizer

Table 2 – Groundwater Protection List

Herbicides

- Acetochlor*
- Acifluoren
- Alachlor
- Aldicarb
- Atrazine
- Bentazon
- Bromacil
- Cyanazine
- Chlorthal-Dimethyl**
- Dimethanamid
- Diuron
- Flufenacet
- Fluthiacet-methyl
- MCPA
- Metolachlor
- Metribuzin
- PCP
- Pronamide
- Propazine
- Simazine
- Sulfentrazone

Insecticides

- Aldicarb
- Carbofuran
- Dinotefuran
- Disulfoton
- Fenamiphos
- Fonofos
- Lindane
- Methoxyfenozide
- PCP
- Propoxur
- Terbufos
- Thiamethoxam

Fungicides

- Chlorothalonil
- Cyflufenamid
- Cyproconazole
- Folpet
- Fluopyram
- Kresoxim-Methyl
- Triticonazole
- Sedaxane

Table 3 Groundwater Quality Data Evergreen Valley Golf Course - Newburyport, MA

Parameter	IW-1	MW-6	MW-7
Sodium (mg/L)	46.6	21.0	62.5
Potassium (mg/L)	3.91	8.85	24.6
Chloride (mg/L)	129	39.6	160
Nitrate (mg/L)	1.2	1.8	0.42
Nitrite (mg/L)	<0.05	<0.05	<0.05
Total Phosphorous (mg/L)	<0.01	1.48	2.17
Volatile Organic Compounds (ug/L)	<0.5	<0.5	1.8*
Synthetic Organic Compounds (ug/L)	<0.5	<0.5	<0.5

* - Isopropyltoluene

Table 4 - Nitrogen Loading Calculations

Existing Conditions - Entire Zone II

Existing	Average	Proposed	Average	Total	Total Golf	Total Crop	Total Fertilized	Total Nitrogen	Total Nitrogen	Actual Well	Estimated Nitrate
Res. Lots	Lawn Size (ft2)	Res. Lots	Lawn Size (ft2)	Lawn (ft2)	Course (ft2)	Land (ft2)	Land (ft2)	Fertilizer (lbs/y)	Fertilizer (mg/day)	Withdrawals (L/day)	Conc. (mg/L)
98	12,000	0	10,000	1,176,000	1,036,728	397,703	2,610,431	1,958	2,433,065	2,316,420	1.05

Proposed Conditions - Entire Zone II

Existin	g Average	Proposed	Average	Total	Total Golf	Total Crop	Total Fertilized	Total Nitrogen	Total Nitrogen	Actual Well	Estimated Nitrate
Res. Lo	ts Lawn Size (ft2)	Res. Lots	Lawn Size (ft2)	Lawn (ft2)	Course (ft2)	Land (ft2)	Land (ft2)	Fertilizer (lbs/y)	Fertilizer (mg/day)	Withdrawals (L/day)	Conc. (mg/L)
98	12,000	38	10,000	1,556,000	0	397,703	1,953,703	1,465	1,820,958	2,316,420	0.79

Existing Conditions - Zone II Well No. 2

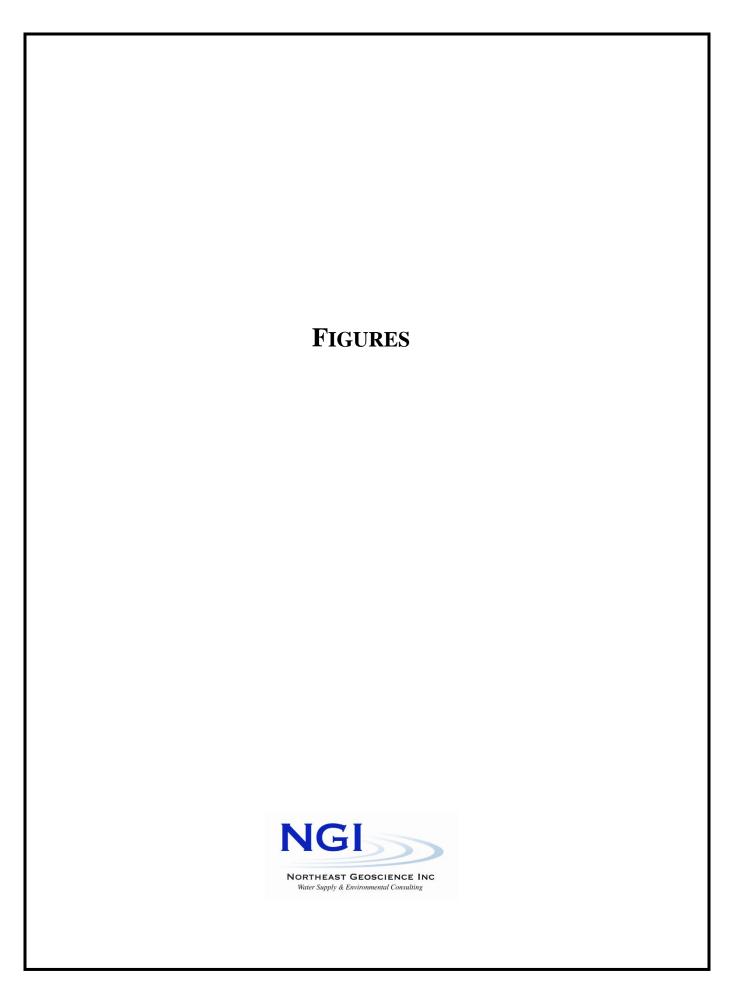
Existing	Average	Proposed	Average	Total	Total Golf	Total Crop	Total Fertilized	Total Nitrogen	Total Nitrogen	Actual Well	Estimated Nitrate
Res. Lots	Lawn Size (ft2)	Res. Lots	Lawn Size (ft2)	Lawn (ft2)	Course (ft2)	Land (ft2)	Land (ft2)	Fertilizer (lbs/y)	Fertilizer (mg/day)	Withdrawals (L/day)	Conc. (mg/L)
82	12,000	0	10,000	984,000	1,036,728	0	2,020,728	1,516	1,883,429	1,226,340	1.54

Proposed Conditions - Zone II Well No. 2

Existing	Average	Proposed	Average	Total	Total Golf	Total Crop	Total Fertilized	Total Nitrogen	Total Nitrogen	Actual Well	Estimated Nitrate
Res. Lots	Lawn Size (ft2)	Res. Lots	Lawn Size (ft2)	Lawn (ft2)	Course (ft2)	Land (ft2)	Land (ft2)	Fertilizer (lbs/y)	Fertilizer (mg/day)	Withdrawals (L/day)	Conc. (mg/L)
82	12,000	38	10,000	1,364,000	0	0	1,364,000	1,023	1,271,323	1,226,340	1.04

Assumptions

Well No. 1 MADEP Approved Withdrawal = 325 gpm Well No. 1 Actual Withdrawl Rate = 200 gpm Well No. 2 MADEP Approved Withdrawal Rate = 408 gpm Well No. 2 Actual Withdrawal Rate = 225 gpm Lawn, golf course and crop land fertilized at 3 lbs/1,000 ft2 with a 25% leaching rate Zone II for Well No. 2 is area East of I-95





SOIL BORING

	s	
50	100	200
	Feet	

GI REF: PropCondSitePlan11x17 Drafted By: JAF Date: 10/11/2016 Source: MassGIS, ArcGIS, Design Consult., Inc.

APPENDIX A



NORTHEAST GEOSCIENCE INC Water Supply & Environmental Consulting



ANALYTICAL REPORT

Lab Number:	L1630671
Client:	Northeast Geoscience, Inc. 97 Walnut Street Clinton, MA 01510
ATTN: Phone:	Jay Billings (978) 365-9045
Project Name:	160801 EVERGREEN
Project Number:	160801
Report Date:	10/09/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Serial_No:10091619:29

 Project Name:
 160801 EVERGREEN

 Project Number:
 160801

 Lab Number:
 L1630671

 Report Date:
 10/09/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1630671-01	MW-6	DW	NEWBURYPORT	09/27/16 15:00	09/28/16
L1630671-02	IW-1	DW	NEWBURYPORT	09/27/16 15:40	09/28/16
L1630671-03	MW-7	DW	NEWBURYPORT	09/27/16 16:30	09/28/16
L1630671-04	TRIP BLANK	WATER	NEWBURYPORT	09/27/16 00:00	09/28/16

Project Name: 160801 EVERGREEN Project Number: 160801 Lab Number: L1630671 Report Date: 10/09/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



Project Name: 160801 EVERGREEN Project Number: 160801
 Lab Number:
 L1630671

 Report Date:
 10/09/16

Case Narrative (continued)

Report Submission

The analyses of Glyphosate, Diquat and SOCs were subcontracted, and the results will be issued under separate cover.

Sample Receipt

A Trip Blank was received in the laboratory, but not listed on the Chain of Custody, and was not analyzed. L1630671-01: The sample was received without the container for Metals analysis. An aliquot was taken from an unpreserved container and preserved appropriately.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Standow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 10/09/16



ORGANICS



VOLATILES



			Serial_N	o:10091619:29
Project Name:	160801 EVERGREEN		Lab Number:	L1630671
Project Number:	160801		Report Date:	10/09/16
		SAMPLE RESULTS		
Lab ID:	L1630671-01		Date Collected:	09/27/16 15:00
Client ID:	MW-6		Date Received:	09/28/16
Sample Location:	NEWBURYPORT		Field Prep:	Not Specified
Matrix:	Dw			
Analytical Method:	16,524.2			
Analytical Date:	10/03/16 19:36			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - We	stborough Lab					
Dichlorodifluoromethane	ND		ug/l	0.50		1
Chloromethane	ND		ug/l	0.50		1
Vinyl chloride	ND		ug/l	0.50		1
Bromomethane	ND		ug/l	0.50		1
Chloroethane	ND		ug/l	0.50		1
Trichlorofluoromethane	ND		ug/l	0.50		1
1,1-Dichloroethene	ND		ug/l	0.50		1
Methylene chloride	ND		ug/l	0.50		1
Methyl tert butyl ether	ND		ug/l	0.50		1
trans-1,2-Dichloroethene	ND		ug/l	0.50		1
1,1-Dichloroethane	ND		ug/l	0.50		1
2,2-Dichloropropane	ND		ug/l	0.50		1
cis-1,2-Dichloroethene	ND		ug/l	0.50		1
Chloroform	ND		ug/l	0.50		1
Bromochloromethane	ND		ug/l	0.50		1
1,1,1-Trichloroethane	ND		ug/l	0.50		1
1,1-Dichloropropene	ND		ug/l	0.50		1
Carbon tetrachloride	ND		ug/l	0.50		1
1,2-Dichloroethane	ND		ug/l	0.50		1
Benzene	ND		ug/l	0.50		1
Trichloroethene	ND		ug/l	0.50		1
1,2-Dichloropropane	ND		ug/l	0.50		1
Bromodichloromethane	ND		ug/l	0.50		1
Dibromomethane	ND		ug/l	0.50		1
cis-1,3-Dichloropropene	ND		ug/l	0.50		1
Toluene	ND		ug/l	0.50		1
trans-1,3-Dichloropropene	ND		ug/l	0.50		1
1,1,2-Trichloroethane	ND		ug/l	0.50		1
1,3-Dichloropropane	ND		ug/l	0.50		1
Tetrachloroethene	ND		ug/l	0.50		1



Project Number:160801Report Date:10/09/16SAMPLE RESULTSDate Collected:09/27/16 15:00Lab ID:L1630671-01Date Received:09/27/16 15:00Client ID:MW-6Date Received:09/28/16						ç	Serial_N	p:10091619:29
Lab ID: L1630671-01 Gient ID: MW-6 Sample Location: NEWBURYPORT Parameter Result view Value Value Value Received Not Specified Parameter Result view Value Va	Project Name:	160801 EVERGREEN				Lab Nu	mber:	L1630671
Lab ID: L1630671-01 Gient ID: MW-6 Sample Location: NEWBURYPORT Parameter Result view Value Value Value Received Not Specified Parameter Result view Value Va	Project Number:	160801				Report	Date:	10/09/16
Client DicensionMW-6 NEUBURYPORRateQuifierDataResOptionOptionOptionParametorRotoQuifierUnitoRotoQuitoRoto		100001	SAMP		6	Nopert	24101	10/03/10
Volatile Organics by GC/MS - Westborough Lab Dibromochame ND ug/l 0.50 - 1 1.2-Dibromothame ND ug/l 0.50 - 1 1.1.2-Dibromothame ND ug/l 0.50 - 1 Chioroberzene ND ug/l 0.50 - 1 Litybenzene ND ug/l 0.50 - 1 p/m-Xylene ND ug/l 0.50 - 1 oxylene ND ug/l 0.50 - 1 Styrene ND ug/l 0.50 - 1 Bromoform ND ug/l 0.50 - 1 1.1.2.2-Trichhoropropane ND ug/l 0.50 - 1 1.2.3-Trichhoropropane ND ug/l 0.50 - 1 1.2.3-Trichhoropropane ND ug/l 0.50 - 1 1.3.5-Trimethylbenzene ND ug/l 0.50 <td< td=""><td>Lab ID: Client ID: Sample Location:</td><td>MW-6</td><td></td><td></td><td></td><td>Date Rec</td><td>eived:</td><td>09/28/16</td></td<>	Lab ID: Client ID: Sample Location:	MW-6				Date Rec	eived:	09/28/16
Dibromochoomethane ND ug/l 0.50 1 L2-Dibromochoomethane ND ug/l 0.50 1 Chlorobenzone ND ug/l 0.50 1 L1.1.2-Totrachloroethane ND ug/l 0.50 1 Ethybanzane ND ug/l 0.50 1 orXylene ND ug/l 0.50 1 orXylene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Isopropylenzene ND ug/l 0.50 1 1.2.2-Trichloropropane ND ug/l 0.50 1 1.2.2-Trichloropropane ND ug/l 0.50 1 1.3.2-Trimethybenzene ND ug/l 0.50 1 1.3.4-	Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
J.2-Ditromesthane ND ug1 0.50 - 1 Chlorobenzane ND ug1 0.50 - 1 1,1,1,2-Tettachloroethane ND ug1 0.50 - 1 Ethylbenzane ND ug1 0.50 - 1 pm-Xylene ND ug1 0.50 - 1 o-Xylene ND ug1 0.50 - 1 Styrene ND ug1 0.50 - 1 Styrene ND ug1 0.50 - 1 Isopropylbenzene ND ug1 0.50 - 1 1,2.2-Tetchloroethane ND ug1 0.50 - 1 1,2.2-Tetchloroptopane ND ug1 0.50 - 1 1,2.2-Tetchloroptopane ND ug1 0.50 - 1 1,2.2-Tetchloroptopane ND ug1 0.50 - 1 1,3.5-Trimethybenzene	Volatile Organics b	y GC/MS - Westborough	Lab					
J.2-Ditromesthane ND ug1 0.50 - 1 Chlorobenzane ND ug1 0.50 - 1 1,1,1,2-Tettachloroethane ND ug1 0.50 - 1 Ethylbenzane ND ug1 0.50 - 1 pm-Xylene ND ug1 0.50 - 1 o-Xylene ND ug1 0.50 - 1 Styrene ND ug1 0.50 - 1 Styrene ND ug1 0.50 - 1 Isopropylbenzene ND ug1 0.50 - 1 1,2.2-Tetchloroethane ND ug1 0.50 - 1 1,2.2-Tetchloroptopane ND ug1 0.50 - 1 1,2.2-Tetchloroptopane ND ug1 0.50 - 1 1,2.2-Tetchloroptopane ND ug1 0.50 - 1 1,3.5-Trimethybenzene	Dibromochloromethane		ND		ua/l	0.50		1
ND ug/l 0.50 - 1 1,1,1,2-Tetrachloroethane ND ug/l 0.50 - 1 Ethylenzene ND ug/l 0.50 - 1 p/m-Xylene ND ug/l 0.50 - 1 Syrene ND ug/l 0.50 - 1 1,2,2-Trichloropropane ND ug/l 0.50 - 1 1,3,5-Trinethylenzene ND ug/l 0.50 - 1 1,3,5-Trinethylenzene ND ug/l 0.50 - 1 -Chlorotoluene ND ug/l 0.50	1.2-Dibromoethane		ND			0.50		1
ND ug/l 0.50 - 1 Ethylbenzene ND ug/l 0.50 1 pm-Xylene ND ug/l 0.50 1 oXylene ND ug/l 0.50 1 Styrane ND ug/l 0.50 1 Bopropybenzene ND ug/l 0.50 1 Styrane ND ug/l 0.50 1 1,2,2-Trichloropropane ND ug/l 0.50 1 Xylenes, Total' ND ug/l 0.50 1 1,3.5-Trimethylbenzene ND ug/l 0.50 1 0-Chlorotoluene ND ug/l 0.50 1 1,2.4-Trimethylbenzene ND ug/l 0.50								
Ethylbenzene ND ug/l 0.50 1 p/m-Xylene ND ug/l 0.50 1 o-Xylene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Isopropylbenzene ND ug/l 0.50 1 Isopropylbenzene ND ug/l 0.50 1 1.1,2,2-Tetrachloroethane ND ug/l 0.50 1 1.2,3-Trichloropropane ND ug/l 0.50 1 1.2,3-Trichloropropane ND ug/l 0.50 1 1.3,2-Trichloropropane ND ug/l 0.50 1 1.3,5-Trimethylbenzene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 1.2,4-Trinethylbenzene ND ug/l 0.50 1 <		9						
Jm. Xylene ND ug/l 0.50 - 1 o-Xylene ND ug/l 0.50 - 1 Styrene ND ug/l 0.50 - 1 Styrene ND ug/l 0.50 - 1 Isopropylbenzene ND ug/l 0.50 - 1 Bromoform ND ug/l 0.50 - 1 1,1,2,2-Tetrachloroethane ND ug/l 0.50 - 1 1,2,3-Trichloropropane ND ug/l 0.50 - 1 1,2,3-Trinethylbenzene ND ug/l 0.50 - 1 1,3,5-Trimethylbenzene ND ug/l 0.50 - 1 1,3,5-Trimethylbenzene ND ug/l 0.50 - 1 1,3,5-Trimethylbenzene ND ug/l 0.50 - 1 1,2,4-Trimethylbenzene ND ug/l 0.50 - 1 1,								
o-Xylene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Isopropylenzene ND ug/l 0.50 1 Bromoform ND ug/l 0.50 1 1,1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,3-Trichloropropane ND ug/l 0.50 1 1,2,3-Trichloropropane ND ug/l 0.50 1 1,2,3-Trichloropropane ND ug/l 0.50 1 1,3-Trimethylbenzene ND ug/l 0.50 1 1,3-Trimethylbenzene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 p-Isopropyltoluene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1			ND					1
Syrene ND ug/l 0.50 1 Isopropylbenzene ND ug/l 0.50 1 Bromotorm ND ug/l 0.50 1 1,1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Trichloropropane ND ug/l 0.50 1 1,2,3-Trinehrylbenzene ND ug/l 0.50 1 1,3-Trimethrylbenzene ND ug/l 0.50 1 0-Chlorotoluene ND ug/l 0.50 1 1,2-Trimethrylbenzene ND ug/l 0.50 1 1,2-Trimethrylbenzene ND ug/l 0.50			ND					1
IsopropylbenzeneNDug/l0.501BromoformNDug/l0.5011,1,2,2-TetrachloroethaneNDug/l0.5011,2,3-TrichloropropaneNDug/l0.501Xylenes, Total'NDug/l0.501NPropylbenzeneNDug/l0.501BromobenzeneNDug/l0.5011,3-TrinethylbenzeneNDug/l0.5011,3-TrinethylbenzeneNDug/l0.5011,3-TrinethylbenzeneNDug/l0.5011,2-ChlorotolueneNDug/l0.5011,2-TrinethylbenzeneNDug/l0.5011,2-TrinethylbenzeneNDug/l0.5011,2-ChlorotolueneNDug/l0.5011,2-TrinethylbenzeneNDug/l0.5011,2-TrinethylbenzeneNDug/l0.5011,3-DichlorobenzeneNDug/l0.5011,2-DichlorobenzeneNDug/l0.5011,2-DichlorobenzeneNDug/l0.5011,2-DichlorobenzeneNDug/l0.5011,2-DichlorobenzeneNDug/l0.5011,2-DichlorobenzeneNDug/l			ND			0.50		1
Bromoform ND ug/1 0.50 1 1,1,2,2-Tetrachloroethane ND ug/1 0.50 1 1,2,2-Trichloropropane ND ug/1 0.50 1 1,2,3-Trichloropropane ND ug/1 0.50 1 Xylenes, Total' ND ug/1 0.50 1 Propylbenzene ND ug/1 0.50 1 1,3-Trimethylbenzene ND ug/1 0.50 1 1,3-Trimethylbenzene ND ug/1 0.50 1 1,3-Trimethylbenzene ND ug/1 0.50 1 1,2-Trimethylbenzene ND ug/1 0.50 1 1,2-A-Trimethylbenzene ND ug/1 0.50 1 1,2-A-Trimethylbenzene ND ug/1 0.50 1 1,3-Dichlorobenzene ND ug/1 0.50	Isopropylbenzene		ND			0.50		1
1,1,2.2-Tetrachloroethane ND ug/l 0.50 1 1,2,3-Trichloropropane ND ug/l 0.50 1 Xylenes, Total' ND ug/l 0.50 1 n-Propylbenzene ND ug/l 0.50 1 Bromobenzene ND ug/l 0.50 1 1,3.5-Trimethylbenzene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 1,2.4-Trimethylbenzene ND ug/l 0.50 1 1,2.4-Trimethylbenzene ND ug/l 0.50 1 1,3.9-Chlorobenzene ND ug/l 0.50 1 1,3.9-Chlorobenzene ND ug/l 0.50 1 1,4.9-Chlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 <t< td=""><td>Bromoform</td><td></td><td>ND</td><td></td><td></td><td>0.50</td><td></td><td>1</td></t<>	Bromoform		ND			0.50		1
1,2,3-Trichloropropane ND ug/l 0.50 1 Xylenes, Total ¹ ND ug/l 0.50 1 n-Propylbenzene ND ug/l 0.50 1 Bronobenzene ND ug/l 0.50 1 1,3,5-Trimethylbenzene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1<	1,1,2,2-Tetrachloroethane	9	ND			0.50		1
Xylenes, Total' ND ug/l 0.50 1 n-Propylbenzene ND ug/l 0.50 1 Bromobenzene ND ug/l 0.50 1 1,3.5-Trimethylbenzene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1	1,2,3-Trichloropropane		ND			0.50		1
Bromobenzene ND ug/l 0.50 1 1,3,5-Trimethylbenzene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 tert-Butylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 </td <td>Xylenes, Total¹</td> <td></td> <td>ND</td> <td></td> <td></td> <td>0.50</td> <td></td> <td>1</td>	Xylenes, Total ¹		ND			0.50		1
1,3,5-Trimethylbenzene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 tert-Butylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 p-Isopropyltoluene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1	n-Propylbenzene		ND		ug/l	0.50		1
o-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 tert-Butylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 p-Isopropyltoluene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1	Bromobenzene		ND		ug/l	0.50		1
p-Chlorotoluene ND ug/l 0.50 1 tert-Butylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 p-Isopropyltoluene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-A-Trichlorobenzene ND ug/l 0.50 1	1,3,5-Trimethylbenzene		ND		ug/l	0.50		1
tert-Butylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 p-Isopropyltoluene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-4-Trichlorobenzene ND ug/l 0.50	o-Chlorotoluene		ND		ug/l	0.50		1
1,2,4-Trimethylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 p-Isopropyltoluene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50	p-Chlorotoluene		ND		ug/l	0.50		1
sec-Butylbenzene ND ug/l 0.50 1 p-Isopropyltoluene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 n-Butylbenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dibromo-3-chloropropane ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1	tert-Butylbenzene		ND		ug/l	0.50		1
p-lsopropyltoluene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 n-Butylbenzene ND ug/l 0.50 1 n-Butylbenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dibromo-3-chloropropane ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	1,2,4-Trimethylbenzene		ND		ug/l	0.50		1
1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 n-Butylbenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	sec-Butylbenzene		ND		ug/l	0.50		1
1,4-Dichlorobenzene ND ug/l 0.50 1 n-Butylbenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-A-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	p-lsopropyltoluene		ND		ug/l	0.50		1
n-Butylbenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dibromo-3-chloropropane ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	1,3-Dichlorobenzene		ND		ug/l	0.50		1
ND ug/l 0.50 1 1,2-Dibromo-3-chloropropane ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	1,4-Dichlorobenzene		ND		ug/l	0.50		1
1,2-Dibromo-3-chloropropane ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	n-Butylbenzene		ND		ug/l	0.50		1
1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	1,2-Dichlorobenzene		ND		ug/l	0.50		1
HexachlorobutadieneNDug/l0.501NaphthaleneNDug/l0.501	1,2-Dibromo-3-chloroprop	bane	ND		ug/l	0.50		1
Naphthalene ND ug/I 0.50 1	1,2,4-Trichlorobenzene		ND		ug/l	0.50		1
	Hexachlorobutadiene		ND		ug/l	0.50		1
1,2,3-Trichlorobenzene ND ug/l 0.50 1	Naphthalene		ND		ug/l	0.50		1
	1,2,3-Trichlorobenzene		ND		ug/l	0.50		1

			Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	
1,2-Dichlorobenzene-d4	112		80-120	
4-Bromofluorobenzene	85		80-120	



			Serial_N	o:10091619:29
Project Name:	160801 EVERGREEN		Lab Number:	L1630671
Project Number:	160801		Report Date:	10/09/16
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location: Matrix: Analytical Method: Analytical Date: Analyst:	L1630671-02 IW-1 NEWBURYPORT Dw 16,524.2 10/03/16 20:40 MM		Date Collected: Date Received: Field Prep:	09/27/16 15:40 09/28/16 Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
/olatile Organics by GC/MS - Westboroug	lh Lab					
Dichlorodifluoromethane	ND		ug/l	0.50		1
Chloromethane	ND		ug/l	0.50		1
/inyl chloride	ND		ug/l	0.50		1
Bromomethane	ND		ug/l	0.50		1
Chloroethane	ND		ug/l	0.50		1
Trichlorofluoromethane	ND		ug/l	0.50		1
I,1-Dichloroethene	ND		ug/l	0.50		1
Methylene chloride	ND		ug/l	0.50		1
Methyl tert butyl ether	ND		ug/l	0.50		1
rans-1,2-Dichloroethene	ND		ug/l	0.50		1
I,1-Dichloroethane	ND		ug/l	0.50		1
2,2-Dichloropropane	ND		ug/l	0.50		1
sis-1,2-Dichloroethene	ND		ug/l	0.50		1
Chloroform	ND		ug/l	0.50		1
Bromochloromethane	ND		ug/l	0.50		1
I,1,1-Trichloroethane	ND		ug/l	0.50		1
I,1-Dichloropropene	ND		ug/l	0.50		1
Carbon tetrachloride	ND		ug/l	0.50		1
I,2-Dichloroethane	ND		ug/l	0.50		1
Benzene	ND		ug/l	0.50		1
Frichloroethene	ND		ug/l	0.50		1
,2-Dichloropropane	ND		ug/l	0.50		1
Bromodichloromethane	ND		ug/l	0.50		1
Dibromomethane	ND		ug/l	0.50		1
cis-1,3-Dichloropropene	ND		ug/l	0.50		1
Foluene	ND		ug/l	0.50		1
rans-1,3-Dichloropropene	ND		ug/l	0.50		1
I,1,2-Trichloroethane	ND		ug/l	0.50		1
1,3-Dichloropropane	ND		ug/l	0.50		1
Fetrachloroethene	ND		ug/l	0.50		1



Project Number:160801Report Date:10/09/16SAMPLE RESULTSDate Collected:09/27/16 15:40Lab ID:IW-1Date Received:09/28/16						ç	Serial_N	p:10091619:29
SAMPLE RESULTSLab ID: Lot 1630671-02IL 1630671-02Date Calces/ver ParametryIDate Calces/ver<	Project Name:	160801 EVERGREEN				Lab Nu	mber:	L1630671
SAMPLE RESULTSLab ID: Lot 1630671-02IL 1630671-02Date Calces/ver ParametryIDate Calces/ver<	Project Number:	160801				Report	Date:	10/09/16
Client ID: Sample LocationIW-1 NEWBURYPORTRate QuiffierData Provide Provide Provide Not SpecifiedDispecified Not SpecifiedParametorResuQuiffierQuiffierQuifQuitQu			SAMP	LE RESULTS	5			10/03/10
Volatile Organics by CC/MS - Westborough Lab Dibromochhoromethane ND ug/l 0.50 1 1.2-Dibromochhane ND ug/l 0.50 1 1.1.1.2-Tatrachioroethane ND ug/l 0.50 1 1.1.1.2-Tatrachioroethane ND ug/l 0.50 1 Einybarszne ND ug/l 0.50 1 Einybarszne ND ug/l 0.50 1 o-Xylene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Borporybanzene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 1.2.2-Tricharbioroethane ND ug/l 0.50 1 1.2.2-Tricharbioroethane ND ug/l 0.50 1 1.3.5-Trimethybenzene ND ug/l	Lab ID: Client ID: Sample Location:	IW-1				Date Rec	eived:	09/28/16
ND ug/l 0.50 1 1.2-Dibromochane ND ug/l 0.50 1 Chiorobanzane ND ug/l 0.50 1 1.1.1.2-Tatrabiorosthane ND ug/l 0.50 1 Ethybenzone ND ug/l 0.50 1 coxylene ND ug/l 0.50 1 coxylene ND ug/l 0.50 1 stopropylenzane ND ug/l 0.50 1 stopropylenzane ND ug/l 0.50 1 stopropylenzane ND ug/l 0.50 1 1.2.2-Tertabiorosthane	Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
J.2-Dibromeethane ND ug1 0.50 - 1 Chlorobenzene ND ug1 0.50 - 1 1.1.1.2-Tetrachloroethane ND ug1 0.50 - 1 Ehylbenzene ND ug1 0.50 - 1 pm-Xylane ND ug1 0.50 - 1 o-Xylane ND ug1 0.50 - 1 Syrene ND ug1 0.50 - 1 Styrene ND ug1 0.50 - 1 Styrene ND ug1 0.50 - 1 1.2.2-Tetrachloroethane ND ug1 0.50 - 1 1.2.2-Trichloropropane ND ug1 0.50 - 1 1.3.5-Trimethylbenzene ND ug1 0.50 - 1 1.3.5-Trimethylbenzene ND ug1 0.50 - 1 1.3.5-Trimethylbenzene <	Volatile Organics b	y GC/MS - Westborough	Lab					
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Naphthalene ND ug/l 0.50 1								
1,2,3-Trichlorobenzene ND ug/l 0.50 1								
	1,2,3-Trichlorobenzene		ND		ug/l	0.50		1

			Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	
1,2-Dichlorobenzene-d4	107		80-120	
4-Bromofluorobenzene	86		80-120	



			Serial_No	p:10091619:29
Project Name:	160801 EVERGREEN	Lat	b Number:	L1630671
Project Number:	160801	Rej	port Date:	10/09/16
		SAMPLE RESULTS		
Lab ID: Client ID:	L1630671-03 MW-7	Date	e Collected: e Received:	09/27/16 16:30 09/28/16
Sample Location: Matrix: Analytical Method: Analytical Date: Analyst:	NEWBURYPORT Dw 16,524.2 10/03/16 21:45 MM	Field	d Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westb	orough Lab					
Dichlorodifluoromethane	ND		ug/l	0.50		1
Chloromethane	ND		ug/l	0.50		1
Vinyl chloride	ND		ug/l	0.50		1
Bromomethane	ND		ug/l	0.50		1
Chloroethane	ND		ug/l	0.50		1
Trichlorofluoromethane	ND		ug/l	0.50		1
1,1-Dichloroethene	ND		ug/l	0.50		1
Methylene chloride	ND		ug/l	0.50		1
Methyl tert butyl ether	ND		ug/l	0.50		1
trans-1,2-Dichloroethene	ND		ug/l	0.50		1
1,1-Dichloroethane	ND		ug/l	0.50		1
2,2-Dichloropropane	ND		ug/l	0.50		1
cis-1,2-Dichloroethene	ND		ug/l	0.50		1
Chloroform	ND		ug/l	0.50		1
Bromochloromethane	ND		ug/l	0.50		1
1,1,1-Trichloroethane	ND		ug/l	0.50		1
1,1-Dichloropropene	ND		ug/l	0.50		1
Carbon tetrachloride	ND		ug/l	0.50		1
1,2-Dichloroethane	ND		ug/l	0.50		1
Benzene	ND		ug/l	0.50		1
Trichloroethene	ND		ug/l	0.50		1
1,2-Dichloropropane	ND		ug/l	0.50		1
Bromodichloromethane	ND		ug/l	0.50		1
Dibromomethane	ND		ug/l	0.50		1
cis-1,3-Dichloropropene	ND		ug/l	0.50		1
Toluene	ND		ug/l	0.50		1
trans-1,3-Dichloropropene	ND		ug/l	0.50		1
1,1,2-Trichloroethane	ND		ug/l	0.50		1
1,3-Dichloropropane	ND		ug/l	0.50		1
Tetrachloroethene	ND		ug/l	0.50		1



Project Number: 160801 Report Date: 10/09/16 SAMPLE RESULTS						ç	Serial_N	p:10091619:29	
SAMPLE RESULTS Note College Lab ID: L1630671-03 Single Location: Note Sole Sole Sole Sole Sole Sole Sole Sol	Project Name:	160801 EVERGREEN				Lab Nu	mber:	L1630671	
SAMPLE RESULTS Note College Lab ID: L1630671-03 Single Location: Note Sole Sole Sole Sole Sole Sole Sole Sol	Project Number:	160801				Report	Date:	10/09/16	
Client DicensionMW-7 NEUBURYPORReadOutifierData ResourceOg/28/15 Ind SpecifiedParametorReadOutifierOutifierReadOutifierRead<		100001	SAMPI		6		24101	10/03/10	
Sample Location: NEWBURYPORT Field Pro: Not Specified Parametr Realt Qualifier Not Realt Not Realt Not Not <	Lab ID:								
ParameterResultQuillierUnitsRLMDLDitkion PactorVolatile Organics by GC/MS - Westborough LabDibromochioromethaneNDug/l0.5011.2-DibromochinareNDug/l0.501ChiordboraneNDug/l0.5011.1.1.2-TeitachioronthaneNDug/l0.501EhyberzeneNDug/l0.501o/SyleneNDug/l0.501o/SyleneNDug/l0.501StyroneNDug/l0.501EsprosylenzeneNDug/l0.501StyroneNDug/l0.5011.1.2-TeitachioronthaneNDug/l0.501StyroneNDug/l0.501StyroneNDug/l0.5011.1.2-TeitachioronthaneNDug/l0.5011.1.2-TeitachioronthaneNDug/l0.5011.1.2-TeitachioronthaneNDug/l0.5011.1.2-TeitachioronthaneNDug/l0.5011.3.5-TimothyberzeneNDug/l0.5011.3.5-TimothyberzeneNDug/l0.5011.3.5-TimothyberzeneNDug/l0.5011.3.5-Timot									
Volatile Organics by GC/MS - Westborough Lab Dibromochloomethane ND ug/l 0.50 1 1.2-Dibromochloomethane ND ug/l 0.50 1 1.1-Dibromochloomethane ND ug/l 0.50 1 1.1.1.2-Tetrachloroethane ND ug/l 0.50 1 Ethylbenzene ND ug/l 0.50 1 p/m-Xylene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 1.2.2-Trichloropropane ND ug/l 0.50 1 1.2.3-Trichloropropane ND ug/l 0.50 1 1.2.3-Trichloropropane ND ug/l 0.50 1 ND ug/l 0.50 <td< th=""><th>-</th><th></th><th>Result</th><th>Qualifier</th><th>Units</th><th></th><th>-</th><th>-</th><th></th></td<>	-		Result	Qualifier	Units		-	-	
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L2-Ditromosthane ND ug/l 0.50 - 1 Chlorobenzane ND ug/l 0.50 - 1 L1,1,2-Tatrachlorosthane ND ug/l 0.50 - 1 Ethylbenzane ND ug/l 0.50 - 1 pm-Xylene ND ug/l 0.50 - 1 o-Xylene ND ug/l 0.50 - 1 Syrene ND ug/l 0.50 - 1 Storenorm ND ug/l 0.50 - 1 Storenorm ND ug/l 0.50 - 1 1.2.2-Trichloropropane ND ug/l 0.50 - 1 1.2.2-Trichloropropane ND ug/l 0.50 - 1 1.3.2-Trinethybenzene ND ug/l 0.50 - 1 1.3.2-Trinethybenzene ND ug/l 0.50 - 1 1.2.2-Trinethybenzene <td>Volatile Organics b</td> <td></td> <td>Lab</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Volatile Organics b		Lab						
ND ug1 0.50 - 1 1,1,1,2-Tetrachloroethane ND ug1 0.50 - 1 Ethylkenzene ND ug1 0.50 - 1 p/m-Xylene ND ug1 0.50 - 1 o-Xylene ND ug1 0.50 - 1 Skyrane ND ug1 0.50 - 1 1,2,3-Trichloropropane ND ug1 0.50 - 1 1,2,3-Trichloropropane ND ug1 0.50 - 1 1,2,3-Trichloropropane ND ug1 0.50 - 1 1,3,5-Trimethylbenzene ND ug1 0.50	Dibromochloromethane		ND		ug/l	0.50		1	
ND ug/l 0.50 - 1 Ethylbenzene ND ug/l 0.50 - 1 p/m.Xjene ND ug/l 0.50 - 1 o.Xjene ND ug/l 0.50 - 1 o.Xjene ND ug/l 0.50 - 1 Isopropibenzene ND ug/l 0.50 - 1 Bromoform ND ug/l 0.50 - 1 1.1.2.2-Tetrischloroethane ND ug/l 0.50 - 1 1.2.3-Triichloropropane ND ug/l 0.50 - 1 1.2.3-Triinethylbenzene ND ug/l 0.50 - 1 1.3.5-Triinethylbenzene	1,2-Dibromoethane		ND		ug/l	0.50		1	
Ind ug/l 0.50 1 p/m-Xylene ND ug/l 0.50 1 o-Xylene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Isopropylenzene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 1.1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Trichloropropane ND ug/l 0.50 1 1,2,2-Trichloropropane ND ug/l 0.50 1 1,3-Trimethylbenzene ND ug/l 0.50 1 0-Chlorotoluene <t< td=""><td>Chlorobenzene</td><td></td><td>ND</td><td></td><td>ug/l</td><td>0.50</td><td></td><td>1</td><td></td></t<>	Chlorobenzene		ND		ug/l	0.50		1	
pm-Xylene ND ug/l 0.50 1 o-Xylene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Isopropylbenzene ND ug/l 0.50 1 Brondorm ND ug/l 0.50 1 1,1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,3-Trichloroppane ND ug/l 0.50 1 1,3-Trimethylbenzene ND ug/l 0.50 1 1,2-A Trimethylbenzene ND ug/l 0.50 1 1,2-A Trimethylbenzene ND ug/l 0.50 1 <tr< td=""><td>1,1,1,2-Tetrachloroethane</td><td>9</td><td>ND</td><td></td><td>ug/l</td><td>0.50</td><td></td><td>1</td><td></td></tr<>	1,1,1,2-Tetrachloroethane	9	ND		ug/l	0.50		1	
o-Xylene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Isopropylbenzene ND ug/l 0.50 1 Bromdorm ND ug/l 0.50 1 1,1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,3-Trichloropropane ND ug/l 0.50 1 1,2,3-Trichloropropane ND ug/l 0.50 1 1,2,3-Trichloropropane ND ug/l 0.50 1 1,3-Trimethylbenzene ND ug/l 0.50 1 1,3-Trimethylbenzene ND ug/l 0.50 1 -Chlorotoluene ND ug/l 0.50 1 -Storopyltoluene ND ug/l 0.50 1 -L2-Trimethylbenzene ND ug/l 0.50 1	Ethylbenzene		ND		ug/l	0.50		1	
Styrene ND ug/l 0.50 1 Isopropylbenzene ND ug/l 0.50 1 Bromoform ND ug/l 0.50 1 1,1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Trichloropropane ND ug/l 0.50 1 1,2,3-Trinethylbenzene ND ug/l 0.50 1 1,3-S-Trimethylbenzene ND ug/l 0.50 1 -Chlorotoluene ND ug/l 0.50 1 -So-torotoluene ND ug/l 0.50 1 1,2-Chlorotoluene ND ug/l 0.50 1 </td <td>p/m-Xylene</td> <td></td> <td>ND</td> <td></td> <td>ug/l</td> <td>0.50</td> <td></td> <td>1</td> <td></td>	p/m-Xylene		ND		ug/l	0.50		1	
Isportpylbenzene ND ug/l 0.50 1 Bromoform ND ug/l 0.50 1 1,1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Trichloropropane ND ug/l 0.50 1 Xylenes, Total ¹ ND ug/l 0.50 1 NPropylbenzene ND ug/l 0.50 1 Bromobenzene ND ug/l 0.50 1 1,3-5-Trimethylbenzene ND ug/l 0.50 1 c-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 1,2-Trimethylbenzene ND ug/l 0.50 1 1,2-Dichtoroblenzene ND ug/l 0.50 1	o-Xylene		ND		ug/l	0.50		1	
Bromoform ND ug/l 0.50 1 1,1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,3-Trichloropropane ND ug/l 0.50 1 Xylenes, Total' ND ug/l 0.50 1 n-Propylbenzene ND ug/l 0.50 1 1,3-Trimethylbenzene ND ug/l 0.50 1 1,2-A-Trimethylbenzene ND ug/l 0.50 1 1,2-A-Trimethylbenzene ND ug/l 0.50 1 1,2-A-Trimethylbenzene ND ug/l 0.50 <td>Styrene</td> <td></td> <td>ND</td> <td></td> <td>ug/l</td> <td>0.50</td> <td></td> <td>1</td> <td></td>	Styrene		ND		ug/l	0.50		1	
1,1,2.2-Tetrachloroethane ND ug/l 0.50 1 1,2,3-Tichloropropane ND ug/l 0.50 1 Xylenes, Total ¹ ND ug/l 0.50 1 n-Propylbenzene ND ug/l 0.50 1 Bromobenzene ND ug/l 0.50 1 1,3.5-Trimethylbenzene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 1,2.4-Trimethylbenzene ND ug/l 0.50 1 1,2.4-Trimethylbenzene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 <t< td=""><td>Isopropylbenzene</td><td></td><td>ND</td><td></td><td>ug/l</td><td>0.50</td><td></td><td>1</td><td></td></t<>	Isopropylbenzene		ND		ug/l	0.50		1	
1.2.3-Trichloropropane ND ug/l 0.50 1 Xylenes, Total' ND ug/l 0.50 1 n-Propylbenzene ND ug/l 0.50 1 Bromobenzene ND ug/l 0.50 1 1.3.5-Trimethylbenzene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 tert-Butylbenzene ND ug/l 0.50 1 1.2.4-Trimethylbenzene ND ug/l 0.50 1 1.3.5-Dichlorobenzene ND ug/l 0.50 1 1.3-Dichlorobenzene ND ug/l 0.50 1 1.4-Dichlorobenzene ND ug/l 0.50 1 1.4-Dichlorobenzene ND ug/l 0.50 1 1.2-Dichlorobenzene ND ug/l 0.50 1	Bromoform		ND		ug/l	0.50		1	
Xylenes, Total ND ug/l 0.50 1 n-Propylbenzene ND ug/l 0.50 1 Bromobenzene ND ug/l 0.50 1 Bromobenzene ND ug/l 0.50 1 1,3,5-Trimethylbenzene ND ug/l 0.50 1 o-Chiorotoluene ND ug/l 0.50 1 p-Chiorotoluene ND ug/l 0.50 1 tert-Butylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 <	1,1,2,2-Tetrachloroethane	9	ND		ug/l	0.50		1	
n-Propylbenzene ND ug/l 0.50 1 Bromobenzene ND ug/l 0.50 1 1,3,5-Trimethylbenzene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1	1,2,3-Trichloropropane		ND		ug/l	0.50		1	
Bromobenzene ND ug/l 0.50 1 1,3,5-Trimethylbenzene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 tert-Butylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 p-Isopropyltoluene 1.8 ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1	Xylenes, Total ¹		ND		ug/l	0.50		1	
1,3,5-Trimethylbenzene ND ug/l 0.50 1 o-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 tert-Butylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 <td>n-Propylbenzene</td> <td></td> <td>ND</td> <td></td> <td>ug/l</td> <td>0.50</td> <td></td> <td>1</td> <td></td>	n-Propylbenzene		ND		ug/l	0.50		1	
o-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 tert-Butylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 p-Isopropyltoluene 1.8 ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1	Bromobenzene		ND		ug/l	0.50		1	
p-Chlorotoluene ND ug/l 0.50 1 tert-Butylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 p-Isopropyltoluene 1.8 ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-A-Trichlorobenzene ND ug/l 0.50 <	1,3,5-Trimethylbenzene		ND		ug/l	0.50		1	
tert-Butylbenzene ND ug/l 0.50 1 1,2,4-Trimethylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 p-Isopropyltoluene 1.8 ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50	o-Chlorotoluene		ND		ug/l	0.50		1	
1,2,4-Trimethylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 p-Isopropyltoluene 1.8 ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dibromo-3-chloropropane ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 <	p-Chlorotoluene		ND		ug/l	0.50		1	
sec-Butylbenzene ND ug/l 0.50 1 p-Isopropyltoluene 1.8 ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 n-Butylbenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	tert-Butylbenzene		ND		ug/l	0.50		1	
p-Isopropyltoluene 1.8 ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 n-Butylbenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-A-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Nphthalene ND ug/l 0.50 1	1,2,4-Trimethylbenzene		ND		ug/l	0.50		1	
1,3-DichlorobenzeneNDug/l0.5011,4-DichlorobenzeneNDug/l0.501n-ButylbenzeneNDug/l0.5011,2-DichlorobenzeneNDug/l0.5011,2-DichlorobenzeneNDug/l0.5011,2-DichlorobenzeneNDug/l0.5011,2-DichlorobenzeneNDug/l0.5011,2-A-TrichlorobenzeneNDug/l0.501HexachlorobutadieneNDug/l0.501NaphthaleneNDug/l0.501	sec-Butylbenzene		ND		ug/l	0.50		1	
1,4-Dichlorobenzene ND ug/l 0.50 1 n-Butylbenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	p-lsopropyltoluene		1.8		ug/l	0.50		1	
n-Butylbenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	1,3-Dichlorobenzene		ND		ug/l	0.50		1	
ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dibromo-3-chloropropane ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	1,4-Dichlorobenzene		ND		ug/l	0.50		1	
ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	n-Butylbenzene		ND		ug/l	0.50		1	
1,2,4-TrichlorobenzeneNDug/l0.501HexachlorobutadieneNDug/l0.501NaphthaleneNDug/l0.501	1,2-Dichlorobenzene		ND		ug/l	0.50		1	
HexachlorobutadieneNDug/l0.501NaphthaleneNDug/l0.501	1,2-Dibromo-3-chloroprop	bane	ND		ug/l	0.50		1	
Naphthalene ND ug/l 0.50 1	1,2,4-Trichlorobenzene		ND		ug/l	0.50		1	
	Hexachlorobutadiene		ND		ug/l	0.50		1	
1,2,3-Trichlorobenzene ND ug/l 0.50 1	Naphthalene		ND		ug/l	0.50		1	
	1,2,3-Trichlorobenzene		ND		ug/l	0.50		1	

		Acceptance						
Surrogate	% Recovery	Qualifier	Criteria					
1,2-Dichlorobenzene-d4	105		80-120					
4-Bromofluorobenzene	85		80-120					



			Serial_N	o:10091619:29
Project Name:	160801 EVERGREEN		Lab Number:	L1630671
Project Number:	160801		Report Date:	10/09/16
		SAMPLE RESULTS		
Lab ID:	L1630671-04		Date Collected:	09/27/16 00:00
Client ID:	TRIP BLANK		Date Received:	09/28/16
Sample Location:	NEWBURYPORT		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	16,524.2			
Analytical Date:	10/06/16 17:34			
Analyst:	GT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westbo	brough Lab					
Dichlorodifluoromethane	ND		ug/l	0.50		1
Chloromethane	ND		ug/l	0.50		1
Vinyl chloride	ND		ug/l	0.50		1
Bromomethane	ND		ug/l	0.50		1
Chloroethane	ND		ug/l	0.50		1
Trichlorofluoromethane	ND		ug/l	0.50		1
1,1-Dichloroethene	ND		ug/l	0.50		1
Methylene chloride	ND		ug/l	0.50		1
Methyl tert butyl ether	ND		ug/l	0.50		1
trans-1,2-Dichloroethene	ND		ug/l	0.50		1
1,1-Dichloroethane	ND		ug/l	0.50		1
2,2-Dichloropropane	ND		ug/l	0.50		1
cis-1,2-Dichloroethene	ND		ug/l	0.50		1
Chloroform	ND		ug/l	0.50		1
Bromochloromethane	ND		ug/l	0.50		1
1,1,1-Trichloroethane	ND		ug/l	0.50		1
1,1-Dichloropropene	ND		ug/l	0.50		1
Carbon tetrachloride	ND		ug/l	0.50		1
1,2-Dichloroethane	ND		ug/l	0.50		1
Benzene	ND		ug/l	0.50		1
Trichloroethene	ND		ug/l	0.50		1
1,2-Dichloropropane	ND		ug/l	0.50		1
Bromodichloromethane	ND		ug/l	0.50		1
Dibromomethane	ND		ug/l	0.50		1
cis-1,3-Dichloropropene	ND		ug/l	0.50		1
Toluene	ND		ug/l	0.50		1
trans-1,3-Dichloropropene	ND		ug/l	0.50		1
1,1,2-Trichloroethane	ND		ug/l	0.50		1
1,3-Dichloropropane	ND		ug/l	0.50		1
Tetrachloroethene	ND		ug/l	0.50		1



Project Number: 160801 Report Date: 10/09/16 SAMPLE RESULTS			Serial_No:10091619:29					
SAMPLE RESULTSSAMPLE RESULTSSAMPLE RESULTSSample LocationSample LocationSamp	Project Name:	160801 EVERGREEN				Lab Nu	mber:	L1630671
SAMPLE RESULTSSAMPLE RESULTSSAMPLE RESULTSSample LocationSample LocationSamp	Project Number:	160801				Report	Date:	10/09/16
Client ID: TRIP BLANK NEWBURY NOV Result Quilier Data Rev: System Parametor Result Quilier Unio Re Mot Mot Mot Mot Dilutor store Parametor Result Quilier Unio Result Mot Quilier Mot	-,		SAMP	LE RESULTS	S			10/00/10
Volatile Organics by GC/MS - Westborough Lab Dibromocharomethane ND ug1 0.50 1 1.2-Dibromocharone ND ug1 0.50 1 1.1.1.2-Totrachloroethane ND ug1 0.50 1 1.1.1.2-Totrachloroethane ND ug1 0.50 1 Ehyblenzene ND ug1 0.50 1 p/m-Xylene ND ug1 0.50 1 oxylene ND ug1 0.50 1 Bromoform ND ug1 0.50 1 1.2.2-Trichloropropane ND ug1 0.50 1 1.3.5-Trimethylenzene ND ug1		TRIP BLANK				Date Rec	eived:	09/28/16
Dibromachiomethane ND ug/l 0.50 1 12-Dibromachiane ND ug/l 0.50 1 Chlorobenzane ND ug/l 0.50 1 1.1.1.2-Tertachloroethane ND ug/l 0.50 1 Ethylbenzane ND ug/l 0.50 1 orXylene ND ug/l 0.50 1 orXylene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 1.2.2-Trichlorophane ND ug/l 0.50 1 1.2.2-Tri	Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
J.2.Ditromosithane ND ug/l 0.50 - 1 Chlorobenzane ND ug/l 0.50 - 1 1,1,1,2.Tetrachlorosithane ND ug/l 0.50 - 1 Ethylbenzane ND ug/l 0.50 - 1 Dir/Svjene ND ug/l 0.50 - 1 Ox/ylene ND ug/l 0.50 - 1 Styrene ND ug/l 0.50 - 1 Styrene ND ug/l 0.50 - 1 Styrene ND ug/l 0.50 - 1 Isopropylenzene ND ug/l 0.50 - 1 I.2.2-Trichloropropane ND ug/l 0.50 - 1 I.2.2-Trichloropropane ND ug/l 0.50 - 1 I.3.5-Trimethylbenzene ND ug/l 0.50 - 1 I.2.4-Trimethylbenzene	Volatile Organics b	y GC/MS - Westborough	Lab					
J.2.Ditromosithane ND ug/l 0.50 - 1 Chlorobenzane ND ug/l 0.50 - 1 1,1,1,2.Tetrachlorosithane ND ug/l 0.50 - 1 Ethylbenzane ND ug/l 0.50 - 1 Dir/Svjene ND ug/l 0.50 - 1 Ox/ylene ND ug/l 0.50 - 1 Styrene ND ug/l 0.50 - 1 Styrene ND ug/l 0.50 - 1 Styrene ND ug/l 0.50 - 1 Isopropylenzene ND ug/l 0.50 - 1 I.2.2-Trichloropropane ND ug/l 0.50 - 1 I.2.2-Trichloropropane ND ug/l 0.50 - 1 I.3.5-Trimethylbenzene ND ug/l 0.50 - 1 I.2.4-Trimethylbenzene	Dibromochloromothono		ND			0.50		1
ND ug1 0.50 - 1 1,1,1,2-Tetrachloroethane ND ug1 0.50 - 1 EttryBenzene ND ug1 0.50 - 1 p/m-Xylene ND ug1 0.50 - 1 o-Xylene ND ug1 0.50 - 1 Styrene ND ug1 0.50 - 1 1,1,2,2-Trinchloropropane ND ug1 0.50 - 1 1,2,3-Trinchloropropane ND ug1 0.50 - 1 1,3,5-Trinethyberzene ND ug1 0.50 - 1 -Stylenzene ND ug1 0.50								
ND ug1 0.50 1 Ethylbenzene ND ug1 0.50 1 p/m-Xylene ND ug1 0.50 1 o-Xylene ND ug1 0.50 1 Styrane ND ug1 0.50 1 Bopropylbenzene ND ug1 0.50 1 Bromoform ND ug1 0.50 1 1,1,2,2-Tetrachloroethane ND ug1 0.50 1 1,2,3-Trichloropropane ND ug1 0.50 1 1,2,3-Trichloropropane ND ug1 0.50 1 1,3-Strimethylbenzene ND ug1 0.50 1 1,3-Strimethylbenzene ND ug1 0.50 1 1,3-Strimethylbenzene ND ug1 0.50 1 1,2-Strimethylbenzene ND								
Introduction ND ug/l 0.50 1 p/m-Xylene ND ug/l 0.50 1 c-Xylene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Isopropybenzene ND ug/l 0.50 1 Isopropybenzene ND ug/l 0.50 1 1.1,2,2-Tetrachloroethane ND ug/l 0.50 1 1.2,3-Trichloropropane ND ug/l 0.50 1 Xjenes, Total' ND ug/l 0.50 1 Strimethybenzene ND ug/l 0.50 1 3.5-Trimethybenzene ND ug/l 0.50 1 1.3-Trimethybenzene ND ug/l 0.50 1 1.2-Hrinethybe		<u></u>						
npm:Xylene ND ug/l 0.50 - 1 o-Xylene ND ug/l 0.50 - 1 Styrene ND ug/l 0.50 - 1 Bromotorm ND ug/l 0.50 - 1 1,1,2,2-Tetrachloroethane ND ug/l 0.50 - 1 1,2,3-Trichloropropane ND ug/l 0.50 - 1 1,2,3-Trimethylbenzene ND ug/l 0.50 - 1 1,3-Trimethylbenzene ND ug/l 0.50 - 1 1,2-Trimethylbenzene ND ug/l 0.50 - 1 1,2-Trimethylbenzene ND ug/l 0.50 - 1 1,2-Trichorobuene <		9			-			
o-Xylene ND ug/l 0.50 1 Styrene ND ug/l 0.50 1 Isopropylbenzene ND ug/l 0.50 1 Bromdorm ND ug/l 0.50 1 1,1,2,2-Tetrachloroethane ND ug/l 0.50 1 1,2,3-Trichloropropane ND ug/l 0.50 1 1,2,3-Trichloropropane ND ug/l 0.50 1 1,2,3-Trinethylbenzene ND ug/l 0.50 1 n-Propylbenzene ND ug/l 0.50 1 1,3-Trimethylbenzene ND ug/l 0.50 1 1,2-A-Trimethylbenzene ND ug/l 0.50 1 1,2-A-Trimethylbenzene ND ug/l 0.50 1 1,2-A-Trimethylbenzene ND ug/l 0.50 1					-			
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Bromoform ND ug/l 0.50 1 1,1,2.2-Tetrachloroethane ND ug/l 0.50 1 1,2.3-Trichloropropane ND ug/l 0.50 1 1,2.3-Trichloropropane ND ug/l 0.50 1 Xylenes, Total' ND ug/l 0.50 1 NPropylbenzene ND ug/l 0.50 1 1,3.5-Trimethylbenzene ND ug/l 0.50 1 1,2.4-Trimethylbenzene ND ug/l 0.50 1 1,2.4-Trimethylbenzene ND ug/l 0.50 1 1,3.2-Dichorobenzene ND ug/l 0.50								
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o-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 p-Chlorotoluene ND ug/l 0.50 1 tert-Butylbenzene ND ug/l 0.50 1 1,2.4-Trimethylbenzene ND ug/l 0.50 1 sec-Butylbenzene ND ug/l 0.50 1 p-Isopropyltoluene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1								
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p-Isopropyltoluene ND ug/l 0.50 1 1,3-Dichlorobenzene ND ug/l 0.50 1 1,4-Dichlorobenzene ND ug/l 0.50 1 n-Butylbenzene ND ug/l 0.50 1 n-Butylbenzene ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-A-Trichlorobenzene ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1					0			
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ND ug/l 0.50 1 1,2-Dichlorobenzene ND ug/l 0.50 1 1,2-Dibromo-3-chloropropane ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1	1,4-Dichlorobenzene				ug/l	0.50		1
ND ug/l 0.50 1 1,2,4-Trichlorobenzene ND ug/l 0.50 1 Hexachlorobutadiene ND ug/l 0.50 1 Naphthalene ND ug/l 0.50 1					ug/l	0.50		1
1,2,4-TrichlorobenzeneNDug/l0.501HexachlorobutadieneNDug/l0.501NaphthaleneNDug/l0.501	1,2-Dichlorobenzene				ug/l	0.50		1
HexachlorobutadieneNDug/l0.501NaphthaleneNDug/l0.501	1,2-Dibromo-3-chloroprop	bane	ND		ug/l	0.50		1
Naphthalene ND ug/I 0.50 1	1,2,4-Trichlorobenzene		ND		ug/l	0.50		1
	Hexachlorobutadiene		ND		ug/l	0.50		1
1,2,3-Trichlorobenzene ND ug/I 0.50 1	Naphthalene		ND		ug/l	0.50		1
	1,2,3-Trichlorobenzene		ND		ug/l	0.50		1

			Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	
1,2-Dichlorobenzene-d4	104		80-120	
4-Bromofluorobenzene	97		80-120	



 Project Name:
 160801 EVERGREEN
 Lab Number:
 L1630671

 Project Number:
 160801
 Report Date:
 10/09/16

Method Blank Analysis Batch Quality Control

Analytical Method:16,524.2Analytical Date:10/06/16 12:07Analyst:GT

arameter	Result	Qualifier	Units	RL	MDL
olatile Organics by GC/MS -	Westborough La	b for samp	e(s): 04	Batch:	WG938561-10
Dichlorodifluoromethane	ND		ug/l	0.50	
Chloromethane	ND		ug/l	0.50	
Vinyl chloride	ND		ug/l	0.50	
Bromomethane	ND		ug/l	0.50	
Chloroethane	ND		ug/l	0.50	
Trichlorofluoromethane	ND		ug/l	0.50	
1,1-Dichloroethene	ND		ug/l	0.50	
Methylene chloride	ND		ug/l	0.50	
Methyl tert butyl ether	ND		ug/l	0.50	
trans-1,2-Dichloroethene	ND		ug/l	0.50	
1,1-Dichloroethane	ND		ug/l	0.50	
2,2-Dichloropropane	ND		ug/l	0.50	
cis-1,2-Dichloroethene	ND		ug/l	0.50	
Chloroform	ND		ug/l	0.50	
Bromochloromethane	ND		ug/l	0.50	
1,1,1-Trichloroethane	ND		ug/l	0.50	
1,1-Dichloropropene	ND		ug/l	0.50	
Carbon tetrachloride	ND		ug/l	0.50	
1,2-Dichloroethane	ND		ug/l	0.50	
Benzene	ND		ug/l	0.50	
Trichloroethene	ND		ug/l	0.50	
1,2-Dichloropropane	ND		ug/l	0.50	
Bromodichloromethane	ND		ug/l	0.50	
Dibromomethane	ND		ug/l	0.50	
cis-1,3-Dichloropropene	ND		ug/l	0.50	
Toluene	ND		ug/l	0.50	
trans-1,3-Dichloropropene	ND		ug/l	0.50	
1,1,2-Trichloroethane	ND		ug/l	0.50	
1,3-Dichloropropane	ND		ug/l	0.50	



 Project Name:
 160801 EVERGREEN
 Lab Number:
 L1630671

 Project Number:
 160801
 Report Date:
 10/09/16

Method Blank Analysis Batch Quality Control

Analytical Method:16,524.2Analytical Date:10/06/16 12:07Analyst:GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS -	Westborough Lab	for sampl	e(s): 04	Batch:	WG938561-10
Tetrachloroethene	ND		ug/l	0.50	
Dibromochloromethane	ND		ug/l	0.50	
1,2-Dibromoethane	ND		ug/l	0.50	
Chlorobenzene	ND		ug/l	0.50	
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	
Ethylbenzene	ND		ug/l	0.50	
p/m-Xylene	ND		ug/l	0.50	
o-Xylene	ND		ug/l	0.50	
Styrene	ND		ug/l	0.50	
Isopropylbenzene	ND		ug/l	0.50	
Bromoform	ND		ug/l	0.50	
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	
1,2,3-Trichloropropane	ND		ug/l	0.50	
Xylenes, Total ¹	ND		ug/l	0.50	
n-Propylbenzene	ND		ug/l	0.50	
Bromobenzene	ND		ug/l	0.50	
1,3,5-Trimethylbenzene	ND		ug/l	0.50	
o-Chlorotoluene	ND		ug/l	0.50	
p-Chlorotoluene	ND		ug/l	0.50	
tert-Butylbenzene	ND		ug/l	0.50	
1,2,4-Trimethylbenzene	ND		ug/l	0.50	
sec-Butylbenzene	ND		ug/l	0.50	
p-Isopropyltoluene	ND		ug/l	0.50	
1,3-Dichlorobenzene	ND		ug/l	0.50	
1,4-Dichlorobenzene	ND		ug/l	0.50	
n-Butylbenzene	ND		ug/l	0.50	
1,2-Dichlorobenzene	ND		ug/l	0.50	
1,2-Dibromo-3-chloropropane	ND		ug/l	0.50	
1,2,4-Trichlorobenzene	ND		ug/l	0.50	



Project Name:	160801 EVERGREEN	Lab Number:	L1630671
Project Number:	160801	Report Date:	10/09/16

Method Blank Analysis Batch Quality Control

Analytical Method:	16,524.2
Analytical Date:	10/06/16 12:07
Analyst:	GT

Parameter	Result	Qualifier	Units	RL	MDL	
Volatile Organics by GC/MS - W	estborough Lal	b for sampl	e(s): 04	Batch:	WG938561-10	
Hexachlorobutadiene	ND		ug/l	0.50		
Naphthalene	ND		ug/l	0.50		
1,2,3-Trichlorobenzene	ND		ug/l	0.50		

			Acceptance	
Surrogate	%Recovery	Qualifier	Criteria	
1.2-Dichlorobenzene-d4	98		80-120	
,				
4-Bromofluorobenzene	96		80-120	



 Project Name:
 160801 EVERGREEN
 Lab Number:
 L1630671

 Project Number:
 160801
 Report Date:
 10/09/16

Method Blank Analysis Batch Quality Control

Analytical Method:16,524.2Analytical Date:10/03/16 14:46Analyst:GT

arameter	Result	Qualifier	Units	RL	MDL
olatile Organics by GC/MS -	Westborough Lat	o for sample	(s): 01-03	Batch:	WG938561-4
Dichlorodifluoromethane	ND		ug/l	0.50	
Chloromethane	ND		ug/l	0.50	
Vinyl chloride	ND		ug/l	0.50	
Bromomethane	ND		ug/l	0.50	
Chloroethane	ND		ug/l	0.50	
Trichlorofluoromethane	ND		ug/l	0.50	
1,1-Dichloroethene	ND		ug/l	0.50	
Methylene chloride	ND		ug/l	0.50	
Methyl tert butyl ether	ND		ug/l	0.50	
trans-1,2-Dichloroethene	ND		ug/l	0.50	
1,1-Dichloroethane	ND		ug/l	0.50	
2,2-Dichloropropane	ND		ug/l	0.50	
cis-1,2-Dichloroethene	ND		ug/l	0.50	
Chloroform	ND		ug/l	0.50	
Bromochloromethane	ND		ug/l	0.50	
1,1,1-Trichloroethane	ND		ug/l	0.50	
1,1-Dichloropropene	ND		ug/l	0.50	
Carbon tetrachloride	ND		ug/l	0.50	
1,2-Dichloroethane	ND		ug/l	0.50	
Benzene	ND		ug/l	0.50	
Trichloroethene	ND		ug/l	0.50	
1,2-Dichloropropane	ND		ug/l	0.50	
Bromodichloromethane	ND		ug/l	0.50	
Dibromomethane	ND		ug/l	0.50	
cis-1,3-Dichloropropene	ND		ug/l	0.50	
Toluene	ND		ug/l	0.50	
trans-1,3-Dichloropropene	ND		ug/l	0.50	
1,1,2-Trichloroethane	ND		ug/l	0.50	
1,3-Dichloropropane	ND		ug/l	0.50	



 Project Name:
 160801 EVERGREEN
 Lab Number:
 L1630671

 Project Number:
 160801
 Report Date:
 10/09/16

Method Blank Analysis Batch Quality Control

Analytical Method:	16,524.2
Analytical Date:	10/03/16 14:46
Analyst:	GT

arameter	Result	Qualifier U	nits	RL	MDL
olatile Organics by GC/MS - V	/estborough Lab	o for sample(s	s): 01-03	Batch:	WG938561-4
Tetrachloroethene	ND		ug/l	0.50	
Dibromochloromethane	ND		ug/l	0.50	
1,2-Dibromoethane	ND		ug/l	0.50	
Chlorobenzene	ND		ug/l	0.50	
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	
Ethylbenzene	ND		ug/l	0.50	
p/m-Xylene	ND		ug/l	0.50	
o-Xylene	ND		ug/l	0.50	
Styrene	ND		ug/l	0.50	
Isopropylbenzene	ND		ug/l	0.50	
Bromoform	ND		ug/l	0.50	
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	
1,2,3-Trichloropropane	ND		ug/l	0.50	
Xylenes, Total ¹	ND		ug/l	0.50	
n-Propylbenzene	ND		ug/l	0.50	
Bromobenzene	ND		ug/l	0.50	
1,3,5-Trimethylbenzene	ND		ug/l	0.50	
o-Chlorotoluene	ND		ug/l	0.50	
p-Chlorotoluene	ND		ug/l	0.50	
tert-Butylbenzene	ND		ug/l	0.50	
1,2,4-Trimethylbenzene	ND		ug/l	0.50	
sec-Butylbenzene	ND		ug/l	0.50	
p-lsopropyltoluene	ND		ug/l	0.50	
1,3-Dichlorobenzene	ND		ug/l	0.50	
1,4-Dichlorobenzene	ND		ug/l	0.50	
n-Butylbenzene	ND		ug/l	0.50	
1,2-Dichlorobenzene	ND		ug/l	0.50	
1,2-Dibromo-3-chloropropane	ND		ug/l	0.50	
1,2,4-Trichlorobenzene	ND		ug/l	0.50	



Project Name:	160801 EVERGREEN	Lab Number:	L1630671
Project Number:	160801	Report Date:	10/09/16

Method Blank Analysis Batch Quality Control

Analytical Method:	16,524.2
Analytical Date:	10/03/16 14:46
Analyst:	GT

Parameter	Result Q	ualifier Units	RL	MDL
Volatile Organics by GC/MS - W	estborough Lab fo	r sample(s): 01-03	Batch:	WG938561-4
Hexachlorobutadiene	ND	ug/l	0.50	
Naphthalene	ND	ug/l	0.50	
1,2,3-Trichlorobenzene	ND	ug/l	0.50	

		Acceptance			
Surrogate	%Recovery	Qualifier	Criteria		
1,2-Dichlorobenzene-d4	107		80-120		
4-Bromofluorobenzene	82		80-120		



Lab Control Sample Analysis

Batch Quality Control

Project Number: 160801

Lab Number: L1630671 Report Date: 10/09/16

LCSD LCS %Recovery RPD %Recovery Limits RPD %Recovery Limits Parameter Qual Qual Qual Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG938561-3 Dichlorodifluoromethane 80 70-130 20 --Chloromethane 90 70-130 20 --Vinyl chloride 70-130 20 110 --20 Bromomethane 128 -70-130 -Chloroethane 108 70-130 20 --Trichlorofluoromethane 70-130 20 78 --1,1-Dichloroethene 88 70-130 20 --Methylene chloride 80 70-130 20 --Methyl tert butyl ether 70-130 20 88 -trans-1,2-Dichloroethene 70-130 20 98 --1.1-Dichloroethane 70-130 20 95 --2,2-Dichloropropane 100 70-130 20 -cis-1.2-Dichloroethene 70-130 20 95 --Chloroform 70-130 20 80 --Bromochloromethane 70-130 20 82 --1,1,1-Trichloroethane 70-130 20 78 --1,1-Dichloropropene 80 70-130 20 --Carbon tetrachloride 98 70-130 20 --1.2-Dichloroethane 70-130 20 88 --70-130 20 Benzene 88 --Trichloroethene 100 70-130 20 --



Lab Control Sample Analysis

Batch Quality Control

Project Number: 160801

Lab Number: L1630671 Report Date: 10/09/16

LCSD LCS %Recovery RPD %Recovery Limits RPD %Recovery Qual Limits Parameter Qual Qual Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG938561-3 1,2-Dichloropropane 102 70-130 20 --Bromodichloromethane 75 70-130 20 --Dibromomethane 85 70-130 20 --70-130 20 cis-1,3-Dichloropropene 82 --Toluene 70-130 20 88 -trans-1,3-Dichloropropene 70-130 20 82 --1,1,2-Trichloroethane 98 70-130 20 --1,3-Dichloropropane 90 70-130 20 --Tetrachloroethene 70-130 20 95 --Dibromochloromethane 70-130 20 88 --1.2-Dibromoethane 100 70-130 20 --Chlorobenzene 88 70-130 20 --1,1,1,2-Tetrachloroethane 82 70-130 20 --Ethylbenzene 70-130 20 75 -p/m-Xylene 70-130 20 76 -o-Xylene 70-130 20 75 --Styrene 82 70-130 20 --Isopropylbenzene 78 70-130 20 --70-130 20 Bromoform 75 --1,1,2,2-Tetrachloroethane 70-130 20 90 --1,2,3-Trichloropropane 90 70-130 20 --



Lab Control Sample Analysis

Batch Quality Control

Project Number: 160801

Lab Number: L1630671 Report Date: 10/09/16

LCSD LCS %Recovery RPD %Recovery %Recovery Limits RPD Limits Qual Qual Parameter Qual Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG938561-3 n-Propylbenzene 75 70-130 20 --Bromobenzene 72 70-130 20 --1,3,5-Trimethylbenzene 75 70-130 20 --20 o-Chlorotoluene 70-130 75 -p-Chlorotoluene 75 70-130 20 -tert-Butylbenzene 70-130 20 82 --20 1,2,4-Trimethylbenzene 75 70-130 -sec-Butylbenzene 82 70-130 20 -p-Isopropyltoluene 70-130 20 82 _ -1,3-Dichlorobenzene 70-130 20 85 --1.4-Dichlorobenzene 80 70-130 20 -n-Butylbenzene 72 70-130 20 --1.2-Dichlorobenzene 80 70-130 20 --1,2-Dibromo-3-chloropropane 85 70-130 20 --1,2,4-Trichlorobenzene 70-130 20 78 --Hexachlorobutadiene 70-130 20 78 --Naphthalene 90 70-130 20 --70-130 20 1,2,3-Trichlorobenzene 80 --



Lab Control Sample Analysis Batch Quality Control

Project Name: 160801 EVERGREEN

Project Number: 160801 Lab Number: L1630671

Report Date: 10/09/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westborough	Lab Associated	sample(s):	01-03 Batch: W	G938561-3	3				

	LCS		LCSD		Acceptance	
Surrogate	%Recovery	Qual	%Recovery	Qual	Criteria	
1,2-Dichlorobenzene-d4	101				80-120	
4-Bromofluorobenzene	92				80-120	



Lab Control Sample Analysis

Batch Quality Control

Project Number: 160801

Lab Number: L1630671 Report Date: 10/09/16

LCSD LCS %Recovery RPD %Recovery RPD %Recovery Limits Limits Parameter Qual Qual Qual Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG938561-9 Dichlorodifluoromethane 90 70-130 20 _ -Chloromethane 95 70-130 20 --Vinyl chloride 100 70-130 20 --20 Bromomethane 100 -70-130 -Chloroethane 102 70-130 20 --Trichlorofluoromethane 70-130 20 98 --1,1-Dichloroethene 102 70-130 20 --Methylene chloride 105 70-130 20 --Methyl tert butyl ether 70-130 20 95 -trans-1.2-Dichloroethene 102 70-130 20 --1.1-Dichloroethane 102 70-130 20 --2,2-Dichloropropane 110 70-130 20 -cis-1.2-Dichloroethene 102 70-130 20 --Chloroform 100 70-130 20 --Bromochloromethane 102 70-130 20 --1,1,1-Trichloroethane 102 70-130 20 --1,1-Dichloropropene 98 70-130 20 --Carbon tetrachloride 98 70-130 20 --1.2-Dichloroethane 70-130 20 105 --70-130 20 Benzene 105 --Trichloroethene 102 70-130 20 --



Lab Control Sample Analysis Batch Quality Control

Project Number: 160801 Lab Number: L1630671 10/09/16

Report Date:

Parameter	LCS %Recovery	LCSD Qual %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits	
Volatile Organics by GC/MS - Westborough I	Lab Associated sa	ample(s): 04 Batch: WG9	38561-9				
1,2-Dichloropropane	102	-		70-130	-	20	
Bromodichloromethane	100	-		70-130	-	20	
Dibromomethane	98	-		70-130	-	20	
cis-1,3-Dichloropropene	108	-		70-130	-	20	
Toluene	105	-		70-130	-	20	
trans-1,3-Dichloropropene	120	-		70-130	-	20	
1,1,2-Trichloroethane	100	-		70-130	-	20	
1,3-Dichloropropane	95	-		70-130	-	20	
Tetrachloroethene	102	-		70-130	-	20	
Dibromochloromethane	110	-		70-130	-	20	
1,2-Dibromoethane	98	-		70-130	-	20	
Chlorobenzene	102	-		70-130	-	20	
1,1,1,2-Tetrachloroethane	102	-		70-130	-	20	
Ethylbenzene	105	-		70-130	-	20	
p/m-Xylene	99	-		70-130	-	20	
o-Xylene	102	-		70-130	-	20	
Styrene	100	-		70-130	-	20	
Isopropylbenzene	100	-		70-130	-	20	
Bromoform	120	-		70-130	-	20	
1,1,2,2-Tetrachloroethane	98	-		70-130	-	20	
1,2,3-Trichloropropane	92	-		70-130	-	20	



Lab Control Sample Analysis

Batch Quality Control

Project Number: 160801

Lab Number: L1630671 Report Date: 10/09/16

LCSD LCS %Recovery RPD %Recovery %Recovery Limits RPD Limits Qual Qual Qual Parameter Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG938561-9 n-Propylbenzene 98 70-130 20 --Bromobenzene 95 70-130 20 --1,3,5-Trimethylbenzene 98 70-130 20 --20 o-Chlorotoluene 70-130 98 -p-Chlorotoluene 98 70-130 20 -tert-Butylbenzene 70-130 20 95 --20 1,2,4-Trimethylbenzene 100 70-130 -sec-Butylbenzene 95 70-130 20 -p-Isopropyltoluene 70-130 20 98 _ -1,3-Dichlorobenzene 100 70-130 20 --1.4-Dichlorobenzene 100 70-130 20 -n-Butylbenzene 100 70-130 20 --1.2-Dichlorobenzene 102 70-130 20 --1,2-Dibromo-3-chloropropane 90 70-130 20 --1,2,4-Trichlorobenzene 105 70-130 20 --Hexachlorobutadiene 102 70-130 20 --Naphthalene 105 70-130 20 --70-130 20 1,2,3-Trichlorobenzene 105 --



Lab Control Sample Analysis Batch Quality Control

Project Name: 160801 EVERGREEN

Project Number: 160801

 Lab Number:
 L1630671

 Report Date:
 10/09/16

 LCS
 LCSD
 %Recovery
 RPD

 Parameter
 %Recovery
 Qual
 Maints

 Volatile Organics by GC/MS - Westborough Lab
 Associated sample(s):
 04
 Batch:
 WG938561-9

Surrogate	LCS %Recoverv	Qual	LCSD %Recoverv	Qual	Acceptance Criteria
Surroyate	/%Recovery	Quai	/anecovery	Quai	Untonia
1,2-Dichlorobenzene-d4	102				80-120
4-Bromofluorobenzene	98				80-120



Project Name:	160801 EVERGREEN	Batch Quality Control	Lab Number:	L1630671
Project Number:	160801		Report Date:	10/09/16

Parameter		MS dded	MS Found	MS %Recovery	Qual	MSD Found	MS %Rec	SD overy		Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS	S - Westborough Lal	o Asso	ciated sample(s): 01-04 Q0	C Batch ID	: WG93856	61-6 (QC Sam	ple: L1	630671-02	Client	ID: IW-	1
Dichlorodifluoromethane	ND	4	3.5	88		-	-			70-130	-		20
Chloromethane	ND	4	3.7	92		-	-			70-130	-		20
Vinyl chloride	ND	4	5.0	125		-	-			70-130	-		20
Bromomethane	ND	4	3.2	80		-	-			70-130	-		20
Chloroethane	ND	4	4.6	115		-	-			70-130	-		20
Trichlorofluoromethane	ND	4	3.6	90		-	-			70-130	-		20
1,1-Dichloroethene	ND	4	4.1	103		-	-			70-130	-		20
Methylene chloride	ND	4	3.3	82		-	-			70-130	-		20
Methyl tert butyl ether	ND	4	3.9	98		-	-			70-130	-		20
trans-1,2-Dichloroethene	ND	4	4.3	108		-	-			70-130	-		20
1,1-Dichloroethane	ND	4	4.3	108		-	-			70-130	-		20
2,2-Dichloropropane	ND	4	4.2	105		-	-			70-130	-		20
cis-1,2-Dichloroethene	ND	4	4.2	105		-	-			70-130	-		20
Chloroform	ND	4	3.7	92		-	-			70-130	-		20
Bromochloromethane	ND	4	3.5	88		-	-			70-130	-		20
1,1,1-Trichloroethane	ND	4	3.6	90		-	-			70-130	-		20
1,1-Dichloropropene	ND	4	3.6	90		-	-			70-130	-		20
Carbon tetrachloride	ND	4	4.8	120		-	-			70-130	-		20
1,2-Dichloroethane	ND	4	3.8	95		-	-			70-130	-		20
Benzene	ND	4	4.1	103		-	-			70-130	-		20
Trichloroethene	ND	4	4.5	113		-	-			70-130	-		20



Project Name:	160801 EVERGREEN	Batch Quality Control	Lab Number:	L1630671
Project Number:	160801		Report Date:	10/09/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	y Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS	- Westborough	Lab Asso	ciated sample(s	s): 01-04 Q	C Batch ID:	WG93856	61-6 QC Sa	mple: L'	1630671-02	Client	ID: IW-	1
1,2-Dichloropropane	ND	4	4.7	118		-	-		70-130	-		20
Bromodichloromethane	ND	4	3.7	92		-	-		70-130	-		20
Dibromomethane	ND	4	3.7	92		-	-		70-130	-		20
cis-1,3-Dichloropropene	ND	4	3.5	88		-	-		70-130	-		20
Toluene	ND	4	3.9	98		-	-		70-130	-		20
trans-1,3-Dichloropropene	ND	4	3.5	88		-	-		70-130	-		20
1,1,2-Trichloroethane	ND	4	4.6	115		-	-		70-130	-		20
1,3-Dichloropropane	ND	4	4.0	100		-	-		70-130	-		20
Tetrachloroethene	ND	4	4.3	108		-	-		70-130	-		20
Dibromochloromethane	ND	4	4.0	100		-	-		70-130	-		20
1,2-Dibromoethane	ND	4	4.4	110		-	-		70-130	-		20
Chlorobenzene	ND	4	4.0	100		-	-		70-130	-		20
1,1,1,2-Tetrachloroethane	ND	4	3.9	98		-	-		70-130	-		20
Ethylbenzene	ND	4	3.4	85		-	-		70-130	-		20
p/m-Xylene	ND	8	7.0	88		-	-		70-130	-		20
o-Xylene	ND	4	3.4	85		-	-		70-130	-		20
Styrene	ND	4	4.0	100		-	-		70-130	-		20
Isopropylbenzene	ND	4	3.6	90		-	-		70-130	-		20
Bromoform	ND	4	3.3	82		-	-		70-130	-		20
1,1,2,2-Tetrachloroethane	ND	4	4.5	113		-	-		70-130	-		20
1,2,3-Trichloropropane	ND	4	4.5	113		-	-		70-130	-		20



Project Name:	160801 EVERGREEN	Batch Quality Control	Lab Number:	L1630671
Project Number:	160801		Report Date:	10/09/16

Parameter	Native Sample	MS Added	MS Found	MS %Recove	ry Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	RPD	RPD Qual Limits
Volatile Organics by GC/M	S - Westborough	Lab Assoc	iated sample	(s): 01-04	QC Batch ID:	WG93856	1-6 QC Sa	mple: L1630671-02	Clien	t ID: IW-1
n-Propylbenzene	ND	4	3.6	90		-	-	70-130	-	20
Bromobenzene	ND	4	3.4	85		-	-	70-130	-	20
1,3,5-Trimethylbenzene	ND	4	3.6	90		-	-	70-130	-	20
o-Chlorotoluene	ND	4	3.6	90		-	-	70-130	-	20
p-Chlorotoluene	ND	4	3.7	92		-	-	70-130	-	20
tert-Butylbenzene	ND	4	3.7	92		-	-	70-130	-	20
1,2,4-Trimethylbenzene	ND	4	3.6	90		-	-	70-130	-	20
sec-Butylbenzene	ND	4	3.8	95		-	-	70-130	-	20
p-Isopropyltoluene	ND	4	3.8	95		-	-	70-130	-	20
1,3-Dichlorobenzene	ND	4	3.9	98		-	-	70-130	-	20
1,4-Dichlorobenzene	ND	4	3.4	85		-	-	70-130	-	20
n-Butylbenzene	ND	4	3.3	82		-	-	70-130	-	20
1,2-Dichlorobenzene	ND	4	3.6	90		-	-	70-130	-	20
1,2-Dibromo-3-chloropropane	ND	4	4.6	115		-	-	70-130	-	20
1,2,4-Trichlorobenzene	ND	4	3.1	78		-	-	70-130	-	20
Hexachlorobutadiene	ND	4	3.2	80		-	-	70-130	-	20
Naphthalene	ND	4	4.1	103		-	-	70-130	-	20
1,2,3-Trichlorobenzene	ND	4	3.7	92		-	-	70-130	-	20



Project Name:	160801 EVERGREEN	Batch Quality Control	Lab Number:	L1630671
Project Number:	160801		Report Date:	10/09/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS	- Westborough	Lab Associ	ated sample(s): 01-04 QC	Batch ID:	: WG93856	1-6 QC San	nple: L1	630671-02	Client	ID: IW-	·1
	0			MS			MSD		Accepta			

Surrogate	% Recovery Qu	Qualifier % Recovery	Qualifier	Criteria	
1,2-Dichlorobenzene-d4	103			80-120	
4-Bromofluorobenzene	97			80-120	



Lab Duplicate Analysis Batch Quality Control

Project Name: 160801 EVERGREEN

Project Number: 160801

Lab Number:

L1630671 10/09/16 Report Date:

arameter	Native Sample	Duplicate Sample	e Units	RPD	RPD Qual Limits
olatile Organics by GC/MS - Westborough Lab	Associated sample(s): 01-04	4 QC Batch ID: W	G938561-5	QC Sample: L	1630671-01 Client ID: MW-6
Dichlorodifluoromethane	ND	ND	ug/l	NC	20
Chloromethane	ND	ND	ug/l	NC	20
Vinyl chloride	ND	ND	ug/l	NC	20
Bromomethane	ND	ND	ug/l	NC	20
Chloroethane	ND	ND	ug/l	NC	20
Trichlorofluoromethane	ND	ND	ug/l	NC	20
1,1-Dichloroethene	ND	ND	ug/l	NC	20
Methylene chloride	ND	ND	ug/l	NC	20
Methyl tert butyl ether	ND	ND	ug/l	NC	20
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	20
1,1-Dichloroethane	ND	ND	ug/l	NC	20
2,2-Dichloropropane	ND	ND	ug/l	NC	20
cis-1,2-Dichloroethene	ND	ND	ug/l	NC	20
Chloroform	ND	ND	ug/l	NC	20
Bromochloromethane	ND	ND	ug/l	NC	20
1,1,1-Trichloroethane	ND	ND	ug/l	NC	20
1,1-Dichloropropene	ND	ND	ug/l	NC	20
Carbon tetrachloride	ND	ND	ug/l	NC	20
1,2-Dichloroethane	ND	ND	ug/l	NC	20



L1630671

Lab Duplicate Analysis Batch Quality Control

Project Name: 160801 EVERGREEN

Project Number: 160801

Lab Number:

Report Date: 10/09/16

arameter	Native Sample	Duplicate Sample	e Units	RPD	RPD Limits
olatile Organics by GC/MS - Westborough Lab	Associated sample(s): 01-0	04 QC Batch ID: Wo	G938561-5	QC Sample: L	1630671-01 Client ID: MW-6
Benzene	ND	ND	ug/l	NC	20
Trichloroethene	ND	ND	ug/l	NC	20
1,2-Dichloropropane	ND	ND	ug/l	NC	20
Bromodichloromethane	ND	ND	ug/l	NC	20
Dibromomethane	ND	ND	ug/l	NC	20
cis-1,3-Dichloropropene	ND	ND	ug/l	NC	20
Toluene	ND	ND	ug/l	NC	20
trans-1,3-Dichloropropene	ND	ND	ug/l	NC	20
1,1,2-Trichloroethane	ND	ND	ug/l	NC	20
1,3-Dichloropropane	ND	ND	ug/l	NC	20
Tetrachloroethene	ND	ND	ug/l	NC	20
Dibromochloromethane	ND	ND	ug/l	NC	20
1,2-Dibromoethane	ND	ND	ug/l	NC	20
Chlorobenzene	ND	ND	ug/l	NC	20
1,1,1,2-Tetrachloroethane	ND	ND	ug/l	NC	20
Ethylbenzene	ND	ND	ug/l	NC	20
p/m-Xylene	ND	ND	ug/l	NC	20
o-Xylene	ND	ND	ug/l	NC	20
Styrene	ND	ND	ug/l	NC	20



L1630671

Lab Duplicate Analysis Batch Quality Control

Project Name: 160801 EVERGREEN

Project Number: 160801

Lab Number:

Report Date: 10/09/16

arameter	Native Sample	Duplicate Sample	e Units	RPD	RPD Limits
olatile Organics by GC/MS - Westborough Lab	Associated sample(s): 01-04	4 QC Batch ID: Wo	G938561-5	QC Sample: L	1630671-01 Client ID: MW-6
Isopropylbenzene	ND	ND	ug/l	NC	20
Bromoform	ND	ND	ug/l	NC	20
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC	20
1,2,3-Trichloropropane	ND	ND	ug/l	NC	20
n-Propylbenzene	ND	ND	ug/l	NC	20
Xylenes, Total ¹	ND	ND	ug/l	NC	20
Bromobenzene	ND	ND	ug/l	NC	20
1,3,5-Trimethylbenzene	ND	ND	ug/l	NC	20
o-Chlorotoluene	ND	ND	ug/l	NC	20
p-Chlorotoluene	ND	ND	ug/l	NC	20
tert-Butylbenzene	ND	ND	ug/l	NC	20
1,2,4-Trimethylbenzene	ND	ND	ug/l	NC	20
sec-Butylbenzene	ND	ND	ug/l	NC	20
p-IsopropyItoluene	ND	ND	ug/l	NC	20
1,3-Dichlorobenzene	ND	ND	ug/l	NC	20
1,4-Dichlorobenzene	ND	ND	ug/l	NC	20
n-Butylbenzene	ND	ND	ug/l	NC	20
1,2-Dichlorobenzene	ND	ND	ug/l	NC	20
1,2-Dibromo-3-chloropropane	ND	ND	ug/l	NC	20



Lab Duplicate Analysis Batch Quality Control

Project Name: 160801 EVERGREEN Project Number: 160801

Lab Number: Report Date:

L1630671 10/09/16

RPD Parameter Native Sample Duplicate Sample Units RPD Limits Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG938561-5 QC Sample: L1630671-01 Client ID: MW-6 ND NC 1,2,4-Trichlorobenzene ND ug/l 20 NC Hexachlorobutadiene ND ND ug/l 20 NC Naphthalene ND ND ug/l 20 1,2,3-Trichlorobenzene NC 20 ND ND ug/l

					Acceptance	
Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Criteria	
1,2-Dichlorobenzene-d4	112		106		80-120	
4-Bromofluorobenzene	85		88		80-120	



METALS



Project Name:	16080	01 EVERGE	REEN				Lab Nu	mber:	L16306	71	
Project Number:	16080	01					Report	Date:	10/09/1	6	
				SAMPL	E RES	ULTS					
Lab ID:	L1630	0671-01					Date Co	ollected:	09/27/1	6 15:00	
Client ID:	MW-6	5					Date Re	eceived:	09/28/1	6	
Sample Location:	NEW	BURYPOR ⁻	Г				Field Pr	ep:	Not Spe	ecified	
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analys
Total Metals - Mans	field Lab										
Potassium, Total	8.85		mg/l	2.50		1	09/30/16 08:00) 10/04/16 13:49	EPA 3005A	19,200.7	PS
Sodium, Total	21.0		mg/l	2.00		1	09/30/16 08:00) 10/04/16 13:49	EPA 3005A	19,200.7	PS



Project Name:	16080	01 EVERGE	REEN				Lab Nu	mber:	L16306	71	
Project Number:	16080	01					Report	Date:	10/09/1	6	
				SAMPL	E RES	ULTS					
Lab ID:	L1630	0671-02					Date Co	ollected:	09/27/1	6 15:40	
Client ID:	IW-1						Date Re	eceived:	09/28/1	6	
Sample Location:	NEW	BURYPOR ⁻	Г				Field Pr	ep:	Not Spe	ecified	
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Potassium, Total	3.91		mg/l	2.50		1	09/30/16 08:00	0 10/04/16 13:54	EPA 3005A	19,200.7	PS
Sodium, Total	46.6		mg/l	2.00		1	09/30/16 08.00	0 10/04/16 13:54	EPA 3005A	19,200.7	PS



Project Name:	16080	01 EVERGE	REEN				Lab Nu	mber:	L16306	71	
Project Number:	16080	01					Report	Date:	10/09/1	6	
				SAMPL	E RES	ULTS					
Lab ID:	L1630	0671-03					Date Co	ollected:	09/27/1	6 16:30	
Client ID:	MW-7	,					Date Re	eceived:	09/28/1	6	
Sample Location:	NEW	BURYPOR ⁻	Г				Field Pr	ep:	Not Spe	ecified	
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analys
Total Metals - Mans	field Lab										
Potassium, Total	24.6		mg/l	2.50		1	09/30/16 08:00	0 10/04/16 13:59	EPA 3005A	19,200.7	PS
Sodium, Total	62.5		mg/l	2.00		1	09/30/16 08:00	0 10/04/16 13:59	EPA 3005A	19,200.7	PS



Project Name:160801 EVERGREENProject Number:160801

 Lab Number:
 L1630671

 Report Date:
 10/09/16

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield	Lab for sample(s)	: 01-03 B	atch: W	G93742	6-1				
Potassium, Total	ND	mg/l	2.50		1	09/30/16 08:00	10/04/16 12:36	19,200.7	PS
Sodium, Total	ND	mg/l	2.00		1	09/30/16 08:00	10/04/16 12:36	19,200.7	PS

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis Batch Quality Control

Project Name: 160801 EVERGREEN

Project Number: 160801 Lab Number: L1630671 Report Date: 10/09/16

Parameter	LCS %Recovery	LCSD Qual %Recovery	% Qual	6Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sam	ple(s): 01-03 Batch:	: WG937426-2					
Potassium, Total	102	-		85-115	-		
Sodium, Total	102	-		85-115	-		



Matrix Spike Analysis Batch Quality Control

Project Name: 160801 EVERGREEN

Project Number: 160801

 Lab Number:
 L1630671

 Report Date:
 10/09/16

F	Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
	Total Metals - Mansfield Lab Ass	ociated sam	ple(s): 01-03	QC Bat	ch ID: WG9374	126-4	QC Samp	le: L1630699-0	2 Cli	ent ID: MS	Sample		
	Potassium, Total	ND	10	14.6	146	Q	-	-		75-125	-		20
	Sodium, Total	10.9	10	24.1	132	Q	-	-		75-125	-		20



INORGANICS & MISCELLANEOUS



Serial	No:1	0091	61	9:29

Project Name: 160801 EVERGREEN Project Number: 160801 Lab Number: L1630671 Report Date: 10/09/16

SAMPLE RESULTS

Lab ID:	L1630671-01	Date Collected:	09/27/16 15:00
Client ID:	MW-6	Date Received:	09/28/16
Sample Location:	NEWBURYPORT	Field Prep:	Not Specified
Matrix:	Dw		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
General Chemistry - V	Vestborough La	C									
Nitrogen, Nitrite	ND		mg/l	0.050		1	-	09/28/16 20:41	44,353.2	MR	
Nitrogen, Nitrate	1.8		mg/l	0.10		1	-	09/28/16 20:41	44,353.2	MR	
Phosphorus, Total	1.48		mg/l	0.100		10	09/30/16 13:50	10/03/16 10:34	121,4500P-E	SD	
Anions by Ion Chromatography - Westborough Lab											
Chloride	39.6		mg/l	0.500		1	-	09/29/16 17:34	44,300.0	AU	



Project Name: 160801 EVERGREEN Project Number: 160801 Lab Number: L1630671 Report Date: 10/09/16

SAMPLE RESULTS

Lab ID:	L1630671-02	Date Collected:	09/27/16 15:40
Client ID:	IW-1	Date Received:	09/28/16
Sample Location:	NEWBURYPORT	Field Prep:	Not Specified
Matrix:	Dw		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough La	b								
Nitrogen, Nitrite	ND		mg/l	0.050		1	-	09/28/16 20:42	44,353.2	MR
Nitrogen, Nitrate	1.2		mg/l	0.10		1	-	09/28/16 20:42	44,353.2	MR
Phosphorus, Total	ND		mg/l	0.010		1	09/30/16 13:50	10/03/16 10:34	121,4500P-E	SD
Anions by Ion Chroma	atography - Wes	tborough	Lab							
Chloride	129.		mg/l	12.5		25	-	09/29/16 22:22	44,300.0	AU



Project Name:160801 EVERGREENProject Number:160801

Lab Number: L1630671 Report Date: 10/09/16

SAMPLE RESULTS

Lab ID:	L1630671-03	Date Collected:	09/27/16 16:30
Client ID:	MW-7	Date Received:	09/28/16
Sample Location:	NEWBURYPORT	Field Prep:	Not Specified
Matrix:	Dw		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lat)								
Nitrogen, Nitrite	ND		mg/l	0.050		1	-	09/28/16 20:47	44,353.2	MR
Nitrogen, Nitrate	0.42		mg/l	0.10		1	-	09/28/16 20:47	44,353.2	MR
Phosphorus, Total	2.17		mg/l	0.100		10	09/30/16 13:50	10/03/16 10:35	121,4500P-E	SD
Anions by Ion Chroma	atography - West	borough	Lab							
Chloride	160.		mg/l	12.5		25	-	09/29/16 22:34	44,300.0	AU



Project Name:160801 EVERGREENProject Number:160801

 Lab Number:
 L1630671

 Report Date:
 10/09/16

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab for sam	nple(s): 0 ²	1-03 Ba	tch: WO	G936803-1				
Nitrogen, Nitrate	ND	mg/l	0.10		1	-	09/28/16 20:24	44,353.2	MR
General Chemistry - W	estborough Lab for sam	nple(s): 0 ²	1-03 Ba	tch: WO	3936805-1				
Nitrogen, Nitrite	ND	mg/l	0.050		1	-	09/28/16 20:30	44,353.2	MR
General Chemistry - W	estborough Lab for sam	nple(s): 0 ²	1-03 Ba	tch: WO	3937602-1				
Phosphorus, Total	ND	mg/l	0.010		1	09/30/16 13:50	10/03/16 10:16	121,4500P-E	SD
Anions by Ion Chromat	tography - Westborough	Lab for s	ample(s)	: 01-03	Batch: W	/G937689-1			
Chloride	ND	mg/l	0.500		1	-	09/29/16 17:10	44,300.0	AU



Lab Control Sample Analysis Batch Quality Control

Project Name: 160801 EVERGREEN

Project Number: 160801 Lab Number: L1630671 Report Date: 10/09/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab A	ssociated sample(s): 01-03	Batch: WG9368	803-2				
Nitrogen, Nitrate	96		-		90-110	-		
General Chemistry - Westborough Lab A	ssociated sample(s): 01-03	Batch: WG9368	05-2				
Nitrogen, Nitrite	104		-		90-110	-		20
General Chemistry - Westborough Lab A	ssociated sample(s): 01-03	Batch: WG9376	602-2				
Phosphorus, Total	103		-		80-120	-		
Anions by Ion Chromatography - Westbo	rough Lab Associat	ed samp	le(s): 01-03 Bat	ch: WG937	689-2			
Chloride	101		-		90-110	-		



Matrix Spike Analysis Batch Quality Control

Project Name: 160801 EVERGREEN

Project Number: 160801 Lab Number: L1630671 **Report Date:** 10/09/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recovery Qual Limits	RPI	RPD <u>Qual</u> Limits
General Chemistry - Westboro	ough Lab Asso	ciated samp	ole(s): 01-03	QC Batch II	D: WG936803-4	QC Sample: L	1630670-04 Clie	ent ID:	MS Sample
Nitrogen, Nitrate	0.43	4	4.3	97	-	-	83-113	-	6
General Chemistry - Westboro	ough Lab Asso	ciated samp	ole(s): 01-03	QC Batch II	D: WG936805-4	QC Sample: L	1630670-04 Clie	ent ID:	MS Sample
Nitrogen, Nitrite	0.14	4	4.1	99	-	-	80-120	-	20
General Chemistry - Westboro	ough Lab Asso	ciated samp	ole(s): 01-03	QC Batch II	D: WG937602-3	QC Sample: L	1630317-02 Clie	ent ID:	MS Sample
Phosphorus, Total	0.023	0.5	0.512	98	-	-	75-125	-	20
Anions by Ion Chromatograph	y - Westborou	gh Lab Asso	ociated samp	ole(s): 01-03	QC Batch ID: W	G937689-3 Q0	C Sample: L16305	580-01	Client ID: MS
Chloride	2.64	4	6.94	108		-	40-151	-	18



Lab Duplicate Analysis Batch Quality Control

Project Name:160801 EVERGREENProject Number:160801

 Lab Number:
 L1630671

 Report Date:
 10/09/16

Parameter	Native Sample	Duplicate Sample	e Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated s	ample(s): 01-03 QC Batch I	D: WG936803-3	QC Sample:	L1630670-04	Client ID:	DUP Sample
Nitrogen, Nitrate	0.43	0.43	mg/l	0		6
General Chemistry - Westborough Lab Associated s	ample(s): 01-03 QC Batch I	D: WG936805-3	QC Sample:	L1630670-04	Client ID:	DUP Sample
Nitrogen, Nitrite	0.14	0.13	mg/l	7		20
General Chemistry - Westborough Lab Associated s	ample(s): 01-03 QC Batch I	D: WG937602-4	QC Sample:	L1630317-02	Client ID:	DUP Sample
Phosphorus, Total	0.023	0.022	mg/l	4		20
Anions by Ion Chromatography - Westborough Lab	Associated sample(s): 01-03	QC Batch ID: WC	G937689-4 (QC Sample: L	1630580-0 <i>1</i>	I Client ID: DUP
Chloride	2.64	2.65	mg/l	0		18



Project Name: 160801 EVERGREEN Project Number: 160801 Lab Number: L1630671 Report Date: 10/09/16

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Cooler Information Cooler	Custody Seal
A	Absent
В	Absent

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1630671-01A	Vial Ascorbic Acid/HCI preserved	А	N/A	3.8	Y	Absent	524.2(14)
L1630671-01B	Vial Ascorbic Acid/HCI preserved	А	N/A	3.8	Y	Absent	524.2(14)
L1630671-01D	Plastic 250ml unpreserved	A	7	3.8	Y	Absent	CL-300(28),NO2-353(2),NO3- 353(2)
L1630671-01E	Plastic 250ml H2SO4 preserved	А	<2	3.8	Y	Absent	TPHOS-4500(28)
L1630671-01F	Plastic 250ml HNO3 preserved spl	А	<2	3.8	Y	Absent	K-UI(180),NA-UI(180)
L1630671-02A	Vial Ascorbic Acid/HCI preserved	В	N/A	2.5	Y	Absent	524.2(14)
L1630671-02B	Vial Ascorbic Acid/HCI preserved	А	N/A	3.8	Y	Absent	524.2(14)
L1630671-02C	Vial Ascorbic Acid/HCI preserved	В	N/A	2.5	Y	Absent	-
L1630671-02D	Plastic 250ml unpreserved	В	7	2.5	Y	Absent	CL-300(28),NO2-353(2),NO3- 353(2)
L1630671-02E	Plastic 250ml H2SO4 preserved	В	<2	2.5	Y	Absent	TPHOS-4500(28)
L1630671-02F	Plastic 250ml HNO3 preserved	В	<2	2.5	Y	Absent	K-UI(180),NA-UI(180)
L1630671-03A	Vial Ascorbic Acid/HCI preserved	А	N/A	3.8	Y	Absent	524.2(14)
L1630671-03B	Vial Ascorbic Acid/HCI preserved	А	N/A	3.8	Y	Absent	524.2(14)
L1630671-03D	Plastic 250ml unpreserved	A	7	3.8	Y	Absent	CL-300(28),NO2-353(2),NO3- 353(2)
L1630671-03E	Plastic 250ml H2SO4 preserved	А	<2	3.8	Y	Absent	TPHOS-4500(28)
L1630671-03F	Plastic 250ml HNO3 preserved	А	7	3.8	Y	Absent	K-UI(180),NA-UI(180)
L1630671-04A	Vial Ascorbic Acid/HCI preserved	А	N/A	3.8	Y	Absent	524.2(14)
L1630671-04B	Vial Ascorbic Acid/HCI preserved	А	N/A	3.8	Y	Absent	524.2(14)



L1630671

10/09/16

Lab Number:

Report Date:

Project Name: 160801 EVERGREEN

Project Number: 160801

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any
	adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

- STLP Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TIC Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For NDD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For NJ-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For NJ-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the concentrations of the analyte, which was detected above the re

Report Format: Data Usability Report



Project Name: 160801 EVERGREEN

Project Number: 160801

Lab Number: L1630671

Report Date: 10/09/16

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- RE Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- J -Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- **ND** Not detected at the reporting limit (RL) for the sample.



 Lab Number:
 L1630671

 Report Date:
 10/09/16

REFERENCES

- 16 Methods for the Determination of Organic Compounds in Drinking Water Supplement II. EPA/600/R-92/129, August 1992.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene EPA 8260C: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; <u>SCM</u>: lodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270D: <u>NPW</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. EPA 300: <u>DW</u>: Bromide EPA 6860: <u>NPW and SCM</u>: Perchlorate EPA 9010: <u>NPW and SCM</u>: Amenable Cyanide Distillation EPA 9012B: <u>NPW</u>: Total Cyanide EPA 9050A: <u>NPW</u>: Specific Conductance SM3500: <u>NPW</u>: Ferrous Iron SM4500: <u>NPW</u>: Amenable Cyanide, Dissolved Oxygen; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3. SM5310C: <u>DW</u>: Dissolved Organic Carbon

Mansfield Facility SM 2540D: TSS EPA 3005A NPW EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Biological Tissue Matrix: *EPA 3050B*

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D. EPA 624: Volatile Halocarbons & Aromatics, EPA 628: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil. Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

Mansfield Facility:

Drinking Water EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. EPA 245.1 Hg.

Non-Potable Water EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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Westboro, MA 0 Tel: 508-898-92	1581 Mansfield, MA 0204	⁸ Project	Name: /	6080	1 EV	ercrein		ADEx		μÊ	MAIL				🗆 Sa	me as (Client inf	o PO	#:	
Client Information	n	Project	Location:	Newb	000060	-f	Reg	gulato	ry Re	quire	ments	&	Proj	ect Ir	form	ation F	Require	ements		
Client: North	east Geoscier	Project	Location: #: /60	861	-ye							al Meth		SDG?			No CT MCP In		nalytical Met	hods
Address: 97 W	alnut Street		Manager:					es 🗆 N	o GW1	Stand	dards (with Targ	-	3)	
Clinto	MA OISI	۵ ALPH	A Quote #:		8	-			o NPD ate /Fe							Crite	ria	2		
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ALPHA Lab ID (Lab Use Only)	Sample	e ID	Col Date	lection Time	Sample Matrix	Sampler Initials	, io Vo	SVOC:	METALS: DMCP 13	EPH: CD RCRAS DEC 14	D-Han	D PCB		Mile hered	N N	2	\$/ /		ole Commer	E
30671-01	MW-6	44.00	9-27-1	\$ 15:00	GW	JGB							X	X	X	X				
32	IW-1		Ð	15:40	DW	JGB							X	X	XV	<				
-63	MW-7		t)	16:30	GW	JGB							X	×	X	x				
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Container Type P= Plastic A= Amber glass	<i>Preservative</i> A= None B= HCl			-		ainer Type			-				-							
V= Vial G= Glass B= Bacteria cup	$C = HNO_3$ $D = H_2SO_4$ $E = NaOH$			and the second second		eservative												•••		
C= Cube O= Other E= Encore	F= MeOH G= NaHSO₄	A Reling	uished By:			e/Time 8-16			Receiv	ed By		FAL	1	Date/	Fime	Z. AI	sample	s submi	tted are subj	ject to
D= BOD Bottle	$H = Na_2S_2O_3$ I= Ascorbic Åcid J = NH ₄ CI	1º				47			R	ð	<u>, </u>	nc.	110	-0/15	107	Al	oha's Tel e revers	rms and	Conditions.	
Page 57 of 57	K= Zn Acetate O= Other	0)	-												2-Mar-2012)	

GRANITE STATE ANALYTICAL SERVICES, LLC

22 Manchester Road, Unit 2, Derry, NH 03038

Phone (800) 699-9920

http://www.granitestateanalytical.com/

(603) 432-3044

Fax (603) 434-4837

CERTIFICATE OF ANALYSIS FOR DRINKING WATER

DATE PRINTED:	10/10/2016		Legend
CLIENT NAME:	Alpha Analytical		Passes 🖌 🗸
CLIENT ADDRESS:	8 Walkup Dr.		Fails EPA Primary 🛛 🚫
	Westborough, MA 01581		Fails EPA Secondary 🛛 😽
			Fails EPA Proposed Limit 🗙
SAMPLE ID#:	1609-02996-001	DATE AND TIME COLLECTED:	09/27/2016 3:00 PM
SAMPLED BY:	Alpha Analytical	DATE AND TIME RECEIVED:	09/29/2016 11:10 AM
		ANALYSIS PACKAGE:	SOC GSA MA
SAMPLE ADDRESS:	MW-6	RECEIPT TEMPERATURE:	ON ICE 4.5 CELSIUS
	MA	CLIENT JOB # L1630673	

LOCATION:

Test Description	Results	Test Units	Pass DQ /Fail Flag	RL	EPA Limit	Method	Analyst	Date-Time Analyzed
1,2-Dibromo-3-chloropropane (DBCP)*	<0.02	ug/L	1	0.02	0.2 ug/L	EPA 504.1	BM-NH	10/04/16 7:02 PM
Date Extracted	-				No Limit	EPA 504.1	ND-NH	10/04/16 9:50 AM
Ethylene Dibromide (EDB)*	<0.02	ug/L	1	0.02	0.05 ug/L	EPA 504.1	BM-NH	10/04/16 7:02 PM
Aroclor 1016	<0.2	ug/L		0.2	No Limit	EPA 505	BM-NH	10/05/16 8:09 PM
Aroclor 1221	<0.2	ug/L		0.2	No Limit	EPA 505	BM-NH	10/05/16 8:09 PM
Aroclor 1232	<0.2	ug/L		0.2	No Limit	EPA 505	BM-NH	10/05/16 8:09 PM
Aroclor 1242	<0.2	ug/L		0.2	No Limit	EPA 505	BM-NH	10/05/16 8:09 PM
Aroclor 1248	<0.2	ug/L		0.2	No Limit	EPA 505	BM-NH	10/05/16 8:09 PM
Aroclor 1254	<0.2	ug/L		0.2	No Limit	EPA 505	BM-NH	10/05/16 8:09 PM
Aroclor 1260	<0.2	ug/L		0.2	No Limit	EPA 505	BM-NH	10/05/16 8:09 PM
Chlordane*	<0.2	ug/L	1	0.2	2 ug/L	EPA 505	BM-NH	10/05/16 8:09 PM
Date Extracted	-				No Limit	EPA 505	ND-NH	10/04/16 9:50 AM
Toxaphene*	<1.0	ug/L	1	1.0	3 ug/L	EPA 505	BM-NH	10/05/16 8:09 PM
2,4,5-TP (Silvex)*	<0.25	ug/L	1	0.25	50 ug/L	EPA 515.3	BM-NH	10/05/16 12:06 AM
2,4-D*	<1	ug/L	1	1	70 ug/L	EPA 515.3	BM-NH	10/05/16 12:06 AM
Dalapon*	<1	ug/L	1	1	200 ug/L	EPA 515.3	BM-NH	10/05/16 12:06 AM
Date Extracted	-				No Limit	EPA 515.3	KV-NH	10/04/16 9:50 AM
Dicamba*	<0.18	ug/L		0.18	No Limit	EPA 515.3	BM-NH	10/05/16 12:06 AM
Dinoseb*	<0.5	ug/L	1	0.5	7 ug/L	EPA 515.3	BM-NH	10/05/16 12:06 AM
Pentachlorophenol*	<0.1	ug/L	1	0.1	1 ug/L	EPA 515.3	BM-NH	10/05/16 12:06 AM
Picloram*	<1.3	ug/L	1	1.3	500 ug/L	EPA 515.3	BM-NH	10/05/16 12:06 AM
2,4-Dichlorophenylacetic acid	105	%			No Limit	EPA 515.3 - SS	BM-NH	10/05/16 12:06 AM
Alachlor*	<0.1	ug/L	1	0.1	2 ug/L	EPA 525.2	DD-NH	10/06/16 7:02 PM
Aldrin*	<0.1	ug/L		0.1	No Limit	EPA 525.2	DD-NH	10/06/16 7:02 PM
Atrazine*	<0.1	ug/L	1	0.1	3 ug/L	EPA 525.2	DD-NH	10/06/16 7:02 PM
Benzo(a)pyrene*	<0.1	ug/L	1	0.1	0.2 ug/L	EPA 525.2	DD-NH	10/06/16 7:02 PM
Butachlor*	<0.1	ug/L	-	0.1	No Limit	EPA 525.2	DD-NH	10/06/16 7:02 PM
Date Extracted	-				No Limit	EPA 525.2	KV-NH	10/05/16 10:05 AM
Di(2-ethylhexyl)adipate*	<0.6	ug/L	1	0.6	400 ug/L	EPA 525.2	DD-NH	10/06/16 7:02 PM
Di(2-ethylhexyl)phthalate*	<3	ug/L	1	3	6 ug/L	EPA 525.2	DD-NH	10/06/16 7:02 PM
Dieldrin*	<0.04	ug/L	-	0.04	No Limit	EPA 525.2	DD-NH	10/06/16 7:02 PM

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CLIENT ADDRESS:	8 Walkup Dr.		Fails EPA Primary 🛛 🚫
	Westborough, MA 01581		Fails EPA Secondary 🛛 💙
			Fails EPA Proposed Limit 🗙
SAMPLE ID#:	1609-02996-001	DATE AND TIME COLLECTED:	09/27/2016 3:00 PM
SAMPLED BY:	Alpha Analytical	DATE AND TIME RECEIVED:	09/29/2016 11:10 AM
		ANALYSIS PACKAGE:	SOC GSA MA
SAMPLE ADDRESS:	MW-6	RECEIPT TEMPERATURE:	ON ICE 4.5 CELSIUS
	MA	CLIENT JOB # L1630673	

LOCATION:

Test Description	Results	Test Units	Pass /Fail	DQ Flag	RL	EPA Limit	Method	Analyst	Date-Time Analyzed
Endrin*	<0.1	ug/L	~		0.1	2 ug/L	EPA 525.2	DD-NH 3	L0/06/16 7:02 PM
Heptachlor Epoxide*	<0.06	ug/L	1		0.06	0.2 ug/L	EPA 525.2	DD-NH 3	L0/06/16 7:02 PM
Heptachlor*	< 0.04	ug/L	1		0.04	0.4 ug/L	EPA 525.2	DD-NH 3	L0/06/16 7:02 PM
Hexachlorobenzene*	<0.1	ug/L	1		0.1	1 ug/L	EPA 525.2	DD-NH 3	L0/06/16 7:02 PM
Hexachlorocyclopentadiene*	<0.1	ug/L	1		0.1	50 ug/L	EPA 525.2	DD-NH 3	L0/06/16 7:02 PM
Lindane*	<0.07	ug/L	1		0.07	0.2 ug/L	EPA 525.2	DD-NH 3	L0/06/16 7:02 PM
Methoxychlor*	<0.1	ug/L	1		0.1	40 ug/L	EPA 525.2	DD-NH 3	L0/06/16 7:02 PM
Metolachlor*	<0.1	ug/L			0.1	No Limit	EPA 525.2	DD-NH 3	L0/06/16 7:02 PM
Metribuzin*	<0.1	ug/L			0.1	No Limit	EPA 525.2	DD-NH 3	L0/06/16 7:02 PM
Propachlor*	<0.1	ug/L			0.1	No Limit	EPA 525.2	DD-NH 3	L0/06/16 7:02 PM
Simazine*	<0.1	ug/L	1		0.1	4 ug/L	EPA 525.2	DD-NH 3	L0/06/16 7:02 PM
1,3-Dimethyl-2-nitrobenzene	102	%				No Limit	EPA 525.2 - SS	DD-NH 3	L0/06/16 7:02 PM
Perylene-d12	95	%				No Limit	EPA 525.2 - SS	DD-NH 3	L0/06/16 7:02 PM
Pyrene-d10	102	%				No Limit	EPA 525.2 - SS	DD-NH 3	L0/06/16 7:02 PM
Triphenylphosphate	110	%				No Limit	EPA 525.2 - SS	DD-NH 3	L0/06/16 7:02 PM
3-Hydroxycarbofuran*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	L0/04/16 4:02 PM
Aldicarb Sulfone*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	L0/04/16 4:02 PM
Aldicarb Sulfoxide*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	L0/04/16 4:02 PM
Aldicarb*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	L0/04/16 4:02 PM
Carbaryl*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	L0/04/16 4:02 PM
Carbofuran*	<0.9	ug/L	1		0.9	40 ug/L	EPA 531.1	BM-NH 3	L0/04/16 4:02 PM
Methiocarb*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	L0/04/16 4:02 PM
Methomyl*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	L0/04/16 4:02 PM
Oxamyl (Vydate)*	<1	ug/L	1		1	200 ug/L	EPA 531.1	BM-NH 3	L0/04/16 4:02 PM
Propoxur (Baygon)*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	L0/04/16 4:02 PM
Glyphosate*	<6	ug/L	1		6	700 ug/L	EPA 547	BM-NH 3	10/08/16 1:32 AM

	Ph	GRANITE STATE ANALYTIC 22 Manchester Road, Unit 2, D one (800) 699-9920 (603) 432-30 http://www.granitestateana	lerry, NH 03038 44 Fax (603) 434-4837
	CERTIFICATE OF	ANALYSIS FOR DRINKING W	/ATER
DATE PRINTED:	10/10/2016		Legend
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CLIENT ADDRESS:	8 Walkup Dr.		Fails EPA Primary 🛛 🚫
	Westborough, MA 01581		Fails EPA Secondary 🛛 🗸
			Fails EPA Proposed Limit 🗙
SAMPLE ID#:	1609-02996-001	DATE AND TIME COLLECT	TED: 09/27/2016 3:00 PM
SAMPLED BY:	Alpha Analytical	DATE AND TIME RECEIVE	D: 09/29/2016 11:10 AM
		ANALYSIS PACKAGE:	SOC GSA MA
SAMPLE ADDRESS:	MW-6	RECEIPT TEMPERATURE:	ON ICE 4.5 CELSIUS
		CLIENT JOB # L163	30673
LOCATION:	MA		
Test Description	Results Test Uni	s Pass DQ RL EPA Limit /Fail Flag	Method Analyst Date-Time Analyzed

The results presented in this report relate to the samples listed above in the condition in which they were received. RL: "Reporting limit" means the lowest level of an analyte that can be accurately recovered from the matrix of interest.

Data Qualifier (DQ) Flags: None

* MA Certified Analysis

Donalla. L.C.

Donald J. D'Anjou, Ph. D. Laboratory Director

This analysis meets Commonwealth of Massachusetts requirements except as noted. State Certifications: | NH 1015 | MA M-NH003 | ME NH00003 | RI 101513 | VT VT-101507 | This certificate shall not be reproduced, except in full, without the written approval of Granite State Analytical Services, LLC

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CERTIFICATE OF ANALYSIS FOR DRINKING WATER

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CLIENT ADDRESS:	8 Walkup Dr.		Fails EPA Primary 🛛 🚫
	Westborough, MA 01581		Fails EPA Secondary 🛛 😽
			Fails EPA Proposed Limit 🗙
SAMPLE ID#:	1609-02996-002	DATE AND TIME COLLECTED:	09/27/2016 3:40 PM
SAMPLED BY:	Alpha Analytical	DATE AND TIME RECEIVED:	09/29/2016 11:10 AM
		ANALYSIS PACKAGE:	SOC GSA MA
SAMPLE ADDRESS:	IW-1	RECEIPT TEMPERATURE:	ON ICE 4.5 CELSIUS
	МА	CLIENT JOB # L1630673	
LOCATION:	MA		

Results **Test Units** Pass DQ RL EPA Limit Method Date-Time **Test Description** Analyst /Fail Flag Analyzed 1,2-Dibromo-3-chloropropane < 0.02 ug/L 0.02 0.2 ug/L EPA 504.1 BM-NH 10/04/16 8:52 PM (DBCP)* Date Extracted No Limit EPA 504.1 ND-NH 10/04/16 9:50 AM Ethylene Dibromide (EDB)* < 0.02 ug/L 0.02 0.05 ug/L EPA 504.1 BM-NH 10/04/16 8:52 PM Aroclor 1016 < 0.2 ug/L 0.2 No Limit EPA 505 BM-NH 10/05/16 11:04 PM Aroclor 1221 < 0.2 0.2 No Limit EPA 505 BM-NH 10/05/16 11:04 PM ug/L Aroclor 1232 < 0.2 0.2 No Limit EPA 505 BM-NH 10/05/16 11:04 PM ug/L <0.2 No Limit Aroclor 1242 0.2 EPA 505 BM-NH 10/05/16 11:04 PM ug/L Aroclor 1248 < 0.2 ug/L 0.2 No Limit EPA 505 BM-NH 10/05/16 11:04 PM < 0.2 0.2 No Limit BM-NH 10/05/16 11:04 PM Aroclor 1254 ug/L EPA 505 < 0.2 No Limit BM-NH 10/05/16 11:04 PM Aroclor 1260 ug/L 0.2 EPA 505 Chlordane* <0.2 ug/L 0.2 2 ug/L EPA 505 BM-NH 10/05/16 11:04 PM EPA 505 ND-NH 10/04/16 9:50 AM Date Extracted No Limit BM-NH 10/05/16 11:04 PM Toxaphene* <1.0 ug/L 1.0 3 ug/L EPA 505 2,4,5-TP (Silvex)* < 0.25 0.25 50 ug/L EPA 515.3 BM-NH 10/05/16 12:34 AM ug/L 2,4-D* <1 70 ug/L EPA 515.3 BM-NH 10/05/16 12:34 AM ug/L 1 Dalapon* <1 1 200 ug/L EPA 515.3 BM-NH 10/05/16 12:34 AM ug/L Date Extracted KV-NH 10/04/16 9:50 AM No Limit EPA 515.3 Dicamba* < 0.18 ug/L 0.18 No Limit EPA 515.3 BM-NH 10/05/16 12:34 AM Dinoseb* < 0.5 ug/L 0.5 7 ug/L EPA 515.3 BM-NH 10/05/16 12:34 AM Pentachlorophenol* < 0.1 ug/L J 0.1 1 ug/L EPA 515.3 BM-NH 10/05/16 12:34 AM Picloram* <1.3 1.3 500 ug/L EPA 515.3 BM-NH 10/05/16 12:34 AM ug/L 2,4-Dichlorophenylacetic acid No Limit 111 % EPA 515.3 - SS BM-NH 10/05/16 12:34 AM Alachlor* < 0.1 ug/L J 0.1 2 ug/L EPA 525.2 DD-NH 10/06/16 7:29 PM Aldrin* < 0.1 0.1 No Limit DD-NH 10/06/16 7:29 PM ug/L EPA 525.2 Atrazine* < 0.1 0.1 3 ug/L EPA 525.2 DD-NH 10/06/16 7:29 PM ug/L J Benzo(a)pyrene* EPA 525.2 < 0.1 0.1 0.2 ug/L DD-NH 10/06/16 7:29 PM ug/L Butachlor* < 0.1 No Limit DD-NH 10/06/16 7:29 PM ug/L 0.1 EPA 525.2 Date Extracted No Limit EPA 525.2 KV-NH 10/05/16 10:05 AM Di(2-ethylhexyl)adipate* <0.6 ug/L 0.6 400 ug/L EPA 525.2 DD-NH 10/06/16 7:29 PM J Di(2-ethylhexyl)phthalate* DD-NH 10/06/16 7:29 PM <3 ug/L 3 6 ug/L EPA 525.2

0.04

No Limit

EPA 525.2

DD-NH 10/06/16 7:29 PM

Dieldrin*

< 0.04

ug/L

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			Fails EPA Proposed Limit 🗙
SAMPLE ID#:	1609-02996-002	DATE AND TIME COLLECTED:	09/27/2016 3:40 PM
SAMPLED BY:	Alpha Analytical	DATE AND TIME RECEIVED:	09/29/2016 11:10 AM
		ANALYSIS PACKAGE:	SOC GSA MA
SAMPLE ADDRESS:	IW-1	RECEIPT TEMPERATURE:	ON ICE 4.5 CELSIUS
	МА	CLIENT JOB # L1630673	

LOCATION:

Test Description	Results	Test Units	Pass /Fail	DQ Flag	RL	EPA Limit	Method	Analyst	Date-Time Analyzed
Endrin*	<0.1	ug/L	~		0.1	2 ug/L	EPA 525.2	DD-NH 🔅	10/06/16 7:29 PM
Heptachlor Epoxide*	<0.06	ug/L	 I 		0.06	0.2 ug/L	EPA 525.2	DD-NH 3	10/06/16 7:29 PM
Heptachlor*	<0.04	ug/L	1		0.04	0.4 ug/L	EPA 525.2	DD-NH 3	10/06/16 7:29 PM
Hexachlorobenzene*	<0.1	ug/L	 I 		0.1	1 ug/L	EPA 525.2	DD-NH 3	10/06/16 7:29 PM
Hexachlorocyclopentadiene*	<0.1	ug/L	1		0.1	50 ug/L	EPA 525.2	DD-NH 3	10/06/16 7:29 PM
Lindane*	<0.07	ug/L	 I 		0.07	0.2 ug/L	EPA 525.2	DD-NH 3	10/06/16 7:29 PM
Methoxychlor*	<0.1	ug/L	1		0.1	40 ug/L	EPA 525.2	DD-NH 3	10/06/16 7:29 PM
Metolachlor*	<0.1	ug/L			0.1	No Limit	EPA 525.2	DD-NH 3	10/06/16 7:29 PM
Metribuzin*	<0.1	ug/L			0.1	No Limit	EPA 525.2	DD-NH 3	10/06/16 7:29 PM
Propachlor*	<0.1	ug/L			0.1	No Limit	EPA 525.2	DD-NH 3	10/06/16 7:29 PM
Simazine*	<0.1	ug/L	1		0.1	4 ug/L	EPA 525.2	DD-NH 3	10/06/16 7:29 PM
1,3-Dimethyl-2-nitrobenzene	102	%				No Limit	EPA 525.2 - SS	DD-NH 3	10/06/16 7:29 PM
Perylene-d12	91	%				No Limit	EPA 525.2 - SS	DD-NH 3	10/06/16 7:29 PM
Pyrene-d10	100	%				No Limit	EPA 525.2 - SS	DD-NH 3	10/06/16 7:29 PM
Triphenylphosphate	106	%				No Limit	EPA 525.2 - SS	DD-NH 3	10/06/16 7:29 PM
3-Hydroxycarbofuran*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	10/04/16 4:49 PM
Aldicarb Sulfone*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	10/04/16 4:49 PM
Aldicarb Sulfoxide*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	10/04/16 4:49 PM
Aldicarb*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	10/04/16 4:49 PM
Carbaryl*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	10/04/16 4:49 PM
Carbofuran*	<0.9	ug/L	1		0.9	40 ug/L	EPA 531.1	BM-NH 3	10/04/16 4:49 PM
Methiocarb*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	10/04/16 4:49 PM
Methomyl*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	10/04/16 4:49 PM
Oxamyl (Vydate)*	<1	ug/L	1		1	200 ug/L	EPA 531.1	BM-NH 3	10/04/16 4:49 PM
Propoxur (Baygon)*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 3	10/04/16 4:49 PM
Glyphosate*	<6	ug/L	1		6	700 ug/L	EPA 547	BM-NH 3	10/08/16 2:16 AM

		22 Manc Phone (800) 699-9920	TE ANALYTICAL S hester Road, Unit 2, Derry, 1 (603) 432-3044 www.granitestateanalytic	NH 03038 Fax (603) 434-4837
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		ANAL	YSIS PACKAGE:	SOC GSA MA
SAMPLE ADDRESS:	IW-1	RECE	IPT TEMPERATURE:	ON ICE 4.5 CELSIUS
		CLIE	NT JOB # L1630673	3
LOCATION:	MA			
Test Description	Results Test U	nits Pass DQ RL /Fail Flag	EPA Limit Meth	od Analyst Date-Time Analyzed

The results presented in this report relate to the samples listed above in the condition in which they were received. RL: "Reporting limit" means the lowest level of an analyte that can be accurately recovered from the matrix of interest.

Data Qualifier (DQ) Flags: None

* MA Certified Analysis

Donalla. L.C.

Donald J. D'Anjou, Ph. D. Laboratory Director

This analysis meets Commonwealth of Massachusetts requirements except as noted. State Certifications: | NH 1015 | MA M-NH003 | ME NH00003 | RI 101513 | VT VT-101507 | This certificate shall not be reproduced, except in full, without the written approval of Granite State Analytical Services, LLC

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CLIENT ADDRESS:	8 Walkup Dr.		Fails EPA Primary 🛛 🚫
	Westborough, MA 01581		Fails EPA Secondary 🛛 💙
			Fails EPA Proposed Limit 🗙
SAMPLE ID#:	1609-02996-003	DATE AND TIME COLLECTED:	09/27/2016 4:30 PM
SAMPLED BY:	Alpha Analytical	DATE AND TIME RECEIVED:	09/29/2016 11:10 AM
		ANALYSIS PACKAGE:	SOC GSA MA
SAMPLE ADDRESS:	MW-7	RECEIPT TEMPERATURE:	ON ICE 4.5 CELSIUS
	MA	CLIENT JOB # L1630673	

LO	CA	I	P	υ	r	V	:	

Test Description	Results	Test Units	Pass /Fail	DQ Flag	RL	EPA Limit	Method	Analyst	Date-Time Analyzed
1,2-Dibromo-3-chloropropane (DBCP)*	<0.02	ug/L	1		0.02	0.2 ug/L	EPA 504.1	BM-NH	10/04/16 9:19 PM
Date Extracted	-					No Limit	EPA 504.1	ND-NH	10/04/16 9:50 AM
Ethylene Dibromide (EDB)*	< 0.02	ug/L	1		0.02	0.05 ug/L	EPA 504.1	BM-NH	10/04/16 9:19 PM
Aroclor 1016	<0.2	ug/L			0.2	No Limit	EPA 505	BM-NH	10/05/16 11:39 PM
Aroclor 1221	<0.2	ug/L			0.2	No Limit	EPA 505	BM-NH	10/05/16 11:39 PM
Aroclor 1232	<0.2	ug/L			0.2	No Limit	EPA 505	BM-NH	10/05/16 11:39 PM
Aroclor 1242	<0.2	ug/L			0.2	No Limit	EPA 505	BM-NH	10/05/16 11:39 PM
Aroclor 1248	<0.2	ug/L			0.2	No Limit	EPA 505	BM-NH	10/05/16 11:39 PM
Aroclor 1254	<0.2	ug/L			0.2	No Limit	EPA 505	BM-NH	10/05/16 11:39 PM
Aroclor 1260	<0.2	ug/L			0.2	No Limit	EPA 505	BM-NH	10/05/16 11:39 PM
Chlordane*	<0.2	ug/L	1		0.2	2 ug/L	EPA 505	BM-NH	10/05/16 11:39 PM
Date Extracted	-					No Limit	EPA 505	ND-NH	10/04/16 9:50 AM
Toxaphene*	<1.0	ug/L	1		1.0	3 ug/L	EPA 505	BM-NH	10/05/16 11:39 PM
2,4,5-TP (Silvex)*	<0.25	ug/L	1		0.25	50 ug/L	EPA 515.3	BM-NH	10/05/16 1:02 AM
2,4-D*	<1	ug/L	1		1	70 ug/L	EPA 515.3	BM-NH	10/05/16 1:02 AM
Dalapon*	<1	ug/L	1		1	200 ug/L	EPA 515.3	BM-NH	10/05/16 1:02 AM
Date Extracted	-					No Limit	EPA 515.3	KV-NH	10/04/16 9:50 AM
Dicamba*	<0.18	ug/L			0.18	No Limit	EPA 515.3	BM-NH	10/05/16 1:02 AM
Dinoseb*	<0.5	ug/L	1		0.5	7 ug/L	EPA 515.3	BM-NH	10/05/16 1:02 AM
Pentachlorophenol*	<0.1	ug/L	1		0.1	1 ug/L	EPA 515.3	BM-NH	10/05/16 1:02 AM
Picloram*	<1.3	ug/L	1		1.3	500 ug/L	EPA 515.3	BM-NH	10/05/16 1:02 AM
2,4-Dichlorophenylacetic acid	119	%				No Limit	EPA 515.3 - SS	BM-NH	10/05/16 1:02 AM
Alachlor*	<0.1	ug/L	1		0.1	2 ug/L	EPA 525.2	DD-NH	10/06/16 7:57 PM
Aldrin*	<0.1	ug/L			0.1	No Limit	EPA 525.2	DD-NH	10/06/16 7:57 PM
Atrazine*	<0.1	ug/L	1		0.1	3 ug/L	EPA 525.2	DD-NH	10/06/16 7:57 PM
Benzo(a)pyrene*	<0.1	ug/L	1		0.1	0.2 ug/L	EPA 525.2	DD-NH	10/06/16 7:57 PM
Butachlor*	<0.1	ug/L			0.1	No Limit	EPA 525.2	DD-NH	10/06/16 7:57 PM
Date Extracted	-					No Limit	EPA 525.2	KV-NH	10/05/16 10:05 AM
Di(2-ethylhexyl)adipate*	<0.6	ug/L	1		0.6	400 ug/L	EPA 525.2	DD-NH	10/06/16 7:57 PM
Di(2-ethylhexyl)phthalate*	<3	ug/L	1		3	6 ug/L	EPA 525.2	DD-NH	10/06/16 7:57 PM
Dieldrin*	<0.04	ug/L			0.04	No Limit	EPA 525.2	DD-NH	10/06/16 7:57 PM

GRANITE STATE ANALYTICAL SERVICES, LLC

22 Manchester Road, Unit 2, Derry, NH 03038

Phone (800) 699-9920

(603) 432-3044 http://www.granitestateanalytical.com/

Fax (603) 434-4837

CERTIFICATE OF ANALYSIS FOR DRINKING WATER

DATE PRINTED:	10/10/2016		Legend
CLIENT NAME:	Alpha Analytical		Passes 🧹
CLIENT ADDRESS:	8 Walkup Dr.		Fails EPA Primary 🛛 🚫
	Westborough, MA 01581		Fails EPA Secondary 🛛 💙
			Fails EPA Proposed Limit 🗙
SAMPLE ID#:	1609-02996-003	DATE AND TIME COLLECTED:	09/27/2016 4:30 PM
SAMPLED BY:	Alpha Analytical	DATE AND TIME RECEIVED:	09/29/2016 11:10 AM
		ANALYSIS PACKAGE:	SOC GSA MA
SAMPLE ADDRESS:	MW-7	RECEIPT TEMPERATURE:	ON ICE 4.5 CELSIUS
	MA	CLIENT JOB # L1630673	

LOCATION:

Test Description	Results	Test Units	Pass /Fail	DQ Flag	RL	EPA Limit	Method	Analyst	Date-Time Analyzed
Endrin*	<0.1	ug/L	~		0.1	2 ug/L	EPA 525.2	DD-NH 1	0/06/16 7:57 PM
Heptachlor Epoxide*	<0.06	ug/L	1		0.06	0.2 ug/L	EPA 525.2	DD-NH 1	0/06/16 7:57 PM
Heptachlor*	< 0.04	ug/L	1		0.04	0.4 ug/L	EPA 525.2	DD-NH 1	0/06/16 7:57 PM
Hexachlorobenzene*	<0.1	ug/L	 I 		0.1	1 ug/L	EPA 525.2	DD-NH 1	0/06/16 7:57 PM
Hexachlorocyclopentadiene*	<0.1	ug/L	1		0.1	50 ug/L	EPA 525.2	DD-NH 1	0/06/16 7:57 PM
Lindane*	<0.07	ug/L	 I 		0.07	0.2 ug/L	EPA 525.2	DD-NH 1	0/06/16 7:57 PM
Methoxychlor*	<0.1	ug/L	1		0.1	40 ug/L	EPA 525.2	DD-NH 1	0/06/16 7:57 PM
Metolachlor*	<0.1	ug/L			0.1	No Limit	EPA 525.2	DD-NH 1	0/06/16 7:57 PM
Metribuzin*	<0.1	ug/L			0.1	No Limit	EPA 525.2	DD-NH 1	0/06/16 7:57 PM
Propachlor*	<0.1	ug/L			0.1	No Limit	EPA 525.2	DD-NH 1	0/06/16 7:57 PM
Simazine*	<0.1	ug/L	1		0.1	4 ug/L	EPA 525.2	DD-NH 1	0/06/16 7:57 PM
1,3-Dimethyl-2-nitrobenzene	107	%				No Limit	EPA 525.2 - SS	DD-NH 1	0/06/16 7:57 PM
Perylene-d12	98	%				No Limit	EPA 525.2 - SS	DD-NH 1	0/06/16 7:57 PM
Pyrene-d10	99	%				No Limit	EPA 525.2 - SS	DD-NH 1	0/06/16 7:57 PM
Triphenylphosphate	121	%				No Limit	EPA 525.2 - SS	DD-NH 1	0/06/16 7:57 PM
3-Hydroxycarbofuran*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 1	.0/04/16 5:35 PM
Aldicarb Sulfone*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 1	0/04/16 5:35 PM
Aldicarb Sulfoxide*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 1	0/04/16 5:35 PM
Aldicarb*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 1	0/04/16 5:35 PM
Carbaryl*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 1	.0/04/16 5:35 PM
Carbofuran*	<0.9	ug/L	1		0.9	40 ug/L	EPA 531.1	BM-NH 1	0/04/16 5:35 PM
Methiocarb*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 1	.0/04/16 5:35 PM
Methomyl*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 1	0/04/16 5:35 PM
Oxamyl (Vydate)*	<1	ug/L	1		1	200 ug/L	EPA 531.1	BM-NH 1	0/04/16 5:35 PM
Propoxur (Baygon)*	<1	ug/L			1	No Limit	EPA 531.1	BM-NH 1	0/04/16 5:35 PM
Glyphosate*	<6	ug/L	1		6	700 ug/L	EPA 547	BM-NH 1	0/08/16 3:00 AM

		22 Manch Phone (800) 699-9920	TE ANALYTICAL S ester Road, Unit 2, Derry, 1 (603) 432-3044 www.granitestateanalytica	NH 03038 Fax (603) 434-4837
	CERTIFICATE (F ANALYSIS FOR	DRINKING WATE	ĒR
DATE PRINTED:	10/10/2016			Legend
CLIENT NAME:	Alpha Analytical			Passes 🧹
CLIENT ADDRESS:	8 Walkup Dr.			Fails EPA Primary 🛛 🚫
	Westborough, MA 01581			Fails EPA Secondary 🛛 🗸
				Fails EPA Proposed Limit 🗙
SAMPLE ID#:	1609-02996-003	DATE	AND TIME COLLECTED:	09/27/2016 4:30 PM
SAMPLED BY:	Alpha Analytical	DATE	AND TIME RECEIVED:	09/29/2016 11:10 AM
		ANAL	YSIS PACKAGE:	SOC GSA MA
SAMPLE ADDRESS:	MW-7	RECE	IPT TEMPERATURE:	ON ICE 4.5 CELSIUS
	МА	CLIEN	IT JOB # L1630673	3
LOCATION:	ШA			
Test Description	Results Test L	nits Pass DQ RL /Fail Flag	EPA Limit Meth	od Analyst Date-Time Analyzed

The results presented in this report relate to the samples listed above in the condition in which they were received. RL: "Reporting limit" means the lowest level of an analyte that can be accurately recovered from the matrix of interest.

Data Qualifier (DQ) Flags: None

* MA Certified Analysis

Donalla. L.C.

Donald J. D'Anjou, Ph. D. Laboratory Director

This analysis meets Commonwealth of Massachusetts requirements except as noted. State Certifications: | NH 1015 | MA M-NH003 | ME NH00003 | RI 101513 | VT VT-101507 | This certificate shall not be reproduced, except in full, without the written approval of Granite State Analytical Services, LLC

Nitrate Report

	WS INFORMAT	10N: Please 3206000	refer to your DEP \	-	pling Schedule City / Town: [e (WQSS) to hel	· ·	this form	,
	S Name:								
		γ					,		
1	LOCATION (LOC) ID#		DEP Location Na	ne	Sample i	Sample Information Ac		Date Collected	Collected By
Α	10001	Wtp-Finis	h		(M)ultiple ⊠ (S)ingle	☐ (R)aw ⊠ (F)inished	Yes 🗌	3/5/2014	P.C.
в	10278	#2 Well			(M)ultiple (S)ingle	(R)aw (F)inished	Yes 🗌	3/5/2014	P.C.
С					(M)ultiple (S)ingle	(R)aw (F)inished (R)aw	Yes 🗌		
D					(M)ultiple (S)ingle	(R)aw (F)inished	Yes 🗌		
	Routine or Special Sample		iginal, Resubmitted o Confirmation Report	r	(1) Reason fo	If Resubmitte r Resubmission	ana		of Original Sample
Α	🖾 RS 🗌 SS	🛛 Original	Resubmitted Co	nfirmation	sample 🗌 Reana	lysis 🗌 Report Cor	rection		
в	🖾 RS 🔲 SS	🖾 Original	Resubmitted Co	nfirmation	sampie 🗌 Reana	lysis 🔲 Report Cor	rection		
С		C Original	Resubmitted Co	nfirmation 🔲 Re	sample 🗌 Reana	lysis 🗌 Report Cor	rection		
D	🗆 RS 🔲 SS	🗋 Original	Resubmitted Co	nfirmation 🛛 🗌 Re	sample 🗌 Reana	lysis 🗌 Report Cor	rection		
	SAMPLE NOTES -	(Such as, if a M	lanifold/Multiple sample	, list the sources that	were on-line durin	g sample collection).		
Α									
В									
С									
D									
.II. A	NALYTICAL LA	BORATOR		:					
Prin	nary Lab MA Cert	. #: M-RIO	10 Primary La	b Name: New En	gland Testing La	ıb		Subcontracte	d? (Y/N) N
	llysis Lab MA Cer		Analysis La	·	······		······		
	NITRATE Result (mg/L)	MCL (mg/L)	MDL (mg/L)	Lab N	fethod	Date	Analyzed	Sa	Lab ample ID#
Α	0.93	10	0.03	4500-	NO3-E	3/5	5/2014	A	0305-13c
в	1.19	10	0.03	4500-	NO3-E	3/5	5/2014	A	0305-13d
С	·····	10							
D		10							
Finis		ceeding the MCL	ng ½ of the MCL (5 mg . of 10 mg/L requires co s.						·
	LAB SAMPLE NO	TES							
Α									
в				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
С									
D			a ka ana ang ang ang ang ang ang ang ang an					nin 170 <u>martin dan sama pin</u> in	gini alal and a gay conjuganda a da gaya.
auth			law that I am the formation contained h		mary Lab Dir	rector Signatu	re: <u>Baba</u> u	Carl	
			xtent of my knowledge.			Da	te: 4/8/20	014	
lf n			onically, mail <u>TWO</u> c ived this report or no						end of the month

DEP REVIEW STATUS (Initial & Date)			
DEP REVIEW STATUS (IIIIIal & Date)	I Review		I 🗖 WQTS
, , , , ,	110101		
	Commonte		Data Entered
Accepted Disapproved	Comments	1	Data chiereu

Ν

I. PWS INFORMATION: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form

P٧	/S ID #: [3206000	: NEWBUF	NEWBURYPORT				
PWS Name:		Newburyport Water Works	PW	PWS Class: COM 🛛 NTNC 🗌 TNC 🗌				
E	DEP LOCATION (LOC) ID#	DEP Location Name			formation	Date Collected	Collected By	
A	10001	Wtp-Finish		☐ (M)ultiple ⊠ (S)ingle	☐ (R)aw ⊠ (F)inished	3/5/2014	P.C.	
в	10278	#2 Well		☐ (M)ultiple ⊠ (S)ingle	☐ (R)aw ⊠ (F)inished	3/5/2014	P.C.	
С				(M)ultiple (S)ingle	☐ (R)aw ☐ (F)inished			
D				(M)ultiple (S)ingle	☐ (R)aw ☐ (F)inished			
	Routine or	Original, Resubmitted or		If Resubmitted Report, list below:				
	Special Sample	Confirmation Report	(1) Reason for Resubmission			(2) Collection Date of Original Sample		
Α	🖾 RS 🔲 SS	Original 🔲 Resubmitted 🗌 Confirmation	🗌 Resample 🗌 Re	analysis 🗌 Repo	ort Correction			
в	🖾 RS 🔲 SS	Original 🗍 Resubmitted 🗍 Confirmation	🗌 Resample 🗌 Re	analysis 🗌 Repo	ert Correction			
С	🗆 RS 🔲 SS	Original Resubmitted Confirmation	🗌 Resample 🗌 Re	analysis 🗌 Repo	ort Correction			
D	RS SS	Original 🔲 Resubmitted 🖾 Confirmation	🗌 Resample 🗋 Re	analysis 🗌 Repo	ort Correction			
	SAMPLE NOTES	- (Such as, if a Manifold/Multiple sample, list the so	urces that were on-line	e during sample c	ollection).			
Α								
в			<u></u>					
С						<u></u>		
D								
11 /							,	

URATURT INFORMATION

Primary Lab MA Cert. #:	M-RI010	Primary Lab Name:	New England Testing Lab	Subcontracted? (Y/N) N
Analysis Lab MA Cert.		Analysis Lab Name:		

	NITRITE Result (mg/L)	MCL (mg/L)	MDL (mg/L)	Lab Method	Date Analyzed	Lab Sample ID#
A	ND	1	0.007	4500-NO2-B	3/5/2014	A0305-13c
В	ND	1	0.007	4500-NO2-B	3/5/2014	A0305-13d
С		1				
D		1				
Fini		eding the MC	CL of 1 mg/L requires of	5 mg/L) triggers quarterly monitoring. confirmation sampling within 24 hours.		
	LAB SAMPLE NOTE	S				
Α						
В						
С						
D						· · · · · · · · · · · · · · · · · · ·

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Primary Lab Director Signature:

Date:

Richard 4/8/2014

If not submitting these results electronically, mail TWO copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date)	Review	UWQTS Data
Accepted Disapproved	Comments	Entered

Radionuclide Report

I. PWS INFORMATION: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #:	3206000		NEWBURYPORT				
PWS Name:	Newburyport Water Works		PWS Class: COM 🛛 NTNC 🗌 TNC 🗌				
DEP LOCATION (LOC) ID#	DEP Location Name	Sample Information		Date Collected	Collected By		
10278	10278 #2 Well		☐ (M)ultiple ⊠ (S)ingle	☐ (R)aw ⊠ (F)inished	3/5/2014	P.C.	
Routine or	Original, Resubmitted or		If Resubmitted Report, list below:				
Special Sample	Confirmation Report		(1) Reason for Resubmission			te of Original Sample	
Image: State Stat		ole 🗌 Reanalysis	Report Correction				
SAMPLE NOTES ~ (Such as, if a Manifold/Multiple sample, list any sources that were on-line line during sample collection).							

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab MA Cert. #:	M-RI010	Primary Lab Name:	New England Testing Lab	Subcontracted? (Y/N) Y
Was this sample composited by the Lab?		SAMPLE NOTES osited source by DEP Source	e Code (XXXXXXX-XXX) and dates collected, up to four co	onsecutive quarterly samples per single
LAB SAMPLE NOTES				

Contaminant	RESULT	Std Dev (+/-)	MCL	MDL	Lab Method	Date Analyzed	Lab Sample ID#	Analysis Lab MA Cert#	Analysis Lab Name		
GROSS ALPHA (pCi/L)	3.2	0.8		2.5	7110 B	3/26/2014	A0305-13d	M-IN035	UL		
URANIUM – activity (pCi/L)											
Report Uranium result and MDL in (pCi/L) as analyzed, otherwise use formula to calculate [Uranium µg/L x 0.67 = Uranium pCi/L]. Check this box if result is calculated 🗌											
ADJUSTED GROSS ALPHA (pCi/L)											
URANIUM ~ mass (μg/L)			30						n man de la de		
Report Uranium result and MDI	_ in (μ g/L) as a	nalyzed, oth	erwise us	se formula	to calculate [Uranium pC	i/L / 0.67 = Uraniu	ım μg/L]. Check	this box if result is	calculated 🔲		
RADIUM-226 (pCi/L)	0.60	0.47		0.65	7500-Ra B	3/27/2014	A0305-13d	M-IN035	UL.		
RADIUM-228 (pCi/L)	0.33	0.36		0.59	7500-Ra D	3/28/2014	A0305-13d	M-IN035	UL		
COMBINED RADIUM (pCi/L)	ND		5	A gross	L for Combined Radium (F alpha measurement may or less than 5 pCi/L. If gr	be substituted for	the radium-226	analysis, if the gros			
GROSS BETA (pCi/L)			*						an a fa da		
*The MCL for gross beta is 4 m constituents. Gross Beta testin						ton Activity shall	be performed to i	dentify the major ra	adioactive		
RADON (pCi/L)			**								
**Radon testing is optional, unl	ess specifically	required by	DEP. Th	ne MA guio	leline for Radon is 10,000	pCi/L. The EPA h	nas proposed a ra	adon MCL of 300 –	4000 pCi/L.		
l certify under penalties of law t fill out this form and the informa	tion contained	l herein is tru	э,	Prim	ary Lab Director Si	- <u></u>	Catulatio				
accurate and complete to the b	est extent of n	ıy knowledge				Date:	4/8/2014				
If not submitting these resu in which					s report to your DEP Re 10 days after the end c				nd of the month		

DEP REVIEW STATUS (Initial & Date)	Review	U WQTS
Accepted Disapproved	Comments	Data Entered

R



Volatile Organic Contaminant Report

I. PWS INFORMATION	: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form
--------------------	--

PWS ID #:	3206000	3206000 City / Town:				NEWBURYPORT				
PWS Name:	Newburyport Water Works	PWS Class: COM 🛛 NTNC 🗌 TNC 🗌								
DEP LOCATION (LOC) ID#	DEP Location Name		Sample Informati	on	Sample Acidified?	Date Collected	Collected By			
10278	#2 Well		☐ (M)ultiple X (S)ingle	☐ (R)aw ⊠ (F)inished	Yes 🛛	3/5/2014	P.C.			
Routine or	Original, Resubmitted or	If Resubmitted Report, list below:								
Special Sample	Confirmation Report	(1) Reason for Resubmission			(2) Co	ellection Date o	f Original Sample			
🖾 RS 🗌 SS	Original 🗌 Resubmitted 🔲 Confirmation	🗌 Resample [🗌 Reanalysis [Report Correction	on					
SAMPLE NOTES	- Such as, if a Manifold/Multiple sample, list the sour	rce(s) that were on	I-line during sar	nple collection.						

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab MA Cert. #:	M-RI010 Primary Lab Name:		New England Testing Lab		Subcontracted? (Y/N) N
Analysis Lab MA Cert. #:	Ana	alysis Lab Name:			
Lab Method	Date Extracted Date (551.1 only) Analyzed		Lab Sample ID#	LAB SAMPLE NOTES - Include information as to whether sample diluted or additional contaminants detected.	
524.2		3/7/2014	A0305-13d		
Was this Sample composited by the Lab?	COMPOSITE SAMP	PLE NOTES - Please l	ist the composited so	ources by DEP Source Code (XXXXXX	X-XXX), up to five individual sources.
Yes: No: 🛛					

CAS#	REGULATED VOC CONTAMINANT	Results µg/L	MCL μg/L	MDL µg/L
71-43-2	BENZENE	N.D.	5	0.5
56-23-5	CARBON TETRACHLORIDE	N.D.	5	0.5
75-35-4	1,1-DICHLOROETHYLENE	N.D.	7	0.5
107-06-02	1,2-DICHLOROETHANE	N.D.	5	0.5
106-46-7	PARA-DICHLOROBENZENE	N.D.	5	0.5
79-01-6	TRICHLOROETHYLENE (TCE)	N.D.	5	0.5
71-55-6	1,1,1-TRICHLOROETHANE	N.D.	200	0.5
75-01-4	VINYL CHLORIDE	N.D.	2	0.5
108-90-7	MONOCHLOROBENZENE	N.D.	100	0.5
95-50-1	O-DICHLOROBENZENE	N.D.	600	0.5
156-60-5	TRANS-1,2-DICHLOROETHYLENE	N.D.	100	0.5
156-59-2	CIS-1,2-DICHLOROETHYLENE	N.D.	70	0.5
78-87-5	1,2-DICHLOROPROPANE	N.D.	5	0.5
100-41-4	ETHYLBENZENE	N.D.	700	0.5
100-42-5	STYRENE	N.D.	100	0.5
127-18-4	TETRACHLOROETHYLENE (PCE)	N.D.	5	0.5
108-88-3	TOLUENE	N.D.	1000	0.5
1330-20-7	XYLENES (TOTAL)	N.D.	10000	0.5
75-09-2	DICHLOROMETHANE	N.D.	5	0.5
120-82-1	1,2,4-TRICHLOROBENZENE	N.D.	70	0.5
79-00-5	1,1,2-TRICHLOROETHANE	N.D.	5	0.5



Volatile Organic Contaminant Report

Page 2 of 3

VOC

PWS ID#:

3206000

Lab Sample ID#:

A0305-13d

CAS#	UNREGULATED VOC CONTAMINANTS	Results µg/L	MDL μg/L
67-66-3	CHLOROFORM*	N.D.	0.5
75-27-4	BROMODICHLOROMETHANE	N.D.	0.5
124-48-1	CHLORODIBROMOMETHANE	N.D.	0.5
75-25-2	BROMOFORM	N.D.	0.5
541-73-1	M-DICHLOROBENZENE	N.D.	0.5
74-95-3	DIBROMOMETHANE	N.D.	0.5
563-58-6	1,1-DICHLOROPROPENE	N.D.	0.5
75-34-3	1,1-DICHLOROETHANE*	N.D.	0.5
79-34-5	1,1,2,2-TETRACHLOROETHANE	N.D.	0.5
142-28-9	1,3-DICHLOROPROPANE	N.D.	0.5
74-87-3	CHLOROMETHANE	N.D.	0.5
74-83-9	BROMOMETHANE*	N.D.	0.5
96-18-4	1,2,3-TRICHLOROPROPANE	N.D.	0.5
630-20-6	1,1,1,2-TETRACHLOROETHANE	N.D.	0.5
75-00-3	CHLOROETHANE	N.D.	0.5
594-20-7	2,2-DICHLOROPROPANE	N.D.	0.5
95-49-8	O-CHLOROTOLUENE	N.D.	0.5
106-43-4	P-CHLOROTOLUENE	N.D.	0.5
108-86-1	BROMOBENZENE	N.D.	0.5
542-75-6	1,3-DICHLOROPROPENE*	N.D.	0.5
95-63-6	1,2,4-TRIMETHYLBENZENE	N.D.	0.5
87-61-6	1,2,3-TRICHLOROBENZENE	N.D.	0.5
103-65-1	N-PROPYLBENZENE	N.D.	0.5
104-51-8	N-BUTYLBENZENE	N.D.	0.5
91-20-3	NAPTHALENE*	N.D.	0.5
87-68-3	HEXACHLOROBUTADIENE	N.D.	0.5
108-67-8	1,3,5-TRIMETHYLBENZENE	N.D.	0.5
99-87-6	P-ISOPROPYLTOLUENE	N.D.	0.5
98-82-8	ISOPROPYLBENZENE	N.D.	0.5
98-06-6	TERT-BUTYLBENZENE	N.D.	0.5
135-98-8	SEC-BUTYLBENZENE	N.D.	0.5
75-69-4	FLUOROTRICHLOROMETHANE	N.D.	0.5
75-71-8	DICHLORODIFLUOROMETHANE*	N.D.	0.5
74-97-5	BROMOCHLOROMETHANE	N.D.	0.5
1634-04-4	METHYL TERTIARY BUTYL ETHER (MTBE)*	N.D.	0.5

-	ab Sample ID#.	A030.)-15u	
CAS#	UNREGULATE	DDITIONAL D and/or NON-TARGET DNTAMINANTS ed or otherwise detected)	Results μg/L	MDL µg/L
109-99-9	TETRAHYDROFL	JRAN (THF)*	N.D.	5.0
75-65-0	TERT-BUTYL AL	COHLOL (TBA)*	N.D.	0.5
1748-03-8	TERT-AMYL MET	THYL ETHER (TAME)*	N.D.	0.5
637-92-3	ETHYL TERTIAR	Y BUTYL ETHER (ETBE)	N.D.	0.5
108-20-3	DI-ISOPROPYL E	THER (DIPE)	N.D.	0.5
67-64-1	ACETONE*		N.D.	5.0
76-13-1	FREON 113*			
78-93-3	METHYL ETHYL	KETONE (MEK)*	N.D.	5.0
108-10-1	METHYL-ISOBUT	TYL KETONE (MIBK)*	N.D.	5.0
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	·····	······································		
		·····		

Check this box if attaching lab report to show additional VOC results/contaminants tested.

*Required

* DEP ORSG limit established.

Surrogate Name	% Recovery (70 – 130%)
1,2-Dichlorobenzene-d4	89
4-Bromofluorobenzene	98

Primary Lab Director Signature:

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Date: 4/8/2014

BahOlitas

If not submitting these results electronically, mail <u>TWO</u> copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner.

Perchlorate Report

I. PWS INFORMATION:	Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form
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PWS ID #:	3206000	NEWBURYPORT	-			
PWS Name:	WS Name: Newburyport Water Department PWS Class				: COM 🛛 N	
DEP LOCATION (LOC) ID#	DEP Location Name		Sam	ple Information	Date Collected	Collected By
10278	#2 Well		☐ (M)ultipl ⊠ (S)ingle		8/5/2014	P.C.
Routine or	Original, Resubmitted or			If Resubmitted Rep	ort, list below:	
Special Sample	Confirmation Report	(1)	Reason for I	Resubmission	(2) Collection Da	ate of Original Sample
🖾 RS 🔲 SS	Original 🗍 Resubmitted 🗍 Confirmation	🔲 Resampl	e 🗌 Reanaly	sis 🗌 Report Correction		
SAMPLE NOTES - (Such a	as, if a Manifold/Multiple sample, list any sources that	at were on-line	during collect	tion).		
······						

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab MA Cert. #:	M-RI010	Primary Lab Name:	New England Testing Lab	Subcontracted? (Y/N)	Y
Analysis Lab MA Cert. #:	M-IN035	Analysis Lab Name:	Underwriters Laboratory		

CONTAMINANT	Result	иом	MCL	MDL.	MRL	Lab Method	Date Analyzed	Lab Sample ID#
PERCHLORATE	0.39	µg/∟	2.0	0.012	0.05	331.0	08/16/2014	A0805-49
CONDUCTIVITY		umhos/cm						

Perchlorate analysis requires the use of a Massachusetts DEP approved laboratory.

Perchlorate concentrations between the Minimum Detection Limit (MDL) and the Minimum Reporting Level (MRL) must be reported as estimated (J) values (i.e. perchlorate is positively present but tentatively quantified).

All field samples with measured native perchlorate concentrations between 0.8 µg/L and 2.0 µg/L must be retested with and without a perchlorate spike approximately equal to the native perchlorate concentration.

LAB SAMPLE NOTES

Reanalysis and Spike Recovery (required for results between 0.8 µg/L and 2.0 µg/L or samples subject to pretreatment in method EPA 314.0)

Compound	Result (µg/L)	MDL (µg/L)	MRL (µg/L)	Spike Concentration (µg/L)	Spike Recovery (%)	Lab Method	Date Analyzed
Perchlorate (reanalysis)							
Perchlorate (spike)							

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authorized	to	fill ou	t this	form	and	the	int	forma	tion	соі	ntain	ed h	erein is	s
true, accura	ate	and c	omple	ete to	the l	best	ex	tent c	of my	kn	owle	dge.		

Primary	Lab	Director	Signature:	Richard
i innaiy		Director	orginataro.	Nin Unit

Date: 9/4/2014

If not submitting these results electronically, mail <u>TWO</u> copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date)	Review	U WQTS
Accepted Disapproved	Comments	Data Entered



Secondary Contaminant Report

I. PWS INFORMATION: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form

P٧	/S ID #: 3	206000	City	/ Town:	NEW	BURYPORT		
PW	/S Name: N	ewburyport Water Department				PWS Class:		
	DEP LOCATION (LOC) ID#	DEP Location Name		Sample Information			Date Collected	Collected By
A	10001		☐ (M)ult ⊠ (S)ing		☐ (R)aw ⊠ (F)inished	8/5/2014	07:30	
в	10278 #2 Well			☐ (M)ulti ⊠ (S)ing		☐ (R)aw ⊠ (F)inished	8/5/2014	08:00
	Routine or	Original, Resubmitted or				If Resubmitted Re	port, list below:	ander 100 - 100 gauge auto-solution i agent des 2000-0000 auto-sous-sous-
	Special Sample	Confirmation Report	(1	(1) Reason for Resubmission (2) Collection Date of Original S				
Α	🖾 RS 🔲 SS	☑ Original	🗌 Resamp	le 🗌 Rean	alysis 🗌	Report Correctior	1	
В	🖾 RS 🗌 SS	☑ Original	🗌 Resamp	le 🔲 Rean	alysis 🗌	Report Correction		
	SAMPLE NOTES -	(Such as, if a Manifold/Multiple sample, list any sc	ources that we	re on-line d	uring sa	ample collection).		
Α								
в								

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab MA Cert. #:	M-RI010	Primary	Lab Name:	New Eng	land Testing Lab		Subcontracted? (Y/N) N
Analysis Lab MA Cert. #:		Analysis	Lab Name:		······································	······	
Compound		uits	SMCL	MDL	Lab Method	Date	Lab Sample ID#
·	A	В	ļ	(mg/L)		Analyzed	·
IRON (mg/L)			0.3				
MANGANESE (mg/L)	0.015	0.024	0.05*	0.005	SM 3120B	8/12/2014	A0805-49
ALKALINITY (mg/L as CaCO3)			None				
CALCIUM (mg/L)			None				
MAGNESIUM (mg/L)			None				
HARDNESS (mg/L as CaCO3)			None				
POTASSIUM (mg/L)			None		······································		
TURBIDITY (NTU)			None				
ALUMINUM (mg/L)			0.2		·····		
CHLORIDE (mg/L)			250				
COLOR (C.U.)			15				
COPPER (mg/L)			1		<u></u>		
ODOR (T.O.N)			3				
рН			6.5-8.5				
SILVER (mg/L)			0.10				
SULFATE (mg/L)			250		· · · · · · · · · · · · · · · · · · ·		
TDS (mg/L)			500				
ZINC (mg/L)			5				
* EPA has established a lifetime	Health Advisor	y (HA) for mang	anese at 0.3 m	g/L and an a	acute HA at 1.0 mg/L.		
LAB SAMPLE NOTES							
A							
В							
I certify under pena person authorized to fill out this	s form and the	information			Primary Lab Director	Signature: 🔗	Coulde

contained herein is true, accurate and complete to the extent of my knowledge.

Dat	e: 9/4/2014

If not submitting these results electronically, mail <u>TWO</u> copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date)	Review	U WQTS Data
Accepted Disapproved	Comments	Entered

Perchlorate Report

A. PWS INFORMATION: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #:	3206000	City	/ Town:	NE	EWBURYPORT		
PWS Name:	Newburyport Water Department	· · · · · · · · · · · · · · · · · · ·			PWS Class:	COM 🛛 N	
DEP LOCATION (LOC) ID#	DEP Location Name		Sam	ple I	Information	Date Collected	Collected By
	#2 Well		☐ (M)ultipl Ø (S)ingle		☐ (R)aw ⊠ (F)inished	9/2/2015	T.S.
Routine or	Original, Resubmitted or			lf	f Resubmitted Repo	rt, list below:	
Special Sample	Confirmation Report	(1)	Reason for I	Resu	ubmission	(2) Collection Da	te of Original Sample
🖾 RS 🗌 SS	Original 🗍 Resubmitted 🗌 Confirmation	🗆 Resample	e 🔲 Reanaly	sis 🗆	Report Correction		
SAMPLE NOTES - (Such as	, if a Manifold/Multiple sample, list any sources tha	t were on-line	during collect	tion).	entranting (http://doing		
					· · · · · ·		

II. ANALYTICAL LABOR	RATORY INF	ORMATION:			
Primary Lab MA Cert. #:	M-RI010	Primary Lab Name:	New England Testing Lab	Subcontracted? (Y/N) Y	-
Analysis Lab MA Cert. #:	M-IN035	Analysis Lab Name:	Eurofins Eaton Analytical		

CONTAMINANT	Result	UOM	MCL	MDL	MRL	Lab Method	Date Analyzed	Lab Sample ID#
PERCHLORATE	0.38	µg/L	2.0	0.012	0.05	331.0	09/18/2015	B0902-27C
CONDUCTIVITY		umhos/cm						

Perchlorate analysis requires the use of a Massachusetts DEP approved laboratory.

Perchlorate concentrations between the Minimum Detection Limit (MDL) and the Minimum Reporting Level (MRL) must be reported as estimated (J) values (i.e. perchlorate is positively present but tentatively quantified).

All field samples with measured native perchlorate concentrations between 0.8 µg/L and 2.0 µg/L must be retested with and without a perchlorate spike approximately equal to the native perchlorate concentration.

LAB SAMPLE NOTES

Reanalysis and Spike Recovery (required for results between 0.8 µg/L and 2.0 µg/L or samples subject to pretreatment in method EPA 314.0)

Compound	Result (µg/L)	MDL (µg/L)	MRL (µg/L)	Spike Concentration (µg/L)	Spike Recovery (%)	Lab Method	Date Analyzed
Perchlorate (reanalysis)							
Perchlorate (spike)							

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

imary	Lab	Director	Signature:	Balling
				(Julian Contraction of the second sec

Date: 9/22/2015

If not submitting these results electronically, mail <u>TWO</u> copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner.

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DEP REVIEW STATUS (Initial & Date)	Review	U WQTS
Accepted Disapproved	Comments	Data Entered

Synthetic Organic Contaminant Report

Page 1 of 2

SOC

J. PWS INFOR	MAT	ION: Please refer to your DEP Water	Quality Sam	pling Schedul	e (WQSS) to hel	p complete this fo	rm
PWS ID #: 3206000		(City / Town:	NEWBURYP	ORT		
PWS Name:		Newburyport Water Department			PWSC	lass: COM 🛛	
DEP LOCATION (LOC) ID#		DEP Location Name		Sample I	nformation	Date Collected	Collected By
10278	#2 \	Well		☐ (M)ultiple ⊠ (S)ingle	⊠ (R)aw □ (F)inished	12/8/2015	T.S.
Routine or		Original, Resubmitted or			If Resubmitted	Report, list below:	
Special Sample		Confirmation Report	(1)	Reason for Res	ubmission	(2) Collection	Date of Original Sample
🖾 RS 🗌 SS	Þ	Original 🔲 Resubmitted 🔲 Confirmation	🗆 Resampl	e 🔲 Reanalysis [Report Correctio	n	
SAMPLE NOTES	– (Suc	h as, if a Manifold/Multiple sample, list any sou	urces that were o	on-line during san	nple collection).		

II. ANALYTICAL LABORATORY INFORMATION: Primary Lab MA Cert. #: M-RI010 Primary Lab Name: New England Testing Lab Subcontracted? (Y/N) Y/N **Analytical Methods** Date Date Analysis Lab Analysis Lab Name Lab Sample ID# (List All) Extracted Analyzed MA Cert# 12/9/2015 12/9/2015 M-RI010 New England Testing Lab B1208-15D 504.1 B1208-15D 505 12/9/2015 12/9/2015 M-RI010 New England Testing Lab 515.3 12/11/2015 12/12/2015 M-RI010 New England Testing Lab B1208-15D 525.2 12/10/2015 12/10/2015 M-RI010 New England Testing Lab B1208-15D 531.2 12/16/2015 M-CT008 **Microbac Laboratories** E512939 Was this Sample COMPOSITE SAMPLE NOTES - Please list the composited sources by DEP Source Code (XXXXXX-XXX), up to five individual sources. composited by the Lab? LAB SAMPLE NOTES - Information on matrix spike/method blank sample information is on file at our office.

CAS #	SOC Regulated Contaminants	Result µg/L	MCL µg/L	MDL µg/L	Analytical Method
1563-66-2	CARBOFURAN	<0.90	40	0.9	531.2
23135-22-0	OXAMYL (VYDATE)	<2.0	200	2.0	531.2
94-75-7	2,4-D	<0.1	70	0.1	515.3
93-72-1	2,4,5-TP (SILVEX)	<0.2	50	0.2	515.3
75-99-0	DALAPON	<1.0	200	1.0	515.3
88-85-7	DINOSEB	<0.2	7	0.2	515.3
1918-02-1	PICLORAM	<0.1	500	0.1	515.3
87-86-5	PENTACHLOROPHENOL	<0.04	1	0.04	515.3
15972-60-8	ALACHLOR	<0.2	2	0.2	525.2
1912-24-9	ATRAZINE	<0.1	3	D.1	525.2
72-20-80	ENDRIN	<0.05	2	0.05	525.2
76-44-8	HEPTACHLOR	<0.04	0.4	0.04	525.2
1024-57-3	HEPTACHLOR EPOXIDE	<0.04	0.2	0.04	525.2
58-89-9	LINDANE	<0.04	0.2	0.04	525.2
72-43-5	METHOXYCHLOR	<0.1	40	0.1	525.2
118-74-1	HEXACHLOROBENZENE	<0.1	1	0.1	525.2
77-47-4	HEXACHLOROCYCLOPENTADIENE	<0.1	50	0.1	525.2
122-34-9	SIMAZINE	<0.2	4	0.2	525.2
50-32-8	BENZO(A)PYRENE	< 0.05	0.2	0.05	525.2
103-23-1	DI(2-ETHYLHEXYL)ADIPATE	<0.6	400	0.6	525.2
117-81-7	DI(2-ETHYLHEXYL)PHTHALATE	<1.3	6	1.3	525.2



Synthetic Organic Contaminant Report

Page 2 of 2

SOC

CAS #	SOC Regulated Contaminants	Result µg/L	MCL µg/L	MDL µg/L	Analytical Method
57-74-9	CHLORDANE	<0.2	2	0.2	505
8001-35-2	TOXAPHENE	<1.0	3	1.0	505
12674-11-2	PCB AROCLOR 1016	<0.23		0.23	505
11104-28-2	PCB AROCLOR 1221	<0.14		0.14	505
11141-16-5	PCB AROCLOR 1232	<0.09		0.09	505
53469-21-9	PCB AROCLOR 1242	<0.08		0.08	505
12672-29-6	PCB AROCLOR 1248	<0.16		0.16	505
11097-69-1	PCB AROCLOR 1254	<0.10		0.10	505
11096-82-5	PCB AROCLOR 1260	<0.13		0.13	505
1336-36-3	PCBS (DECACHLOROBIPHENYL)		0.5		· · · · · · · · · · · · · · · · · · ·
	Monitoring requirements for DBCP and EDB All groundwater sou	have been waived stat rces must monitor for t			ES <u>ONLY</u> .
96-12-8	DIBROMOCHLOROPROPANE (DBCP)	<0.02	0.2	0.02	504.1
106-93-4	ETHYLENEDIBROMIDE (EDB)	<0.01	0.02	0.01	504.1
Monitor	ing requirements for the following four contaminants I monitoring and reporting for Diqu				e water sources, however
85-00-7	DIQUAT		20		
145-73-3	ENDOTHALL		100		
1071 - 53-6	GLYPHOSATE		700		
1746-01-6	2,3,7,8-TCDD (DIOXIN)		3.0x10 ⁻⁵		······································

CAS#	SOC Unregulated Contaminants	Result µg/L	ORSG µg/L	MDL µg/L	Analytical Method
116-06-3	ALDICARB	<0.50	3*	0.50	531.2
1646-88-4	ALDICARB SULFONE	<0.80	2*	0.80	531.2
1646-87-3	ALDICARB SULFOXIDE	<0.50	4*	0.50	531.2
63-25-2	CARBARYL	<0.50		0.50	531.2
16655-82-6	3-HYDROXYCARBOFURAN	<0.50		0.50	531.2
16752-77-5	METHOMYL	<0.50		0.50	531.2
1918-00-9	DICAMBA	<0.2		0.2	515.3
309-00-2	ALDRIN	<0.1		0.1	525.2
23184-66-9	BUTACHLOR	<0.1		0.1	525.2
60-57-1	DIELDRIN	<0.04		0.04	525.2
51218-45-2	METOLACHLOR	<0.1	***	0.1	525.2
21087-64-9	METRIBUZIN	<0.1	100*	0.1	525.2
1918-16-7	PROPACHLOR	<0.1		0.1	525.2

* No MCL, however the DEP Office of Research and Standards has established a guideline (ORSG) limit for this contaminant.

Method	Surrogate Name	% Recovery (70 – 130%)
515.3	2,4 DCAA	92
525.2	1,3 DM-2-NB	100
525.2	Triphenylphos	107
525.2	perylene-D12	98
531.2	4-Bromo-3,5-dim	105

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge. Primary Lab Director Signature:

BihOwe

Date: 12/18/2015

If not submitting these results electronically, mail <u>TWO</u> copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date)	Review	U WQTS
Accepted Disapproved	Comments	Data Entered

Secondary Contaminant Report

I. PWS INFORMATION:	Please refer to your DEP W	ater Quality Sampling Schedul	e (WQSS) to help complete this form
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P٧	/S ID #:	3206000	City	/ Town:	NEV	VBURYPORT			
PW	/S Name:	PWS Class: 0			PWS Class:	COM 🛛 N			
	DEP LOCATION (LOC) ID#	DEP Location Name		Sa	nple in	Iformation	Date Collected	Collected By	
A	10278	Well #2 Finish	······································	☐ (M)ult ⊠ (S)ing		☐ (R)aw ⊠ (F)inished	5/10/2016	T.S.	
в	10001	Wtp Finish	☐ (M)ultiple ☐ (R)aw 5/10/2016 T.S. (F)inished			T.S.			
	Routine or	Original, Resubmitted or	If Resubmitted Report, list below:						
	Special Sample	Confirmation Report	(1) Reason for Resubmission				(2) Collection Date of Original Sample		
Α	🖾 RS 🔲 SS	Original 🗌 Resubmitted 🗋 Confirmation	🗌 Resamp	ie 🗌 Rean	alysis [Report Correction			
В	🛛 RS 🗆 SS	Original 🗌 Resubmitted 🔲 Confirmation	🗌 Resamp	le 🗌 Rean	alysis [Report Correction			
	SAMPLE NOTES	- (Such as, if a Manifold/Multiple sample, list any s	ources that we	re on-line d	uring sa	ample collection).			
Α			<u> </u>						
в									

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab MA Cert. #:	M-RI010	Primary	Lab Name	New Eng	land Testing Lab	·····	Subcontracted? (Y/N) N
Analysis Lab MA Cert. #:] Analysis	Lab Name	:			
Compound	Res	ults	SMCL	MDL	Lab Method	Date	Lab Sample ID#
Compound	A	В	SMOL	(mg/L)		Analyzed	
IRON (mg/L)	0.05	ND	0.3	0.05	SM 3120B	5/11/2016	C0510-11
MANGANESE (mg/L)	0.032	0.006	0.05*	0.005	SM 3120B	5/11/2016	C0510-11
ALKALINITY (mg/L as CaCO3)	63	32	None	2	SM 2320B	5/11/2016	C0510-11
CALCIUM (mg/L)	37.2	18.6	None	0.05	SM 3120B	5/11/2016	C0510-11
MAGNESIUM (mg/L)	8.40	3.96	None	0.05	SM 3120B	5/11/2016	C0510-11
HARDNESS (mg/L as CaCO3)	127	62.8	None	0.33	SM 2340C	5/11/2016	C0510-11
POTASSIUM (mg/L)	4.06	2.07	None	0.5	SM 3120B	5/11/2016	C0510-11
TURBIDITY (NTU)	0.2	0.1	None	0.1	SM 2130B	5/10/2016	C0510-11
ALUMINUM (mg/L)	ND	ND	0.2	0.05	SM 3120B	5/11/2016	C0510-11
CHLORIDE (mg/L)	79	96	250	1	SM 4500CI-B	5/7/2016	C0510-11
COLOR (C.U.)	<5	<5	15	NA	SM 2120B	5/10/2016	C0510-11
COPPER (mg/L)	ND	0.03	1	0.02	SM 3120B	5/11/2016	C0510-11
ODOR (T.O.N)	<1	2	3	NA	SM 2150B	5/10/2016	C0510-11
рН	7.33	6.75	6.5-8.5	NA	SM 4500H+B	5/10/2016	C0510-11
SILVER (mg/L)	ND	ND	0.10	0.0005	SM 3113B	5/13/2016	C0510-11
SULFATE (mg/L)	27	28	250	2	SM 4500SO4-D	5/11/2016	C0510-11
TDS (mg/L)	340	300	500	10	SM 2540C	5/12/2016	C0510-11
ZINC (mg/L)	ND	ND	5	0.02	SM 3120B	5/11/2016	C0510-11
* EPA has established a lifetime	Health Advisor	y (HA) for mang	anese at 0.3	ng/L and an a	acute HA at 1.0 mg/L.		
LAB SAMPLE NOTES							
A							
В		4 1 mm 11 m			na na ang ang ang ang ang ang ang ang an	and where the state of the stat	
l certify under pena person authorized to fill out this					Primary Lab Director S	Signature: 🔗	Codela

contained herein is true, accurate and complete to the best extent of my knowledge.

Date: <u>5/17/2016</u>

If not submitting these results electronically, mail TWO copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date)	Review	WQTS Data
Accepted Disapproved	Comments	Entered

Inorganic Contaminant Report

PWS ID #:	3206000	City / Town:	NEWBURYP	ORT	
PWS Name:	Newburyport Water Department] PWS (Class: COM	
DEP LOCATION (LOC) ID#	DEP Location Name	*Please note all sa	Information imples are considered inished water if there plied	Date Collected	Collected By
10278	#2 Well	☐ (M)ultiple ⊠ (S)ingle	☐ (R)aw ⊠ (F)inished	1/14/2016	С.Н.
Routine or Special Sample	Original, Resubmitted or Confirmation Report			Report, list below	
	☐ Original ☐ Resubmitted ☐ Confirmation	(1) Reason for Re			ion Date of Original Sample
	- (Such as, if a Manifold/Multiple sample, list the source	Resample Reanalysis			
	Couch as, in a marmoral workipic sample, list the sour	ses that were off-line during sal	mple collection).		

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab M	A Cert. #:	M-R1010	Primary I	Lab Name:	New England Testing	Lab	Subcontracted? (Y/N)		Y/N	
Contaminant	Result (mg/L)	MCL (mg/L)	MDL (mg/L)	Lab Method	Date Analyzed	Analysis Lab MA Cert #	Analysis L	.ab Name	Lab Samp	le ID#
ANTIMONY	ND	0.006	0.003	EPA 200.9	2/2/2016	M-RI010	New England	Testing Lab	C0114-1	5B
ARSENIC	ND	0.010	0.001	SM 3113B	1/19/2016	M-CT007	Phoenix La	boratories	C0114-1	5B
BARIUM	0.029	2	0.005	SM 3120B	1/26/2016	M-RI010	New England	Testing Lab	C0114-1	5B
BERYLLIUM	ND	0.004	0.002	SM 3120B	1/26/2016	M-RI010	New England	Testing Lab	C0114-1	5B
CADMIUM	ND	0.005	0.0005	SM 3113B	1/20/2016	M-RI010	New England	Testing Lab	C0114-1	5B
CHROMIUM	ND	0.1	0.005	SM 3120B	1/26/2016	M-RI010	New England	Testing Lab	C0114-1	5B
CYANIDE	ND	0.2	0.01	SM 4500CN-	E 1/19/2016	M-RI010	New England	Testing Lab	C0114-1	5B
FLUORIDE ¹	0.8	4.0	0.3	SM 4500F-0	C 1/15/2016	M-RI010	New England	Testing Lab	C0114-1	5B
MERCURY ²	ND	0.002	0.0002	SM 3112B	1/18/2016	M-RI010	New England	Testing Lab	C0114-1	5B
NICKEL	ND	0.1*	0.005	SM 3120B	1/26/2016	M-RI010	New England	Testing Lab	C0114-1	5B
SELENIUM	ND	0.05	0.01	SM 3113B	1/18/2016	M-RI010	New England	Testing Lab	C0114-1	5B
SODIUM	27.4	20*	0.5	EPA 200.7	1/26/2016	M-R1010	New England	Testing Lab	C0114-1	5B
THALLIUM	ND	0.002	0.001	EPA 200.9	1/18/2016	M-RI010	New England	Testing Lab	C0114-1	5B

¹Fluoride also has a secondary MCL of 2.0 mg/L. Community water systems which exceed this limit must provide public notice pu ²Please note that if method 245.1 is used for mercury, only method revision 3.0 will be accepted by MA DEP. *No current MCL, however DEP Office of Research and Standards has established a guideline (ORSG) limit for this contaminant

Was this Sample composited by the Lab?	COMPOSITE SAMPLE NOTES List the composited sources by DEP Source Code (XXXXXX-XXX), up to five individual sources per sample.
Yes 🗋	
LAB SAMPLE NOTES	

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Primary Lab Director Signature: Bindutes

Date: 2/9/2016

If not submitting these results electronically, mail TWO copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date)		
	Review	U WQTS
Accepted Disapproved	Comments	Data Entered

ΡW	/S ID #:	3206000		C	City / Town: [NEWBURYPO	DRT		
PW	/S Name:	Newburyport	Water Department			PWS C	ass: CO	M 🛛 NTNC	
	DEP LOCATION (LOC) ID#		DEP Location Name		Sample I	nformation	Sample Acidified?	Date Collected	Collected By
A	10001	Finish			☐ (M)ultiple ⊠ (S)ingle	☐ (R)aw ⊠ (F)inished	Yes 🗌	1/14/2016	С.Н.
в	10278	#2 Well			☐ (M)ultiple ☑ (S)ingle	☐ (R)aw ⊠ (F)inished	Yes 🗌	1/14/2016	с.н.
С					(M)ultiple (S)ingle	(R)aw	Yes 🗌		
D					(M)ultiple	(R)aw (F)inished	Yes 🗖		
	Routine or Special Sample		nal, Resubmitted or nfirmation Report	·	/d) Docoon for	If Resubmitte			of Original Sampla
A	Special Sample ⊠ RS □ SS	+	Resubmitted Confirma	ation Files		r Resubmission			of Original Sample
В		<u> </u>	Resubmitted Confirma			lysis Report Cor			<u></u>
c			Resubmitted Confirma			lysis Report Cor			
D		+	Resubmitted Confirma			lysis 🗌 Report Cor		·····	······
			ifold/Multiple sample, list		inter-California and an and a state of the			n dan sering an an dan der seinen men sering som Makada kan	
A						<u> </u>			
в			<u></u>						
С						····			
D		<u> </u>		······	<u> </u>				
n d	ANALYTICAL LA	BOBATODVI							
		[1	Now En	gland Testing La		l	0-1	d? (Y/N) N
Prir	nary Lab MA Cert	. #:	Primary Lab Na		gianu resung La	N		Subcontracte	
Ana	alysis Lab MA Cer								
		t. #:	Analysis Lab Na	me:					
	NITRATE Result (mg/L)	t. #: MCL (mg/L)	Analysis Lab Na 		flethod	Date	Analyzed	Sa	Lab mple ID#
A		MCL	MDL	Lab N	flethod NO3-E		Analyzed 5/2016		
A B	Result (mg/L)	MCL (mg/L)	MDL (mg/L)	Lab N 4500-		1/1		C(mple ID#
	Result (mg/L) 0.27	MCL (mg/L) 10	MDL (mg/L) 0.03	Lab N 4500-	NO3-E	1/1	5/2016	C(0114-15A
в	Result (mg/L) 0.27	MCL (mg/L) 10 10	MDL (mg/L) 0.03	Lab N 4500-	NO3-E	1/1	5/2016	C(0114-15A
B C D Finis	Result (mg/L) 0.27 1.74 shed water results equ	MCL (mg/L) 10 10 10 10 10 ual to or exceeding ceeding the MCL of	MDL (mg/L) 0.03	Lab M 4500- 4500- ggers quarterly n	NO3-E NO3-E nonitoring.	1/1	5/2016	C(0114-15A
B C D Finis	Result (mg/L) 0.27 1.74 shed water results equivalent equivalent examples and the matter results exits	MCL (mg/L) 10 10 10 10 10 10 ual to or exceeding seeding the MCL of ICL exceedances.	MDL (mg/L) 0.03 0.03 ½ of the MCL (5 mg/L) tri	Lab M 4500- 4500- ggers quarterly n	NO3-E NO3-E nonitoring.	1/1	5/2016	C(0114-15A
B C D Finis Finis Noti	Result (mg/L) 0.27 1.74 shed water results equilibrium equilibrium equilibrium equilibrium equilibrium exception equilibrium exception exception equilibrium exception	MCL (mg/L) 10 10 10 10 10 10 ual to or exceeding seeding the MCL of ICL exceedances.	MDL (mg/L) 0.03 0.03 ½ of the MCL (5 mg/L) tri	Lab M 4500- 4500- ggers quarterly n	NO3-E NO3-E nonitoring.	1/1	5/2016	C(0114-15A
B C D Finis	Result (mg/L) 0.27 1.74 shed water results equivalent equivalent examples and the matter results exits	MCL (mg/L) 10 10 10 10 10 10 ual to or exceeding seeding the MCL of ICL exceedances.	MDL (mg/L) 0.03 0.03 ½ of the MCL (5 mg/L) tri	Lab M 4500- 4500- ggers quarterly n	NO3-E NO3-E nonitoring.	1/1	5/2016	C(0114-15A
B C D Finis Finis Noti	Result (mg/L) 0.27 1.74 shed water results equivalent equivalent examples and the matter results exits	MCL (mg/L) 10 10 10 10 10 10 ual to or exceeding seeding the MCL of ICL exceedances.	MDL (mg/L) 0.03 0.03 ½ of the MCL (5 mg/L) tri	Lab M 4500- 4500- ggers quarterly n	NO3-E NO3-E nonitoring.	1/1	5/2016	C(0114-15A
B C D Finis Finis Noti	Result (mg/L) 0.27 1.74 shed water results equivalent equivalent examples and the matter results exits	MCL (mg/L) 10 10 10 10 10 10 ual to or exceeding seeding the MCL of ICL exceedances.	MDL (mg/L) 0.03 0.03 ½ of the MCL (5 mg/L) tri	Lab M 4500- 4500- ggers quarterly n	NO3-E NO3-E nonitoring.	1/1	5/2016	C(0114-15A
B C D Finis Finis Noti	Result (mg/L) 0.27 1.74 shed water results equivalent e	MCL (mg/L) 10 10 10 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	MDL (mg/L) 0.03 0.03 ½ of the MCL (5 mg/L) tri 10 mg/L requires confirm	Lab M 4500- 4500- ggers quarterly n ation sampling w	NO3-E NO3-E nonitoring. rithin 24 hours.		5/2016 5/2016		0114-15A
B C D Finis Finis Noti	Result (mg/L) 0.27 1.74 shed water results equivalent of any M LAB SAMPLE NOT LAB SAMPLE NOT I certify und	MCL (mg/L) 10 10 10 10 10 ual to or exceeding ceeding the MCL of (CL exceedances. TES	MDL (mg/L) 0.03 0.03 ½ of the MCL (5 mg/L) tri 10 mg/L requires confirm w that I am the person mation contained herein	Lab M 4500- 4500- ggers quarterly n ation sampling w	NO3-E NO3-E nonitoring. rithin 24 hours.	1/1	5/2016 5/2016	Ca	0114-15A

If not submitting these results electronically, mail <u>TWO</u> copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date)	Review	U WQTS
Accepted Disapproved	Comments	Data Entered

Ν

Yes:

No:

Volatile Organic Contaminant Report

I. PWS INFOR	RMATION	Please refer t	o your DEP Water	Quality Sam	pling Schedu	ule (WQSS) to I	nelp complete	this form	
PWS ID #:	32	06000		C	ity / Town:	NEWBURY	PORT		
PWS Name:	Ne	wburyport Wa	ter Department		· · · · · · · · · · · · · · · · · · ·	PWS	Class: CC	om 🖾 ntn	
DEP LOCATION (LOC) ID#		DEP Lo	ocation Name		Sample Informa		Sample Acidified?	Date Collected	Collected By
10278	#2 Well				☐ (M)ultiple ⊠ (S)ingle	☐ (R)aw ⊠ (F)inished	Yes 🛛	1/14/2016	C.H.
Routine or		Original, Resubr	mitted or			If Resubmitte	ed Report, list b	elow:	
Special Sample		Confirmation I		(1)	Reason for Re	submission	(2) C	ollection Date o	f Original Sample
🖾 RS 🗌 SS	🛛 Orig	inal 🔲 Resubmitte	d 🔲 Confirmation	🗌 Resample	e 🔲 Reanalysis	Report Correc	ction		
SAMPLE NOTES	– Such as, if	a Manifold/Multiple	e sample, list the sourc	e(s) that were a	on-line during s	ample collection.	<u></u>		<u> </u>
· · · · · · · · · · · · · · · · · · ·		······································				<u></u>			
II. ANALYTIC	AL LABO		ORMATION:						
Primary Lab M	A Cert. #:	M-RI010	Primary Lab Nam	e: New Eng	gland Testing I	.ab		Subcontract	ed? (Y/N) N
Analysis Lab M	A Cert. #:		Analysis Lab Nam	e: [
Lab Meth	od	Date Extracted (551.1 only)	d Date Analyzed	Lab Samp		B SAMPLE NOTE ted or additional of			ther sample was
524.2			1/18/2016	C0114-	15B				
Was this Sa		COMPOSITE S	AMPLE NOTES - Pleas	se list the com	posited sources	by DEP Source (Code (XXXXXX	-XXX), up to five	individual sources.

CAS#	REGULATED VOC CONTAMINANT	Results µg/L	MCL µg/L	MDL µg/L
71-43-2	BENZENE	N.D.	5	0.5
56-23-5	CARBON TETRACHLORIDE	N.D.	5	0.5
75-35-4	1,1-DICHLOROETHYLENE	N.D.	7	0.5
107-06-02	1,2-DICHLOROETHANE	N.D.	5	0.5
106-46-7	PARA-DICHLOROBENZENE	N.D.	5	0.5
79-01-6	TRICHLOROETHYLENE (TCE)	N.D.	5	0.5
71-55-6	1,1,1-TRICHLOROETHANE	N.D.	200	0.5
75-01-4	VINYL CHLORIDE	N.D.	2	0.5
108-90-7	MONOCHLOROBENZENE	N.D.	100	0.5
95-50-1	O-DICHLOROBENZENE	N.D.	600	0.5
156-60-5	TRANS-1,2-DICHLOROETHYLENE	N.D.	100	0.5
156-59-2	CIS-1,2-DICHLOROETHYLENE	N.D.	70	0.5
78-87-5	1,2-DICHLOROPROPANE	N.D.	5	0.5
100-41-4	ETHYLBENZENE	N.D.	700	0.5
100-42-5	STYRENE	N.D.	100	0.5
127-18-4	TETRACHLOROETHYLENE (PCE)	N.D.	5	0.5
108-88-3	TOLUENE	N.D.	1000	0.5
1330-20-7	XYLENES (TOTAL)	N.D.	10000	0.5
75-09-2	DICHLOROMETHANE	N.D.	5	0.5
120-82-1	1,2,4-TRICHLOROBENZENE	N.D.	70	0.5
79-00-5	1,1,2-TRICHLOROETHANE	N.D.	5	0.5



Massachusetts Department of Environmental Protection - Drinking Water Program

Lab Sample ID#:

Volatile Organic Contaminant Report

Page 2 of 2

C0114-15B

VOC

P	WS ID#: 320600		
CAS#	UNREGULATED VOC CONTAMINANTS	Results μg/L	MDL µg/L
67-66-3	CHLOROFORM*	N.D.	0.5
75-27-4	BROMODICHLOROMETHANE	N.D.	0.5
124-48-1	CHLORODIBROMOMETHANE	N.D.	0.5
75-25-2	BROMOFORM	N.D.	0.5
541-73-1	M-DICHLOROBENZENE	N.D.	0.5
74-95-3	DIBROMOMETHANE	N.D.	0.5
563-58-6	1,1-DICHLOROPROPENE	N.D.	0.5
75-34-3	1,1-DICHLOROETHANE*	N.D.	0.5
79-34-5	1,1,2,2-TETRACHLOROETHANE	N.D.	0.5
142-28-9	1,3-DICHLOROPROPANE	N.D.	0.5
74-87-3	CHLOROMETHANE	N.D.	0.5
74-83-9	BROMOMETHANE*	N.D.	0.5
96-18-4	1,2,3-TRICHLOROPROPANE	N.D.	0.5
630-20-6	1,1,1,2-TETRACHLOROETHANE	N.D.	0.5
75-00-3	CHLOROETHANE	N.D.	0.5
594-20-7	2,2-DICHLOROPROPANE	N.D.	0.5
95-49-8	O-CHLOROTOLUENE	N.D.	0.5
106-43-4	P-CHLOROTOLUENE	N.D.	0.5
108-86-1	BROMOBENZENE	N.D.	0.5
542-75-6	1,3-DICHLOROPROPENE*	N.D.	0.5
95-63-6	1,2,4-TRIMETHYLBENZENE	N.D.	0.5
87-61-6	1,2,3-TRICHLOROBENZENE	N.D.	0.5
103-65-1	N-PROPYLBENZENE	N.D.	0.5
104-51-8	N-BUTYLBENZENE	N.D.	0.5
91-20-3	NAPTHALENE*	N.D.	0.5
87-68-3	HEXACHLOROBUTADIENE	N.D.	0.5
108-67-8	1,3,5-TRIMETHYLBENZENE	N.D.	0.5
99-87-6	P-ISOPROPYLTOLUENE	N.D.	0.5
98-82-8	ISOPROPYLBENZENE	N.D.	0.5
98-06-6	TERT-BUTYLBENZENE	N.D.	0.5
135-98-8	SEC-BUTYLBENZENE	N.D.	0.5
75-69-4	FLUOROTRICHLOROMETHANE	N.D.	0.5
75-71-8	DICHLORODIFLUOROMETHANE*	N.D.	0.5
74-97-5	BROMOCHLOROMETHANE	N.D.	0.5
1634-04-4	METHYL TERTIARY BUTYL ETHER (MTBE)**	N.D.	0.5

CAS#	ADDITIONAL UNREGULATED and/or NON-TARGET VOC CONTAMINANTS (Report if analyzed or otherwise detected)	Results µg/L	MDL µg/L
109-99-9	TETRAHYDROFURAN (THF)*	N.D.	5.0
75-65-0	TERT-BUTYL ALCOHLOL (TBA)*	N.D.	0.5
1748-03-8	TERT-AMYL METHYL ETHER (TAME)*	N.D.	0.5
637-92-3	ETHYL TERTIARY BUTYL ETHER (ETBE)	N.D.	0.5
108-20-3	DI-ISOPROPYL ETHER (DIPE)	N.D.	0.5
67-64-1	ACETONE*	N.D.	5.0
76-13-1	FREON 113*		
78-93-3	METHYL ETHYL KETONE (MEK)*	N.D.	5.0
108-10-1	METHYL-ISOBUTYL KETONE (MIBK)*	N.D.	5.0

Check this box if attaching lab report to show additional VOC results/contaminants tested.

*Required * DEP ORSG limit established.

Surrogate Name	% Recovery (70 - 130%)
1,2-Dichlorobenzene-d4	104
4-Bromofluorobenzene	108

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Primary Lab Director Signature:

Ballowas 2/9/2016

Date:

If not submitting these results electronically, mail <u>TWO</u> copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date)	Review	U WQTS
Accepted Disapproved	Comments	Data Entered

Massachusetts Department of Environmental Protection - Drinking Water Program Synthetic Organic Contaminant Report

Page 1 of 2

SOC

*

	3206000	C	City / Town:	NEWBURYP	ORT	
WS Name:	Newburyport Water Department			PWS C	lass: COM 🛛	
DEP LOCATION (LOC) ID#	DEP Location Name		Sample II	nformation	Date Collected	Collected By
10278	Well #2		☐ (M)ultiple ☑ (S)ingle	☐ (R)aw ⊠ (F)inished	2/5/2015	M.S.
Routine or	Original, Resubmitted or			If Resubmitted	Report, list below:	
pecial Sample	Confirmation Report	(1)	Reason for Res	ubmission	(2) Collection	Date of Original Sample
RS SS	Original 🗌 Resubmitted 🗋 Confirmation		e 🗌 Reanalysis [Report Correctio	n	¹
AMPLE NOTES - ((Such as, if a Manifold/Multiple sample, list any sou	rces that were c	on-line during san	nple collection).		
						61. 1
. ANALYTICAL	L LABORATORY INFORMATION:					

· · /	Subcontracteur	ootnig Lub	new England	Finaly Lab Nam	WHITE	Timary Lab MA Cert. #.
Lab Sample ID#	Lab S	Analysis Lab Name	Analysis Lab MA Cert#	Date Analyzed	Date Extracted	Analytical Methods (List All)
B0205-33D	B02	New England Testing Lab	M-RI010	2/13/2015	2/13/2015	504.1
B0205-33D	B02	New England Testing Lab	M-RI010	2/13/2015	2/13/2015	505
B0205-33D	B02	New England Testing Lab	M-RI010	2/14/2015	2/13/2015	515.3
B0205-33D	B02	New England Testing Lab	M-RI010	2/17/2015	2/17/2015	525.2
E502469	E5	Premier Laboratory	M-CT008	2/13/2015		531.2
five individual source	X-XXX), up to five indi	sources by DEP Source Code (XXXXXX-	ase list the composite	AMPLE NOTES - Pleas		Was this Sample composited by the Lab?
			ase list the composite		COMPOSITE SA	

CAS #	SOC Regulated Contaminants	Result µg/L	MCL µg/L	MDL µg/L	Analytical Method
1563-66-2	CARBOFURAN	< 0.90	40	0.9	531.2
23135-22-0	OXAMYL (VYDATE)	<2.0	200	2.0	531.2
94-75-7	2,4-D	<0.1	70	0.1	515.3
93-72-1	2,4,5-TP (SILVEX)	<0.2	50	0.2	515.3
75-99-0	DALAPON	<1.0	200	1.0	515.3
88-85-7	DINOSEB	<0.2	7	0.2	515.3
1918-02-1	PICLORAM	<0.1	500	0.1	515.3
87-86-5	PENTACHLOROPHENOL	< 0.04	1	0.04	515.3
15972-60-8	ALACHLOR	<0.2	2	0.2	525.2
1912-24-9	ATRAZINE	<0.1	3	0.1	525.2
72-20-80	ENDRIN	< 0.05	2	0.05	525.2
76-44-8	HEPTACHLOR	<0.04	0.4	0.04	525.2
1024-57-3	HEPTACHLOR EPOXIDE	<0.04	0.2	0.04	525.2
58-89-9	LINDANE	< 0.04	0.2	0.04	525.2
72-43-5	METHOXYCHLOR	<0.1	40	0.1	525.2
118-74-1	HEXACHLOROBENZENE	<0.1	1	0.1	525.2
77-47-4	HEXACHLOROCYCLOPENTADIENE	<0.1	50	0.1	525.2
122-34-9	SIMAZINE	<0.2	4	0.2	525.2
50-32-8	BENZO(A)PYRENE	< 0.05	0.2	0.05	525.2
103-23-1	DI(2-ETHYLHEXYL)ADIPATE	<0.6	400	0.6	525.2
117-81-7	DI(2-ETHYLHEXYL)PHTHALATE	<1.3	6	1.3	525.2

Page 11 of 26

Well #2



Massachusetts Department of Environmental Protection - Drinking Water Program

Page 2 of 2

SOC

Synthetic Organic Contaminant Report

	SOC Regulated Contaminants	Result µg/L	MCL µg/L	MDL µg/L	Analytical Method	
AS #	SOC Regulated Containing	<0.2	2	0.2	505	
57-74-9 (CHLORDANE		3	1.0	505	
001-35-2	TOXAPHENE	<1.0		0.23	505	
	PCB AROCLOR 1016	<0.23		0.14	505	
	PCB AROCLOR 1221	<0.14		0.09	505	
	PCB AROCLOR 1232	< 0.09		0.08	505	
	PCB AROCLOR 1242	<0.08		0.16	505	
	PCB AROCLOR 1248	<0.16		0.10	505	
1097-69-1	PCB AROCLOR 1254	<0.10		0.13	505	
1096-82-5	PCB AROCLOR 1260	<0.13		0.10		
1336-36-3	PCBS (DECACHLOROBIPHENYL)		0.5	E WATER SOURC	ES ONLY.	
1336-36-3	PCBS (DECACHLOROBIPHENYL) Monitoring requirements for DBCP and EDB	have been waived stat irces must monitor for	hese two contamir	nants.		
	All gloundwater oct	<0.02	0.2	0.02	504.1	
96-12-8 DIBROMOCHLOROPROPANE (DBCP)			0.02	0.01	504.1	
106-93-4	ETHYLENEDIBROMIDE (EDB)		tewide for both gro	undwater and surfac	e water sources, however	
Monitori	ETHYLENEDIBROMIDE (EDB) ng requirements for the following four contaminants monitoring and reporting for Did	quat is required for surf	ace waters that ha	ve applied Diquat.		
	filolitoring and f		20			
85-00-7	DIQUAT		100			
145-73-3	ENDOTHALL		700			
1071-53-6	GLYPHOSATE		3.0x10 ⁻⁵			
1746-01-6	2,3,7,8-TCDD (DIOXIN)					
		Result	ORSG	MDL	Analytical Method	
CAS#	SOC Unregulated Contaminants	µg/L	µg/L	µg/L	531.2	
		< 0.50	3*	0.50	531.2	
116-06-3	ALDICARB	<0.80	2*	0.80	531.2	
1646-88-4	ALDICARB SULFONE	< 0.50	4*	0.50		
1646-87-3	ALDICARB SULFOXIDE	< 0.50		0.50	531.2	
63-25-2	CARBARYL	<0.50		0.50	531.2	
16655-82-6	3-HYDROXYCARBOFURAN	<0.50		0.50	531.2	
10000 02 0	METHOMYL	<0.2		0.2	515.3	
16752-77-5	METHOM			0.1	525.2	
				0.1		
16752-77-5	DICAMBA	<0.1		0.1	525.2	
16752-77-5 1918-00-9	DICAMBA ALDRIN	<0.1 <0.1			525.2 525.2	
16752-77-5 1918-00-9 309-00-2	DICAMBA ALDRIN BUTACHLOR	<0.1 <0.1 <0.04		0.1		
16752-77-5 1918-00-9 309-00-2 23184-66-9	DICAMBA ALDRIN BUTACHLOR DIELDRIN	<0.1 <0.1 <0.04 <0.1		0.1	525.2	
16752-77-5 1918-00-9 309-00-2 23184-66-9 60-57-1	DICAMBA ALDRIN BUTACHLOR DIELDRIN METOLACHLOR	<0.1 <0.1 <0.04		0.1 0.04 0.1	525.2 525.2	

* No MCL, however the DEP Office of Research and Standards has established a guideline

and the set	Surrogate Name	% Recovery (70 - 130%)	_
Method		101	
515.3	2,4 DCAA	91	
525.2	1,3 DM-2-NB	1816	
525.2	Triphenylphos	95	_
		102	
525.2	perylene-D12	99	
531.2	4B-3,5Dim	55	
		imany Lab Director Signature:	Buch

Primary Lab Director Signature:

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

2/18/2015 Date:

If not submitting these results electronically, mail TWO copies of this report to your DEP Regional Office no later than 10 days after the end of the red this report or no later than 10 days after the end of the reporting period, whichever is sooner.

month ii	n which you received this report		L WQIS
DED DEVIEN STATI	US (Initial & Date)	Review	Data Entered
DEP REVIEW STAT		Comments	
	Disapproved		



Massachusetts Department of Environmental Protection - Drinking Water Program SOC Massachusetts Department of Lan Synthetic Organic Contaminant Report

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PWS ID #:	3206000 City / Town:			e (WQSS) to help complete this form NEWBURYPORT			
PWS Name: Newburyport Water Department				PWS C	lass: COM 🛛		
DEP	DEP Location Name	Sample Information		Date Collected	Collected By		
(LOC) ID# 10001			(M)ultiple (S)ingle	☐ (R)aw ⊠ (F)inished	2/5/2015	M.S.	
			If Resubmitted Report, list below:				
Routine or Special Sample	Original, Resubmitted or Confirmation Report	(1) Reason for Res	ubmission	(2) Collectio	n Date of Original Sample	
	Original 🗌 Resubmitted 🗌 Confirmation	Resamp	le 🗌 Reanalysis	Report Correction	in		

II. ANALYTICAL LABORATORY INFORMATION:

imary Lab MA Cert. #:	M-RI010	Primary Lab Nam	e: New England T	esting Lab	Subcontracted? (Y/N)
Analytical Methods	Date	Date Analyzed	Analysis Lab MA Cert#	Analysis Lab Name	Lab Sample ID#
(List All)	2/13/2015	2/13/2015	M-RI010	New England Testing Lab	B0205-33E
504.1	2/13/2015	2/13/2015	M-RI010	New England Testing Lab	B0205-33E
505	2/13/2015	2/13/2015	M-RI010	New England Testing Lab	B0205-33E
515.3		2/17/2015	M-RI010	New England Testing Lab	B0205-33E
525.2	2/17/2015	2/13/2015	M-CT008	Premier Laboratory	E502469
531.2		2/13/2015			
Was this Sample composited by the Lab?	COMPOSITE S	SAMPLE NOTES - Plea	ise list the composited	sources by DEP Source Code (XXXXX	XX-XXX), up to five individual source

CAS#	SOC Regulated Contaminants	Result µg/L	MCL µg/L	MDL µg/L	Analytical Method	
1563-66-2	CARBOFURAN	<0.90	40	0.9	531.2	
		<2.0	200	2.0	531.2	
3135-22-0	OXAMYL (VYDATE)	<0.1	70	0.1	515.3	
94-75-7	2,4-D	<0.2	50	0.2	515.3	
93-72-1	2,4,5-TP (SILVEX)	<1.0	200	1.0	515.3	
75-99-0	DALAPON	<0.2	7	0.2	515.3	
88-85-7	DINOSEB		500	0.1	515.3	
1918-02-1	PICLORAM	<0.1	1	0.04	515.3	
87-86-5	PENTACHLOROPHENOL	< 0.04	2	0.2	525.2	
5972-60-8	ALACHLOR	<0.2	3	0.1	525.2	
1912-24-9	ATRAZINE	<0.1		0.05	525.2	
72-20-80	ENDRIN	<0.05	2		525.2	
76-44-8	HEPTACHLOR	< 0.04	0.4	0.04	525.2	
1024-57-3	HEPTACHLOR EPOXIDE	< 0.04	0.2	0.04		
58-89-9	LINDANE	< 0.04	0.2	0.04	525.2	
72-43-5	METHOXYCHLOR	<0.1	40	0.1	525.2	
118-74-1	HEXACHLOROBENZENE	<0.1	1	0.1	525.2	
77-47-4	HEXACHLOROCYCLOPENTADIENE	<0.1	50	0.1	525.2	
122-34-9	SIMAZINE	<0.2	4	0.2	525.2	
50-32-8		< 0.05	0.2	0.05	525.2	
103-23-1	BENZO(A)PYRENE	<0.6	400	0.6	525.2	
103-23-1	DI(2-ETHYLHEXYL)ADIPATE DI(2-ETHYLHEXYL)PHTHALATE	<1.3	6	1.3	525.2	

WTP Finished

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SOC

CAS #	SOC Regulated Contaminants	Result µg/L	MCL µg/L	MDL µg/L	Analytical Method
57-74-9	CHLORDANE	<0.2	2	0.2	505
8001-35-2	TOXAPHENE	<1.0	3	1.0	505
12674-11-2	PCB AROCLOR 1016	<0.23		0.23	505
11104-28-2	PCB AROCLOR 1221	< 0.14		0.14	505
11141-16-5	PCB AROCLOR 1232	< 0.09		0.09	505
53469-21-9	PCB AROCLOR 1242	<0.08		0.08	505
12672-29-6	PCB AROCLOR 1248	<0.16		0.16	505
11097-69-1	PCB AROCLOR 1254	<0.10		0.10	505
11096-82-5	PCB AROCLOR 1260	<0.13		0.13	505
1336-36-3	PCBS (DECACHLOROBIPHENYL)		0.5		
	Monitoring requirements for DBCP and ED All groundwater so	B have been waived sta ources must monitor for	atewide for SURFAC these two contamin	E WATER SOURC	ES ONLY.
96-12-8	DIBROMOCHLOROPROPANE (DBCP)	< 0.02	0.2	0.02	504.1
106-93-4	ETHYLENEDIBROMIDE (EDB)	< 0.01	0.02	0.01	504.1
Monitor	ing requirements for the following four contaminant monitoring and reporting for D	s have been waived sta iquat is required for sur	atewide for both grou face waters that hav	undwater and surfactive applied Diquat.	e water sources, however
85-00-7	DIQUAT		20		
145-73-3	ENDOTHALL		100		
1071-53-6	GLYPHOSATE		700		
1746-01-6	2.3.7.8-TCDD (DIOXIN)		3.0x10 ⁻⁵		

CAS#	SOC Unregulated Contaminants	Result µg/L	ORSG µg/L	MDL µg/L	Analytical Method
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16655-82-6	3-HYDROXYCARBOFURAN	< 0.50		0.50	531.2
16752-77-5	METHOMYL	<0.50		0.50	531.2
1918-00-9	DICAMBA	<0.2		0.2	515.3
309-00-2	ALDRIN	<0.1		0.1	525.2
23184-66-9	BUTACHLOR	<0.1		0.1	525.2
60-57-1	DIELDRIN	< 0.04		0.04	525.2
51218-45-2	METOLACHLOR	<0.1		0.1	525.2
21087-64-9	METRIBUZIN	<0.1	100*	0.1	525.2
1918-16-7	PROPACHLOR	<0.1		0.1	525.2

* No MCL, however the DEP Office of Research and Standards has established a guideline (ORSG) limit for this contaminant.

Method	Surrogate Name	% Recovery (70 - 130%)
515.3	2,4 DCAA	108
525.2	1,3 DM-2-NB	94
525.2	Triphenylphos	95
525.2	perylene-D12	103
531.2	4B-3,5Dim	99

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge. Primary Lab Director Signature:

Date:

Rich Ohto

2/18/2015

If not submitting these results electronically, mail <u>TWO</u> copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date)		Review		WQTS
Accepted	Disapproved	Comments		Data Entered