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DRAFT Alternatives Analysis Report

NYS Brownfield Cleanup Program
BCP Site No. C558036

Old Champlain Mill
16–50 Poultney Street
Village of Whitehall
Washington County, New York

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WASHINGTON COUNTY, NEW YORK

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1.0 INTRODUCTION

1.1 Purpose and Organization

The purpose of this Alternatives Analysis (AA) Report is to present Site specific remediation alternatives based on the findings and conclusions of the Remedial Investigation (RI) Report for the Old Champlain Mill Brownfield Cleanup Program (BCP) project prepared by C.T. Male Associates Engineering, Surveying, Architecture & Landscape Architecture, D.P.C. (C.T. Male), dated January 2011, and supplemental Site investigations as more specifically presented herein. The overall goal of the AA is to develop and evaluate feasible remedial action(s) to either achieve compliance with established regulatory clean up guidance levels and/or to protect human health and the environment from contaminated media present at the subject Site. The AA is the technical support document for development of the Remedial Work Plan (RWP). Upon regulatory approval by the New York State Department of Environmental Conservation (DEC), the RWP will serve as the decision document for this BCP project.

This AA is organized and prepared in accordance with the DEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010. The AA consists of three (3) main sections. Section 1 is an introduction which presents the purpose of the project and background information including a Site description, Site history, historical contaminants of concern, nature and extent of Site contamination, and the contaminant fate and transport. Human and ecological exposure pathways are also discussed in this section. Section 2 identifies remedial action objectives, general response actions and remedial alternatives available for addressing the on-Site contamination and their objectives. Section 3 presents an individual and comparative analysis of each of the alternatives discussed within the report.

The proposed remedy for the Site will pursue Track 4 Soil Cleanup Objectives for commercial use of the Site, which is consistent with both the Site's historical use for manufacturing purposes and the Site's location in a commercially zoned area in the Village of Whitehall, New York.

1.2 Project Background

Poultney Street Partners, LLC (Poultney) submitted an application to the DEC for participation in the NYS BCP in relationship to the property known as the Old Champlain Mill located at 16-50 Poultney Street in the Village of Whitehall, Washington County, New York (hereinabove and hereinafter, "the Site"). A Site Location Map is presented as Figure 1. DEC subsequently notified Poultney of its eligibility to participate in the BCP, and Poultney executed a Brownfield Cleanup Agreement (BCA) which required the submission, review, approval and implementation of investigative work plans under the BCP. The Draft Remedial Investigation Work Plan was submitted to DEC and the New York State Department of Health (DOH) for review and comment in November 2007. Regulatory comments to the Work Plan were satisfactorily addressed and the Work Plan was approved in November 2008. Poultney's application and the executed BCA specified Poultney's proposed "contemplated use" of the property as commercial. The contemplated use as outlined in the BCA, along with the results of the RI, serves as the basis for developing the remedial program at the Site.

The BCP RI involved the collection and analysis of surface soil samples; the advancement of test pits and test borings for the collection and analysis of subsurface soil samples; the installation of monitoring wells for the collection and analysis of groundwater samples; the collection and analysis of groundwater samples from existing monitoring wells installed during previous investigations of the Site; collection and analysis of sediment and surface water samples from on-Site wetlands; a private well survey; a Fish and Wildlife Impact Analysis (FWIA); and a Data Usability Summary Report (DUSR).

Results of the Site investigation were incorporated in a RI Report. The RI Report describes the investigations conducted at the site for evaluating the nature and extent of contamination in surface soil, subsurface soil, surface water, sediment and groundwater. The target goals of the RI were to identify contaminants of concern, evaluate the horizontal and vertical extent of such contamination, and to produce data of sufficient quantity and quality to support the development and analyses of remedial alternatives. From these data, decisions regarding the need for additional remedial actions are made and remedial options evaluated based in part on the intended future use of the Site.

A previous Draft AA was initially submitted for regulatory review in January 2011 and was reviewed by the DEC in early 2012. In a comment letter from the DEC dated February 2, 2012, the applicant was requested to include at least one alternative in the AA that focused on source removal.

In December 2012, a groundwater sampling event was completed to update the groundwater conditions primarily within the area of the groundwater contamination plume within the northern portions of the Site, and to obtain data to evaluate the natural attenuation processes occurring within the plume.

In March 2013, a meeting was held with DEC to further discuss the requirements of the AA, the results and findings of the December 2012 groundwater sampling event, and the merits of completing additional Site investigations to identify a possible source area of contamination. A supplemental work plan dated May 31, 2013 for conducting additional Site investigations was approved by the DEC and completed in October 2013. Based on the findings of the supplemental investigation, a follow-up groundwater sampling event and limited subsurface investigation was proposed in March 2014, completed in May 2014, and reported in August 2014.

The findings of these supplemental investigations are further discussed in detail in Section 1.2.5.

1.2.1 Site Description

The subject Site is located at 16-50 Poultney Street (NYS Route 4) in the Village of Whitehall, Washington County, New York. The Site is located on the south side of Poultney Street and is bound to the east by Wood Creek and to the west by the Champlain Canal. The Site was identified on the Village of Whitehall tax maps as being within the parcel with section 60.6, block 1 and lot 5. A Site Plan showing the Site property boundaries and RI sampling locations is included as Figure 2.

The subject Site incorporates approximately 11.49 acres of fairly level land, though the adjoining Poultney Street roadway to the north of the Site sits at an elevation higher than that of the subject Site. With the exception of a brick smoke stack and small municipal sewage pump station, no buildings are currently located on the Site. Formerly, the Site was occupied by an approximate 100,000 square foot manufacturing facility and an approximate 5,000 square foot power house. The manufacturing

building was a one story brick structure which was reportedly constructed in 1916 and demolished in 2003. The building was constructed on a slab foundation. Much of the foundation of the former manufacturing building remains on the Site. The power house was a one story brick building located to the south of the factory building. The power house was also reportedly constructed in 1916 and formerly housed the boiler for the manufacturing building. Much of the concrete slab foundation for the power house also remains on the Site. A fenced in municipal sewage pump station occupies the southeastern portion of the Site. According to a Title Report prepared by Chicago Title Insurance Company, there is an easement to the Town of Whitehall for the underground sewage pump station and installation of a sanitary sewer force main.

A gated paved driveway enters the Site from Poultney Street on the eastern portion of the Site. The driveway leads to a paved parking area located north of the location of the former manufacturing building. A gravel driveway traverses the eastern portion of the Site providing access to the sewage pump station.

1.2.2 Site History

The Site was reportedly first developed as a silk mill. The Site was used for this purpose until 1959 at which point the building was used to manufacture newspaper vending machines. The Site was used for this purpose until 2001. The buildings formerly located on the Site are indicated to have been demolished in 2003. These buildings reportedly had not been used since 2001.

1.2.3 Potential Historical Contaminants of Concern

Petroleum fuels, solvents, dyes, paints and products containing metals may have been used in association with past manufacturing uses of the Site.

1.2.4 Summary of the Remedial Investigation

The goal of the RI was to identify and assess potential sources of contamination, and to provide the data necessary to develop a comprehensive strategy to remediate the identified contamination, as necessary to protect human health and the environment. The report, entitled "Remedial Investigation Report, Old Champlain Mill, Village of Whitehall, Washington County, New York"; dated January 2011 details the investigative activities which were completed and is available for review within the

document repositories. The following tasks were completed as part of the RI for the Site:

- Site Survey;
- Private Well Survey;
- Surface Soil Sampling and Analysis;
- Surface Water and Sediment Sampling and Analysis;
- Exploratory Test Pitting;
- Test Boring and Monitoring Well Installations;
- Subsurface Soil Sampling and Analysis;
- Groundwater Sampling and Analysis of Newly Installed and Existing Monitoring Wells;
- Fish and Wildlife Impact Analysis; and
- Data Usability Summary Report (DUSR).

1.2.5 Supplemental Investigations

Three (3) supplemental investigations of the Site were completed following the submission of the RI Report.

December 2012

The first investigation involved the completion of a groundwater sampling event in December 2012, which was reported to DEC in February 2013 (see Exhibit 1). The investigation results were compared to previous groundwater analytical results. A groundwater contour map and a Site map depicting the groundwater contaminant plume as it existed on the dates sampling was performed in 2007, 2010 and 2012 were attached to the report. In summary, the concentrations of chlorinated volatile organic compounds (CVOCs) found in December 2012 had decreased since the monitoring wells were sampled in 2010 and 2007, and the areal extent and severity of the plume had also diminished. In addition, it was apparent that natural attenuation, through anaerobic biodegradation, had already and was continuing to actively occur within the Site.

October 2013

The second supplemental investigation was completed in October 2013 and involved a Ground Penetrating Radar (GPR) and a pipe locating geophysical survey to identify the potential presence of dry wells, other subsurface disposal features, and buried piping extending out from the northern foundation wall of the former building, primarily within the vicinity of monitoring wells MW-2A and B-13. In addition to the above, sediment samples were collected from the existing catch basin located southwest of monitoring well MW-19A and analyzed for volatile organic compounds.

In summary, the October 2013 supplemental investigation did not identify any buried liquid containing conduits or discharge features other than the previously identified storm water basin in the northern portion of the Site and the inlet and outlet pipes connected to the basin. The geophysical survey was able to identify that an inlet pipe to the catch basin originated south of the basin in the direction of the former mill, and the outlet pipe was directed to the west toward the Champlain Canal. Due to poor signal recovery, the actual discharge location of the storm water basin discharge pipe was not identified, but appears to be into the Champlain Canal. Similarly, the lack or loss of signal approximately 16 feet south of the storm water basin suggests a portion of the inlet pipe is broken or has collapsed. The analytical results for the sediment samples collected from the catch basin identified only low concentrations of carbon disulfide and tetrachloroethene in the sediment sample from the 10 to 12 inch depth, this essentially being the top surface of the concrete bottom of the catch basin. The concentrations of these compounds do not suggest that the sediment in the basin itself is a contaminant source location. A copy of the January 8, 2014 report of this October 2013 investigation is attached in Exhibit 2.

May 2014

The third supplemental phase of investigation involved the completion of a groundwater sampling event to evaluate current groundwater quality within the Site relative to volatile organic compounds. A targeted subsurface investigation was also completed in the area of monitoring well BMW-19A where the October 2013 Ground Penetrating Radar (GPR) survey identified a possible collapsed pipe between the northern foundation wall of the former mill building and catch basin in the vicinity of monitoring well BMW-19A. The overall intent of the groundwater sampling event was to determine if on-going groundwater contaminant degradation was evident, and

whether a source area of chlorinated solvents was present in the soils beneath the area of pipe collapse. A copy of the August 8, 2014 report is presented in Exhibit 3.

The investigation showed that groundwater movement within the Site is similar to the historical flow patterns for the previous groundwater sampling events. Overall, the 2014 total CVOC concentrations in groundwater are similar to those previously detected. In regard to the monitoring wells with the highest historical CVOC detections in 2007 (MW-2A, MW-10A), there has been a significant decrease in total CVOC concentrations at MW-2A and little change at MW-10A. In regard to the monitoring wells installed in 2010 with the highest historical detections of CVOC concentrations (BMW-13A, BMW-14A, BMW-15A), there has been little change at BMW-13A and BMW-14A, and a moderate increase at BMW-15A. At BMW-19A, a significant decrease occurred between 2010 and 2012, followed by a moderate increase between 2012 and 2014; however, not back to the concentration levels exhibited in 2010.

Historically, Trichloroethene (TCE) concentrations have been comparatively low as compared to its degradation byproducts; cis-1,2-Dichloroethene (DCE), trans-1,2-DCE and Vinyl Chloride.

The analytical results collected from the pipe collapse identify TCE and cis-1,2-DCE as the only compounds detected in the soil sample at concentrations of0.0015 ppm and 0.0016 ppm, respectively. Neither of these detections is greater than their Soil Cleanup Objective values in NYCPP Part 375 for both Commercial and Unrestricted uses.

Summary of Supplemental Investigation Conclusions

Based on the results of the supplemental investigations there are a number of lines of evidence that natural attenuation through anaerobic biodegradation of contaminants (specifically chlorinated volatile organic compounds) is occurring in the groundwater at the Site. The evidence for anaerobic biodegradation is as follows:

- Sources of CVOC contamination have not been identified as a function of the RI and supplemental Site investigations.
- Chlorinated ethenes have experienced a decline in concentrations over time.
- Parent-daughter ratios from up-gradient well MW-2A (i.e., TCE:sum of daughter products, TCE:cis-1,2-DCE, and cis-1,2-DCE:vinyl chloride) are slightly higher

than in wells MW-3A, MW-10A, and BMW-19A, which are located inside the plume and appear to have more anoxic groundwater conditions.

- Dissolved oxygen levels are below 1 mg/l inside the plume and below 1.5 mg/l on the down-gradient edge of the plume, indicating anoxic conditions. Up-gradient and outside the plume, dissolved oxygen levels are higher than 1.5 mg/l, indicating oxic conditions.
- Concentrations of dissolved iron (mostly ferrous, or reduced) and ratios of dissolved iron to total iron and dissolved iron to monovalent metals (which are unaffected by aquifer redox conditions) are higher inside the contaminant plume than outside. No discernible, statistically significant trends were observed in any of the other analytes (e.g., sulfates, sulfide, or nitrates). Therefore, anaerobic biodegradation is occurring through iron reduction.

Additionally, it appears that the breakdown of these products is occurring under strongly reducing conditions. Under weakly reducing conditions, the breakdown of vinyl chloride to ethene is slower and more inefficient than the breakdown of any of its parent products. This often results in increasing concentrations of vinyl chloride over time, as the parent products (e.g., TCE) are broken down much faster than vinyl chloride. However, in the five impacted wells reviewed in December 2012, vinyl chloride concentrations decreased an average of 76%. This suggests that groundwater conditions are reducing enough to promote relatively fast degradation of vinyl chloride.

1.3 Nature and Extent of Contamination

1.3.1 General

Sampling and analysis of several media types was conducted during the RI and supplemental investigations to evaluate the nature and extent of contamination at the subject Site. These media types included surface soils, subsurface soils, surface water, sediment and groundwater. Additionally, analytical results of surface soils and groundwater from previous investigations of the Site were incorporated into the RI to aid in developing a broader sense of the nature and extent of Site contaminants.

Table 1.3.1-1 below lists the frequencies (i.e., 3 of 15 sampling locations) for the contaminants of concern (COCs) in each media type. Table 1.3.1-1presents compounds and analytes that were detected at concentrations which exceeded the project Standards, Criteria and Guidance Values (SCGs) which are the 6 NYCRR Part 375

Restricted (Commercial) Use Soil Cleanup Objectives (SCOs) for protection of human health for soils; NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) for surface water and groundwater; and the NYSDEC Technical Guidance for Screening Contaminated Sediments for sediments. SCOs for the protection of groundwater are not included in Table 1.3.1-1 because existing groundwater contaminants likely resulted from an on-Site source that will be addressed by the remedial program and an environmental easement will be placed on the Site which will provide for a groundwater use restriction. It should be noted that the SCGs for metals in sediments are divided into two categories; the Lowest Effect Level (LEL) and the Severe Effect Level (SEL). According to the NYSDEC Technical Guidance for Screening Contaminated Sediments, the LEL indicates a level of sediment contamination that can be tolerated by the majority of benthic organisms, but still causes toxicity to a few species; and the SEL indicates the concentration at which pronounced disturbance of the sediment dwelling community can be expected.

Compounds and analytes detected in the samples at concentrations which exceeded the laboratory detection limit, but did not exceed the SCGs for any samples in a media type are not included in Table 1.3.1-1. Table 1.3.1-1 summarizes the samples collected during the RI and supplemental investigations with the exception of VOC groundwater analytical results. The VOC groundwater analytical results presented in the Table were obtained from the most recent groundwater sampling event conducted during the May 2014 supplemental investigation. The VOC analytical results from groundwater samples collected during the 2006 C.T. Male Phase II ESA, 2007 C.T. Male Supplemental Phase II ESA, the RI, and the 2012 supplemental investigations were not incorporated into Table 1.3.1-1 because groundwater movement is dynamic, and incorporating analytical results of groundwater samples collected during previous investigations would not be representative of the Site's most recent groundwater conditions. The analytical results for groundwater samples collected during the investigations prior to the RI are presented in Tables 1.3.1-2 and 1.3.1-3 located in Appendix A. A summary of all of the VOC groundwater results for the existing monitoring wells from to 2007 to 2014 is presented in Table 1.3.1.4 in Appendix A.

TABLE 1.3.1-1: COMPOUNDS AND ANALYTES EXCEEDING SCGs PER MEDIA TYPE						
Media	**Class**	**Contaminant of Concern**	**Detected Concentration Range**	**Frequency of Exceeding Standard**	**Applicable SCG [1]**	
Surface Soils (mg/kg)	**VOCs**	None Detected Above SCGs				
	SVOCs[2]	Benzo(a)anthracene	20	1 of 18	5.6	
		Benzo(a)pyrene	1.2 to 16	3 of 18	1	
		Benzo(b)fluoranthene	19	1 of 18	5.6	
		Dibenz(a,h)anthracene	2.5	1 of 18	0.56	
		Indeno(1,2,3-cd)pyrene	9.4	1 of 18	5.6	
	PESTs	None Detected Above the Laboratory Detection Limit				
	PCBs	None Detected Above the Laboratory Detection Limit				
	Metals	None Detected Above SCGs				
Subsurface Soils (mg/kg)	**VOCs**	None Detected Above SCGs				
	SVOCs	Benzo(a)anthracene	8	1 of 13	5.6	
		Benzo(b)fluoranthene	7.7	1 of 13	5.6	
		Benzo(a)pyrene	3.3 to 6.9	2 of 13	1	
	PESTs	None Detected Above SCGs				
	PCBs	None Detected Above the Laboratory Detection Limit				
	Metals	Arsenic	17.3 to 29.7	2 of 13	16	
Ground Water (ug/l)	**VOCs[3]**	1,1-Dichloroethene	0.29 to 7.4	2 of 20	5	
		cis-1,2-Dichloroethene	0.81 to 7,500	13 of 20	5	
		trans-1,2-Dichloroethene	1.3 to 47	9 of 20	5	
		Trichloroethene	0.81 to 3,300	9 of 20	5	
		Vinyl Chloride	0.81 to 1,800	12 of 20	2	
	SVOCs	Benzo(a)pyrene	0.17	1 of 15	Non Detect	
		Indeno(1,2,3-cd)pyrene	0.73	1 of 15	0.002	
	PESTs	None Detected Above the Laboratory Detection Limit				
	PCBs	None Detected Above the Laboratory Detection Limit				
	Metals	Iron	784 to 22,200	12 of 15	300	
		Lead	38.1	1 of 15	25	
		Manganese	569 to 4,850	11 of 15	300	
		Sodium	31,000 to 64,200	5 of 15	20,000	
Wetland Surface Water (ug/l)	**VOCs**	Acetone	51	1 of 4	50	
	SVOCs	None Detected Above the Laboratory Detection Limit				
	PESTs	None Detected Above the Laboratory Detection Limit				
	PCBs	None Detected Above the Laboratory Detection Limit				
	Metals	Iron	529 to 5,410	4 of 4	300	
		Manganese	383 to 491	2 of 4	300	
		Sodium	81,400	1 of 4	20,000	
Wetland Sediments (mg/kg)	**VOCs**	None Detected Above SCGs				
	SVOCs	None Detected Above SCGs				
	PESTs	None Detected Above the Laboratory Detection Limit				
	PCBs	None Detected Above the Laboratory Detection Limit				
	Metals	Arsenic	6.04 to 6.05	2 of 4	**LEL[4]**	**SEL[4]**

TABLE 1.3.1-1: COMPOUNDS AND ANALYTES EXCEEDING SCGs PER MEDIA TYPE						
Media	**Class**	**Contaminant of Concern**	**Detected Concentration Range**	**Frequency of Exceeding Standard**	**Applicable SCG (1)**	
					6	33
		Cadmium	0.73	1 of 4	0.6	9
		Copper	20.9	1 of 4	16	110
		Iron	21,100 to 23,500	2 of 4	20,000	40,000
		Lead	40.4	1 of 4	31	110
		Nickel	16.7 to 22.5	3 of 4	16	50
		Zinc	146	1 of 4	120	270

Table Notes:

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs, Subpart 375-6 Restricted (Commercial) Use Soil Cleanup Objectives for soils. NYSDEC Technical Guidance for Screening Contaminated Sediments, Human Health Bioaccumulation for sediments. NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Effluent Limitations, June 1998 for groundwater and surface water.

(2) The total number of surface soil samples includes 13 samples collected during the RI and five (5) samples collected during the 2007 C.T. Male Supplemental Phase II ESA. The SVOCs detected above SCGs were from the surface soil samples collected during the 2007 C.T. Male Supplemental Phase II ESA.

(3) Represents VOCs detected in groundwater samples collected during the May 2014 Supplemental Investigation..

(4) LEL denotes Lowest Effect Level. SEL denotes Severe Effect Level. If the metals concentration is less than the LEL, the effects of the metal in the sediment are considered to be acceptable. If the concentration is greater than the LEL but less than the SEL concentration, the sediment is considered to be contaminated with moderate impacts to benthic life. If the concentration is greater than the SEL, the sediment is contaminated and significant harm to benthic aquatic life is anticipated.

GV Guidance Value
NA Not Applicable
MDL The Laboratory Minimum Detection Limit (MDL)
*** Background levels for lead vary widely. Average background levels in metropolitan areas near highways are much higher and typically range from 200 to 500 mg/kg or ppm. The EPA's Interim Lead Hazard Guidance (7/14/94) establishes a residential screening level of 400 mg/kg or ppm.

As presented in Table 1.3.1-1, the contaminants of concern at the Site are semi-volatile organic compounds (SVOCs) in surface soils; SVOCs and Arsenic in near-surface soils; chlorinated volatile organic compounds (VOCs), SVOCs and metals in groundwater; one (1) VOC and metals in wetland surface water and metals in wetland sediments. The distribution of contaminants exceeding SCGs in the various media-types sampled during both the RI and previous investigations of the Site, and the distribution of total VOCs in groundwater, are presented in the following attached figures:

- Figure 3: Contaminants in Soil Exceeding SCGs;
- Figure 4: Contaminants in Groundwater Exceeding SCGs;
- Figure 5: Contaminants in Surface Water/Sediments Exceeding SCGs;
- Figure 6: Total CVOCs in Groundwater Isoconcentration Map; and

- Figure 6A: Total CVOCs in Groundwater Isoconcentration Contour Comparison for 2007 and 2010, 2012 and 2014 Groundwater Sampling.

1.3.2 Contaminant Source Areas

The following identifies potential source areas for the COCs encountered in the various Site media during the RI and previous and supplemental Site investigations.

Surface Soils

COCs in surface soils included SVOCs at sampling locations SS-1, SS-3 and SS-5 (Figure 3). The sampling locations are located around the former Power House and the SVOCs could be attributed to the intermingling with Site soils, of ash and cinders generated as a by-product from incomplete combustion of coal when the Power House was operational.

Near-Surface Soils

The COCs in near-surface soils include SVOCs and the metal Arsenic. The SVOCs were identified at sampling locations BMW-12A-S-1 (0-2′ bgs) and BMW-17A-S-1 (0-2′ bgs) and the arsenic was identified at sampling locations BMW-16A-S-2 (2′-4′ bgs) and BMW-17A (0-2′ bgs) (Figure 3). The sampling locations are situated along the perimeter of the former Manufacturing Building. The SVOCs and arsenic detections at BMW-12A and BMW-17A are confined to the 0 to 2 feet bgs depth interval while the arsenic detection at BMW-16A is confined to the 2 to 4 foot depth interval. It is believed that the detection of Arsenic at the 2 to 4 foot depth interval at BMW-16A is related to fill materials.

The source for the SVOCs found in soils from sampling locations at the building perimeter could be attributed to historic fill placed in this area during construction of the Manufacturing Building. The source for the arsenic found in soils could be attributed to the historic application of an arsenate based herbicide at the building perimeter or possibly related to the use of coal by the mill at some earlier point in time when in operation.

Groundwater

The COCs in groundwater include chlorinated VOCs, SVOCs and metals from several of the monitoring wells sampled during the RI (Figure 4). An isoconcentration map showing the distribution of total chlorinated VOCs detected in groundwater during the RI is presented in Figure 6. For comparative purposes, the distribution of total chlorinated VOCs from groundwater sampling conducted during the 2007 C.T. Male Supplemental Phase II ESA is compared to the total chlorinated VOCs identified in the RI and the 2012 and 2014 supplemental groundwater sampling events. These are presented in the isoconcentration contour map in Figure 6A.

Based on review of the isoconcentration maps in Figures 6 and 6A, and the findings of the supplemental investigations completed in 2013 and 2014, a source area for the chlorinated VOCs in groundwater has not been identified and therefore the source of the chlorinated VOCs is likely related to poor housekeeping practices at the time such chemicals were used within the site.

Two (2) SVOCs were detected above SCGs in groundwater sampled at monitoring well BMW-16A during the RI. BMW-16A is located at the perimeter of the former Manufacturing Building (Figure 4). The SVOCs could be from fill material used during construction of the building which would tend to be suspended in the groundwater and not a dissolved contaminant. Groundwater was measured at approximately one (1) foot bgs at this sampling location during the RI. SVOCs in fill material at this location may have leached into groundwater.

The metals iron, manganese and sodium were detected above SCGs in groundwater samples collected from several monitoring well locations during the RI (Figure 4). The metal lead was detected above its SCG at one monitoring well location only. Iron and manganese are viewed as naturally occurring in the environment. The source for sodium in groundwater is attributed to the historic application of road salt to the Site's access roads and parking lot, and adjoining NYS Route 4. The source for the single lead detection at MW-2A could be attributed to the historic release(s) of leaded gasoline from automobiles and/or delivery trucks associated with the Manufacturing Building or lead based paint from the former building

Wetland Surface Water

The COCs in wetland surface water include the VOC acetone and the metals iron, manganese and sodium (Figure 5). Acetone (51 ppb) only slightly exceeded its SCG of 50 ppb and is not viewed as a concern. The metals are viewed as naturally occurring in the environment, other than sodium, which was likely generated through the application of road salt.

Wetland Sediments

The metals detected in wetland sediments (Figure 5) only slightly exceeded the LEL SCG. None of the detected metals exceeded the SEL SCG. Accordingly, these metal detections are not viewed as a concern.

1.3.3 Contaminant Fate and Transport

The Site-related contaminant concentrations above the Part 375 Restricted (Commercial) Use Soil Cleanup Objectives include SVOCs in surface soils, SVOCs and arsenic in near-surface soils, chlorinated VOCs, SVOCs and metals in groundwater, one VOC and metals in surface water and metals in sediment.

The SVOCs in surface and near-surface soils appeared to have impacted groundwater (likely as suspended material in the groundwater) since the same SVOCs detected above SCGs in surface and subsurface soils were also detected in groundwater above SCGs. During the RI, groundwater was measured at the ground surface at several of the newly installed and existing monitoring well locations indicating that groundwater is coming into contact with SVOCs in surface and near-surface soils. Arsenic in near-surface soils will tend to adhere to surrounding soil particles and not readily leach into groundwater, although groundwater was measured at the ground surface at several locations during the RI. This is exemplified by Arsenic not being detected above the laboratory detection limit within the sampled groundwater with the exception of two (2) sampling locations where arsenic was detected below its corresponding SCG.

Because the Site's groundwater contains chlorinated VOCs, SVOCs and metals having densities greater than water (except for Vinyl Chloride (chlorinated VOC), Indeno (1,2,3-cd)pyrene (SVOC), and Sodium (metal)), it is expected that the chlorinated VOCs and SVOCs would migrate within the aquifer, in the direction of groundwater flow. The detected metals (except for sodium) are generally insoluble in water and tend to

adsorb and absorb to soil particles, thus making it difficult for the metals to migrate with groundwater. Metals that are soluble in water (such as sodium) would readily migrate with groundwater. Based on monitoring well data, groundwater movement is in a radial direction, generally to the west, north and east from a groundwater ridge present within the central portions of the Site. The metals above SCGs found in groundwater (Iron and Manganese but not Lead), are viewed as naturally occurring in the environment.

The one (1) VOC (Acetone) and metals in surface water will tend to migrate in the direction of surface water flow, which is generally towards Wood Creek to the east of Wetlands 1, 2 and 7 identified in Figure 2. The VOC and metals in stagnant surface water in the remaining isolated Site wetlands will remain in the water or settle out in underlying sediments. Metals (Iron and Manganese) above SCGs in surface water are considered as naturally occurring in the environment.

The metals in the wetland sediments may be suspended in the surface water should this material be subject to natural disturbances (i.e., precipitation events causing increased flow velocities) and/or man-made disturbances (disturbance of the wetland bottom).

The possible transport mechanisms for the contaminants present at the Site are migration within the surface water, groundwater and the atmosphere. Depending on their solubility, contaminants could dissolve in surface water and groundwater and be transported by surface water and groundwater flow. The SVOC contaminants present in surface soils could be transported to the atmosphere as dust should this media be disturbed or through displacement of this media by excessive winds. The chlorinated VOCs in groundwater could potentially volatilize in the vadose zone and migrate vertically upwards to the ground surface where they would tend to dissipate into the atmosphere. The chlorinated VOCs in groundwater could also migrate into Site buildings; thus impacting the building's indoor air quality and establishing an exposure pathway between the volatilized chlorinated VOCs and the building occupants.

1.4 Human Exposure Pathways

Exposure pathways are means by which contaminants move through the environment from a source to a point of contact with humans. A complete exposure pathway must have five (5) parts: 1) a source of contamination; 2) a mechanism for transport of a substance from the source to the air, surface water, groundwater and/or soil; 3) a point

where people come in contact with contaminated air, surface water, groundwater or soil (point of exposure); 4) a route of entry (exposure) into the body; and 5) a receptor population. Routes of entry include ingesting contaminated materials, breathing contaminated air, or absorbing contaminants through the skin. If any part of an exposure pathway is absent, the pathway is said to be incomplete and no exposure or risk is possible. In some cases, although a pathway is complete, the likelihood that significant exposure will occur is small.

The potential Site related contaminants were identified as those contaminants detected in various media at the Site above SCGs. The potential Site related contaminants that have been identified in various media at the Site are presented in Table 1.4-1.

TABLE 1.4-1: PARAMETERS DETECTED ABOVE SCGs

Compound	Surface and Subsurface Soil	Surface Water	Sediment	Groundwater
Volatile Organic Compounds				
Acetone	No	Yes	No	No
1,1-Dichloroethene	No	No	No	Yes
cis-1,2-Dichloroethene	No	No	No	Yes
trans-1,2-Dichloroethene	No	No	No	Yes
Trichloroethene	No	No	No	Yes
Vinyl Chloride	No	No	No	Yes
Semi- Volatile Organic Compounds:				
Benzo(a)anthracene	Yes	No	No	No
Benzo(b)fluoranthene	Yes	No	No	No
Benzo(a)pyrene	Yes	No	No	Yes
Dibenz(a,h)anthracene	Yes	No	No	No
Indeno(1,2,3-cd)pyrene	Yes	No	No	Yes
Metals:				
Arsenic	Yes	No	Yes	No
Cadmium	No	No	Yes	No
Copper	No	No	Yes	No
Iron	No	Yes	Yes	Yes
Lead	No	No	Yes	Yes
Manganese	No	Yes	No	Yes
Nickel	No	No	Yes	No
Sodium	No	Yes	No	Yes
Zinc	No	No	Yes	No

Potential exposure pathways for Site contaminants are a function of the contaminant, the affected media, contaminant location and the potentially impacted population. The potential exposure routes and pathways for the Site include inhalation, dermal contact and/or ingestion of potentially contaminated soil on-Site; dermal contact and/or ingestion of potentially contaminated groundwater on-Site; dermal contact and/or ingestion of potentially contaminated surface water and sediments on-Site; and inhalation of VOC vapors that may emanate from contaminated groundwater into occupied buildings.

The potential impacted populations at the Site and vicinity include residents in the neighboring community, Site visitors and trespassers on the Site, workers who may be engaged in work that would disturb the soils, surface water, sediments and groundwater, and occupants of any future Site buildings.

Five (5) SVOCs were detected above SCGs in surface soils. The concentrations of these contaminants of concern may warrant remedial action as they are present within soil that is readily accessible to dermal contact and ingestion. Furthermore, disturbance of these soils could create airborne contaminants that may be inhaled. The potential for dermal contact (including ingestion and inhalation) with exposure to the impacted soil and the associated impact is, therefore, anticipated to be high.

Three (3) SVOCs and the metal arsenic, were detected slightly above SCGs in the Site's near-surface (0 to 2' bgs) soils. The potential for exposure to contaminants in existing undisturbed near-surface soils is considered to be moderate as the contaminants are somewhat accessible to the public. In the event that the Site's soils are disturbed during future Site development activities, the potential for inhalation, dermal contact and/or ingestion of contaminated soils would be viewed as moderate to high.

Groundwater impacts consist of five (5) chlorinated VOCs, two (2) SVOCs and four (4) metals exceeding SCGs. The chlorinated VOCs and metals were dispersed across the Site while the SVOCs were confined to an isolated sampling location. The Site and vicinity are served by public water provided by the Village of Whitehall; however, shallow groundwater measured at the ground surface during the RI will likely be encountered by workers during any future Site development. As such, the potential for ingestion and inhalation of chlorinated VOC vapors from the contaminated groundwater and dermal contact of contaminated groundwater by potential future Site workers and occupants is considered to be moderate. There exists a moderate to high

potential for inhalation of chlorinated VOC vapors from the contaminated groundwater by occupants of future Site buildings. Groundwater has been measured at shallow depths across the Site.

Wetland surface water impacts consist of one (1) VOC and three (3) metals confined to Wetlands 2, 5, 6 and 7. Wetlands 5 and 6 are viewed as isolated wetlands containing stagnant surface water. Wetland 7 is connected to the Site's east adjoining Wood Creek via an underground culvert pipe. Metal contaminants include Iron, Manganese and Sodium. Iron and Manganese are viewed as naturally occurring in the environment. Sodium is attributed to application of road salt on the Site's northern adjoining NYS Route 4. The VOC Acetone (51 ppb) was detected slightly above its SCG of 50 ppb. Based on the above information, potential adverse effects from surface water contaminants to Site occupants and off-Site populations are considered to be low.

Sediments in Site Wetlands 2, 5, 6 and 7 are impacted by several metals slightly exceeding the LEL SCG. There exists the potential for the sediments to become suspended in the water column in Wetlands 2 and 7 and be carried off-site into Wood Creek where human exposure may occur. The potential for the ingestion/dermal contact by human populations of the sediment contaminants is considered to be low.

1.5 Ecological Exposure Pathways

The value of the fish and wildlife resources located within the study area is considered low to moderate. Industrial buildings and residential areas have eliminated much of the natural habitat in the vicinity of the project Site and have replaced it primarily with mowed lawns with trees, paved roads and urban structure exterior areas. Overall, many of the cover types in the study area have already been heavily influenced by human activities.

The value of the fish and wildlife resources to humans is very limited within the project Site. As a result, the value of these resources to humans is determined to be low.

1.6 Exposure Pathways Summary and Identification of Areas of Concern

Of the human exposure pathways examined in Section 1.4, the SVOCs in surface soil, and SVOCs and Arsenic in near-surface soils are the only COCs that pose a direct exposure pathway to receptor populations in the form of dermal contact (including

ingestion and inhalation) from exposure to the impacted soil. The potential pathways to on-Site receptor populations for the remaining COCs were considered to be low; with the exception of the moderate receptor population impact from dermal exposure by future Site workers and the potentially moderate to high exposure to building occupants from inhalation of soil gas vapors that may migrate into future Site buildings.

In view of the above, the SVOCs in surface soils, SVOCs and Arsenic in near-surface soils, chlorinated VOCs in groundwater, and vapor intrusion, will be the focus of the remedial action objectives for the Site.

2.0 DEVELOPMENT OF ALTERNATIVES

2.1 Introduction

The RI and supplemental investigations involved intrusive and non-intrusive investigations to determine the nature and extent of COCs within surface soils, subsurface soils, surface water, sediment and groundwater. The results of the RI along with the results of previous and supplemental Site investigations were used to develop and evaluate the remedial alternatives described within this report.

Feasible remedial action(s) are identified to achieve compliance with established regulatory cleanup guidance levels and/or to protect human health and the environment. The remedial alternatives for the Site are developed based on published literature and current knowledge of the technologies commonly employed in similar situations and circumstances. The remedial action objectives, general response actions, and development of remedial alternatives are presented in detail in the following sections of this report.

2.2 Remedial Action Objectives

Table 2.2-1 summarizes the COCs within each medium and the remedial action objectives (RAOs) identified for each medium. The COCs include compounds and analytes which exceeded their respective SCGs. Potentially affected populations described in Table 2.2-1 include persons who may be engaged in the future commercial activities at the Site based upon the contemplated use, residents in the neighboring community, Site visitors and trespassers, and workers who may be engaged in excavation of Site materials during any future Site development.

Table 2.2-1: Contaminants of Concern for Site Media and Remedial Action Objectives		
Media Type	**COCs**	**Remedial Action Objective**
Surface and Near-Surface Soil	SVOCs and Arsenic	Prevent affected populations from direct contact and ingestion of the contaminated soils and inhalation of airborne dust that may emanate from the soils should they be disturbed.
Surface Water	Acetone and Metals	No further action. Acetone slightly exceeded its SCG. The metals are viewed as naturally occurring in the environment, other than sodium, which is attributed to road salt.
Sediments	Metals	No further action. The metals only slightly exceeded the LEL SCG. None of the detected metals exceeded the SEL SCG.
Groundwater	Chlorinated VOCs, SVOCs and Metals	Prevent affected populations from direct contact with the contaminated groundwater and impede the contaminated groundwater from migrating off Site. Prevent inhalation of related soil gas vapors by occupants of future Site buildings.

The remedial action objectives are to control, reduce and possibly eliminate COCs present in the various areas and media within the Site, with the ultimate goal of protecting human health and the environment.

In developing remediation goals for the subject Site, the following design considerations were evaluated relative to economical and feasible solutions for addressing the Site contaminants:

- The Site is being considered for commercial use, which may involve construction of retail buildings. This use is consistent with the Site's historic uses for manufacturing and is consistent with local zoning. The remedial action should reduce and possibly eliminate potential exposure to COCs by Site visitors and workers should the Site undergo future development activities.

The Site-specific project Standards, Criteria and Guidance Values (SCGs) are as follows.

- 6NYCRR Part 375 Restricted (Commercial) Use Soil Cleanup Objectives (SCOs) for protection of human health for soils. SCOs for the protection of groundwater are not applicable because existing groundwater contaminants likely resulted from an on-Site source that will be addressed by the remedial program, an

environmental easement will be placed on the Site which will provide for a groundwater use restriction, and the remedy will include elimination of vapor intrusion concerns.

- NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) for surface water and groundwater.

- NYSDEC Technical Guidance for Screening Contaminated Sediments for sediments. It should be noted that the SCGs for metals in sediments are divided into two categories; the Lowest Effect Level (LEL) and the Severe Effect Level (SEL). According to the NYSDEC Technical Guidance for Screening Contaminated Sediments, the LEL indicates a level of sediment contamination that can be tolerated by the majority of benthic organisms, but still causes toxicity to a few species; and the SEL indicates the concentration at which pronounced disturbance of the sediment dwelling community can be expected.

2.3 General Response Actions

As described above, the project Site is impacted by varying concentrations of SVOCs and Arsenic in surface and near-surface soils, chlorinated VOCs, SVOCs and metals in groundwater, and soil vapor which may intrude into future Site buildings.

The general response actions are developed for addressing COCs present within the Site through Site specific remedial alternatives. The intent of the general response action is to address contamination and mitigate the potential for exposure to the contamination and, to a lesser extent, potential off-Site impacts from the subject Site. The following provides the approximate areas to which treatment, containment, or exposure reduction technologies may be applied to the Site.

- COCs in soils exceeding SCOs for the intended cleanup track for the Site;

- COCs in groundwater exceeding SCGs; and

- Soil gas vapors that may impact the air quality of future Site buildings.

The approximate physical volumes and areas for Site media requiring remediation are identified in Section 2.4 for each of the remedial alternatives under consideration.

2.4 Development of Alternatives

The following sections present a selection of remedial alternatives that may be implemented to address the general response actions discussed in the previous section of this report. The alternatives under consideration include:

1. Excavation and disposal of impacted soils and replacement with clean fill, groundwater remediation and short-term institutional control. This alternative would be instituted for attainment of Track 1 soil cleanup objectives for unrestricted use of the Site.

2. Emplacement of cover material with institutional controls, in-situ groundwater remediation, Site Management Plan, long-term monitoring and soil vapor mitigation. This alternative would be instituted for attainment of Track 4 soil cleanup objectives for restricted use of the Site.

3. Emplacement of cover material with institutional controls, monitoring natural attenuation, Site Management Plan, and soil vapor mitigation. Development of a third alternative was required by the DEC as a result of the Site being classified as a "Significant Threat" in relation to elevated levels of chlorinated VOCs in the Site's groundwater, and absence of chlorinated VOCs in subsurface soils. A copy of the DEC BCP Significant Threat Determination Report is presented as Exhibit 4.

2.4.1 Alternative No. 1: Excavation and Disposal of Impacted Soils and Replacement with Clean Fill, Groundwater Remediation, and Short-Term Institutional Control

This alternative would involve the excavation and disposal of contaminated soil exceeding Track 1 SCOs within the Site boundaries. Upon completion of the remedy, the excavated areas of the Site would be backfilled with clean fill.

Groundwater remediation would involve two components. The first component would involve the extraction and treatment of contaminated groundwater encountered during the contaminated soil excavations discussed above. Based on the proposed soil excavation depths, the lead and SVOC impacts in groundwater would effectively be remediated via extraction and treatment, as the impacted groundwater exhibiting the SVOC and lead COCs would fall within the horizontal and vertical footprint of the proposed contaminated soil excavation. Partial remediation of the chlorinated VOCs in

groundwater would also occur via extraction and treatment during contaminated soil excavation activities. The second component of groundwater remediation would involve the in-situ remediation of remaining groundwater impacted by chlorinated VOCs through enhanced bio-remediation via the injection of hydrogen release compound (HRC) into the Site's subsurface.

A short-term (less than five (5) years) institutional control would be placed on the Site during groundwater remediation restricting groundwater usage until groundwater sampling demonstrates that contaminants are below applicable SCGs and/or asymptotic contaminant levels have been attained and groundwater remediation was successful. Bi-annual groundwater sampling would be required during enhanced bio-remediation to gage the effectiveness of the remedial technique and to determine the need for additional injection(s) of HRC.

Because contaminants in soil and groundwater will have been remediated for unrestricted use of the Site, soil vapor mitigation systems for any future Site buildings will be unnecessary.

The following provides the approximate areas to which treatment, containment, or exposure reduction technologies would be applied for attainment of Track 1 SCOs and groundwater SCGs for unrestricted use of the Site.

- Approximately 148,430 tons of impacted soils will require removal and replacement. The Table in Figure 7 identifies all of the compounds and analytes in surface, near-surface and subsurface soils that have exceeded their respective unrestricted use SCOs. Based on the analytical results provided on the Table, Figure 7 depicts the horizontal and vertical extent of soils requiring remediation. The extent of the proposed soil remediation areas was arrived at by extending the impacted soil sampling points to non-impacted soil sampling points. In the absence of non-impacted soil sampling points, the soil remediation areas were extended to the Site's property boundaries, to the earthen dike on eastern portions of the Site, and to the edge of the federally regulated Wetlands. As depicted in Figure 7, a portion of Wetland 7 will require the excavation of surface soils. Wetland 7 is a federally regulated wetland.

- Approximately 3,794,818 gallons of impacted groundwater is anticipated to be encountered during the contaminated soil excavation activities. This

groundwater will need to be evacuated, temporarily stored, treated and disposed of. The volume of groundwater was calculated by obtaining the average vertical thickness (in feet) of the aquifer for each of the soil excavation depths from water level measurements collected from the Site's monitoring wells during the RI and multiplying this average by the total square footage of the soil excavation area. The total cubic footage of groundwater was converted to gallons and then multiplied by a 30% porosity factor for the Site soils.

- Remaining contaminated groundwater containing chlorinated VOCs not remediated during soil excavation dewatering will be remediated employing the in-situ injection of HRC. A product specification sheet for HRC is included as Exhibit 5. As described in the specification sheet, HRC is effective at degrading chlorinated compounds consistent with chlorinated VOCs in the Site's groundwater. Groundwater monitoring will be conducted to gage the effectiveness of the HRC treatment. Based on the horizontal distribution of remaining contaminated groundwater after soil excavation dewatering, it is estimated that HRC will need to be injected at 176 points on north-central and southeastern portions of the Site. Of the 176 injection points, 25 injection points will be located on the Site's northwestern property boundary to reduce the potential for impacted groundwater to migrate off-Site.

2.4.2 Alternative No. 2: Emplacement of Cover Material with Institutional Controls, In-Situ Groundwater Remediation and Monitoring, Site Management Plan, and Soil Vapor Mitigation

This alternative would involve the placement of a 12-inch soil cover or comparable cover (i.e. building concrete floor slabs, asphalt pavement, concrete walkways) for the areas of the Site containing impacted surface and near-surface soils above commercial use SCOs. In the event that groundwater is encountered during placement of the cover system, the groundwater would be extracted, temporarily stored, treated and disposed of. The institutional controls would be an environmental easement granted to the NYSDEC, which would then have the authority to enforce the terms of the easement and to notify future owners and/or developers of the restricted use of the property.

Groundwater remediation would involve the in-situ remediation of groundwater impacted by chlorinated VOCs through enhanced bio-remediation via the injection of HRC into the Site's subsurface. An institutional control would be placed on the Site

restricting groundwater usage because isolated lead and SVOCs above SCGs in groundwater would not be remediated utilizing HRC. Monitoring of the Site's groundwater would be conducted on a bi-annual basis for a period of five (5) years to gauge the effectiveness of the groundwater remediation effort.

Implementation of the Site Management Plan would provide specific requirements for future Site development, use and occupation.

Because contaminants in soil and groundwater will not be remediated to unrestricted use, soil vapor mitigation systems for any future Site buildings will be necessary.

2.4.3 Alternative No. 3: Emplacement of Cover Material with Institutional Controls, Site Management Plan, Soil Vapor Mitigation, and Monitoring Natural Attenuation

Alternative No. 3 is the same as Alternative No. 2 with respect to Track 4 soil cleanup objectives for commercial use of the Site via placement of the cover material with institutional controls, Site Management Plan, and soil vapor mitigation. The difference between the two (2) alternatives is that Alternative No. 3 will incorporate Monitoring Natural Attenuation (MNA) rather than in-situ groundwater remediation, as presented in Alternative No. 2.

The MNA program will generally involve conducting groundwater sampling at approximately 12 monitoring wells on an annual basis for 5 years to determine the rate of chlorinated VOC degradation and confirmation that the chlorinated VOC plume is stabilizing and /or degrading.

3.0 DETAILED ANALYSIS OF ALTERNATIVES

3.1 Introduction

Each remedial alternative was evaluated based on specific criteria set forth in 6 NYCRR Part 375-1.10 and Section 4.2 of DER-10. The evaluation criteria will be used by the NYSDEC in the selection process for the most appropriate remedy considering the Site conditions, level of implementation, and cost-effectiveness. From this AA Report and the RI Report, Poultney will prepare a Remedial Work Plan (RWP) for public review. The Department will address any issues raised by the public in a Responsiveness Summary. The final RWP will be the decision document for the Site.

The first two (2) evaluation criteria (No. 1 and 2 below) are threshold criteria and must be satisfied in order for an alternative to be considered for evaluation. The next six (6) evaluation criteria (No. 3 to 8 below) are primary balancing criteria which are used to compare the positive and negative aspects of each of the remedial alternatives. After the decision document is subject to public comment, the final criterion (No. 9 below) is considered.

1. Overall protection of public health and the environment;
2. Compliance with Standards, Criteria, and Guidance (SCGs);
3. Long-term effectiveness and permanence;
4. Reduction of toxicity, mobility, or volume of contamination through treatment;
5. Short-term impact and effectiveness;
6. Implementability;
7. Cost effectiveness;
8. Land use; and
9. Community acceptance.

Institutional controls are means of attaching restrictions on the property to limit Site activities and future use of the property, and to assure due diligence in notification of prospective purchasers and the public. These restrictions could also include installation of fencing or other means to limit access to the Site or a particular area of the Site. The Site's current and future land use plays a significant role in selecting the most effective institutional controls. Examples of institutional controls typically include land use and

drinking water use restrictions, deed restrictions, notification in public registries of excavation and construction work activity, and appropriate posting of informational signs at the Site. Depending on the severity of contamination, institutional controls could be required along with other feasible remedial alternatives. For the purpose of analyzing the alternatives below, specific examples of institutional controls (as discussed above) are not referenced, but would ultimately be selected based on the results of the remedial action selected/performed.

Engineering controls are any method employed to actively or passively contain, stabilize, or monitor contamination, restrict the movement of contamination to ensure the long-term effectiveness of a remedial program, or eliminate potential exposure pathways to contamination. Engineering controls include, but are not limited to, pavement, caps, covers, subsurface barriers, vapor barriers, slurry walls, building ventilation systems, fences, access controls, and provision of alternative water supplies via connection to an existing water supply, adding treatment technologies to such water supplies, and installing filtration devices on private water supplies.

The following sections examine each of the alternatives separately as they correlate to the eight (8) evaluation criteria.

3.2 Overall Protection of Human Health and the Environment

3.2.1 Alternative No.1: Excavation and Disposal of Impacted Soils and Replacement with Clean Fill, Groundwater Remediation, and Short-Term Institutional Control

Protection of human health and the environment would effectively be realized through the implementation of Alternative 1 as the contaminated soil in excess of unrestricted use SCOs would be remediated through excavation and off-Site disposal and replaced with clean fill. Contaminated groundwater in excess of SCGs would also be remediated over a short period of time (less than five (5) years) employing extraction/treatment technologies from dewatering during the contaminated soil excavation activities and by application of in-situ enhanced bio-remediation technologies for remaining groundwater contaminants not remediated during the contaminated soil excavations. A short-term (less than five (5) years) institutional control would be implemented restricting groundwater usage during the in-situ bio-remediation of contaminated groundwater. Bi-annual groundwater monitoring (for five (5) years) would be conducted to gage the effectiveness of the groundwater remediation effort.

Remediation of soils and groundwater to unrestricted use standards would eliminate any possible source for soil vapor intrusion into future Site buildings and would effectively eliminate this exposure pathway.

Alternative No. 1 would satisfy the RAOs for the Site as potential exposures to contaminated soils and groundwater would be eliminated and possible soil vapor intrusion into any future Site buildings would also be eliminated.

3.2.2 Alternative No. 2: Emplacement of Cover Material with Institutional Controls, In-Situ Groundwater Remediation and Monitoring, Site Management Plan, and Soil Vapor Mitigation

The cover material, institutional controls, and Site Management Plan would serve as a mechanism to protect human health from the contaminants. Groundwater remediation employing in-situ technologies would mitigate potential exposures to this media. Long-term monitoring would be conducted to gauge the effectiveness of the groundwater remediation effort. The implementation of institutional controls (i.e. soil vapor mitigation system for any future Site buildings) would serve to protect the public health by eliminating any exposure to soil gas vapors.

Alternative No. 2 would satisfy the RAOs for the Site as human exposures to contaminated soils would be eliminated by application of the cover material and implementation of the institutional controls and Site Management Plan. Human exposure to contaminated groundwater would be reduced through application of in-situ remedial technologies and implementation of an institutional control restricting groundwater usage. Human exposure to soil vapors would be eliminated by mandating that future Site buildings be equipped with vapor mitigation systems.

3.2.3 Alternative No. 3: Emplacement of Cover Material with Institutional Controls, Site Management Plan, Soil Vapor Mitigation, and Monitoring Natural Attenuation

The cover material, institutional controls, and Site Management Plan would serve as a mechanism to protect human health from the contaminants. MNA would be completed on an annual for a period of five (5) years. The implementation of institutional controls (i.e., soil vapor mitigation system for any future Site buildings) would serve to protect the public health by eliminating exposure to potential soil gas vapors.

Alternative No. 3 would satisfy the RAOs for the Site as human exposures to contaminated soils would be eliminated by application of the cover material and implementation of the institutional controls and Site Management Plan. Human exposure to contaminated groundwater would be reduced through natural attenuation processes and implementation of an institutional control restricting groundwater usage. Human exposure to soil vapors would be eliminated by mandating that future Site buildings be equipped with vapor mitigation systems.

3.3 Compliance with Standards, Criteria, and Guidance (SCGs)

3.3.1 Alternative No.1: Excavation and Disposal of Impacted Soils and Replacement with Clean Fill, Groundwater Remediation and Short-Term Institutional Controls

Compliance with SCGs would be realized through the implementation of Alternative 1 as contaminated soil and groundwater in excess of SCGs would be remediated.

3.3.2 Alternative No. 2: Emplacement of Cover Material with Institutional Controls, In-Situ Groundwater Remediation and Monitoring, Site Management Plan, and Soil Vapor Mitigation

Compliance with SCGs would not be attained in the existing Site soils and groundwater through the implementation of Alternative No. 2, because contaminated soils would be left in place and select contaminants above SCGs would remain in groundwater. However, the public health would be protected from contaminants in soil and residual groundwater contaminants through placement of the cover material (engineering control), institutional controls, institution of the Site Management Plan and installation of a vapor mitigation system for any future Site buildings.

Although Alternative No. 2 does not attain the SCGs for unrestricted use of the Site as described in Alternative No. 1, Alternative No. 2 offers acceptable (per applicable regulations) protection to public health through application of the above referenced institutional and engineering controls.

3.3.3 Alternative No. 3: Emplacement of Cover Material with Institutional Controls, Site Management Plan, Soil Vapor Mitigation, and Monitoring Natural Attenuation

Compliance with SCGs would not be attained in the existing Site soils and may not be attained in groundwater in the near future through the implementation of Alternative

No. 3, because contaminated soils would be left in place and select contaminants above SCGs may remain in groundwater. However, the public health would be protected from contaminants in soil and residual groundwater contaminants through placement of the cover material (engineering control), institutional controls in the form of groundwater use restrictions, institution of the Site Management Plan and installation of a vapor mitigation system for any future Site buildings.

Although Alternative No. 3 does not attain the SCGs for unrestricted use of the Site as described in Alternative No. 1, Alternative No. 3 offers acceptable (per applicable regulations) protection to public health through application of the above referenced institutional and engineering controls.

3.4 Long Term Effectiveness and Permanence

3.4.1 Alternative No.1: Excavation and Disposal of Impacted Soils and Replacement with Clean Fill, Groundwater Remediation and Short-Term Institutional Controls

Implementing Alternative No. 1 is a long term and permanently effective means of remediating soil and groundwater contamination at the Site. There should be no residual risks remaining upon completion of this alternative. This alternative is considered to be a reliable means of reducing and possibly eliminating the potential impacts to human health and the environment. A short-term (less than five (5) years) institutional control restricting groundwater usage during groundwater remediation will serve to protect the public health. The institutional control will be in the form of an environmental easement to the NYSDEC. The easement will restrict groundwater usage for the time period that the institutional control is in effect. The environmental easement will be applicable to the current Site owner and is transferable to any future Site owners and/or lessees. NYSDEC will have the sole authority to alter and/or extinguish the easement.

3.4.2 Alternative No. 2: Emplacement of Cover Material with Institutional Controls, In-Situ Groundwater Remediation and Monitoring, Site Management Plan, and Soil Vapor Mitigation

The long term effectiveness and permanence of Alternative No. 2 would be achieved by placing a cover material (engineering control) that would protect public health from Site contaminants, remediating groundwater via in-situ technologies and by providing

institutional controls and a Site Management Plan controlling Site usage and development and maintenance practices. There should be minimal long-term risks to human health if 1) the cover material remains intact and is inspected annually, 2) long-term groundwater monitoring is conducted to gauge the effectiveness of the remedial effort, 3) the SMP is followed by Site owners (present and future), Site developers and any personnel involved in any future Site maintenance and development activities, and 3) institutional controls are implemented and followed by future Site owners and developers.

The contaminants remaining in soils would be segregated from the potentially impacted population once the placement of the cover material is completed. The cover material would be an effective means of protection from Site contaminants if it is consistently inspected to ensure that it has not been breached by naturally occurring and/or man made incidents. Additionally, if future Site development should occur, then buildings, parking lots, walkways and landscaped areas would also serve as additional protective surface covers. Contaminants in groundwater would be remediated over time through application of in-situ technologies, thus effectively eliminating potential exposure to this media.

The potential for soil vapor intrusion into future Site buildings would effectively be eliminated by mandating that a soil vapor mitigation system be installed as a component of all future building construction.

3.4.3 Alternative No. 3: Emplacement of Cover Material with Institutional Controls, Site Management Plan, Soil Vapor Mitigation, and Monitoring Natural Attenuation

The long term effectiveness and permanence of Alternative No. 3 would be achieved by placing a cover material (engineering control) that would protect public health from Site contaminants, natural attenuation of groundwater and by providing institutional controls and a Site Management Plan controlling Site usage and development and maintenance practices. There should be minimal long-term risks to human health if: 1) the cover material remains intact and is inspected annually; 2) long-term groundwater monitoring is conducted to gauge the effectiveness of natural attenuation; 3) the SMP is followed by present and future Site owners, Site developers and any personnel involved in any future Site maintenance and development activities, and 4) institutional controls are implemented and followed by future Site owners and developers.

The contaminants remaining in soils would be segregated from the potentially impacted population once the placement of the cover material is completed. The cover material would be an effective means of protection from Site contaminants if it is consistently inspected to ensure that it has not been breached by naturally occurring and/or man made incidents. Additionally, if future Site development should occur, buildings, parking lots, walkways and landscaped areas would also serve as additional protective surface covers. The bulk of contaminants in groundwater will be remediated through natural attenuation, thus effectively reducing potential exposure to this media.

The potential for soil vapor intrusion into future Site buildings would effectively be eliminated by mandating that a soil vapor mitigation system be installed as a component of all future building construction.

3.5 Reduction of Toxicity, Mobility, or Volume with Treatment

3.5.1 Alternative No. 1: Excavation and Disposal of Impacted Soils and Replacement with Clean Fill, Groundwater Remediation and Short-Term Institutional Control

Reduction of the toxicity, mobility or volume of the Site contaminants would effectively be realized through the implementation of Alternative 1 as the contaminated soil in excess of SCGs would be remediated through the excavation and disposal of impacted soil and replacement with clean fill, and groundwater would be remediated by soil remediation excavation dewatering and treatment and in-situ enhanced bio-remediation technologies. The short-term (less than five (5) years) institutional control would restrict groundwater usage during application of the in-situ technologies.

3.5.2 Alternative No. 2: Emplacement of Cover Material with Institutional Controls, In-Situ Groundwater Remediation and Monitoring, Site Management Plan, and Soil Vapor Mitigation

This alternative would not reduce the toxicity or volume of contaminants in soil, but it would prevent mobility of the contaminants to the surface where exposures could occur. Mobility of the soil contaminants into groundwater is expected to be limited as the contaminants in soils above SCGs consist of arsenic and SVOCs, which would tend to adhere to soil and not readily migrate into groundwater.

The toxicity and volume of contaminants in groundwater would be addressed through implementation of in-situ remedial technologies. Implementation of a subsurface bio-remediation barrier along the Site's western property boundary would serve to hinder groundwater contaminants from migrating off-Site.

3.5.3 Alternative No. 3: Emplacement of Cover Material with Institutional Controls, Site Management Plan, Soil Vapor Mitigation, and Monitoring Natural Attenuation

This alternative would not reduce the toxicity or volume of contaminants in soil, but it would prevent mobility of the contaminants to the surface where exposures could occur. Mobility of the soil contaminants into groundwater is expected to be limited as the contaminants in soils above SCGs tend to adhere to soil and not readily migrate into groundwater.

The toxicity and volume of contaminants in groundwater will be reduced through natural attenuation processes.

3.6 Short Term Impacts and Effectiveness

3.6.1 Alternative No.1: Excavation and Disposal of Impacted Soils and Replacement with Clean Fill, Groundwater Remediation and Short-Term Institutional Controls

The short term effectiveness of this alternative for Site soils will be immediate in that contaminated soils will be removed and disposed of off-Site. Groundwater remediation during excavation dewatering and treatment will be immediate. Groundwater remediation via application of in-situ technologies would occur over a period of less than five (5) years. A short-term institutional control restricting groundwater usage would be in effect during in-situ remediation. Bi-annual groundwater monitoring would be conducted to gage the effectiveness of the in-situ groundwater remediation.

The community would be protected during the remedial action by establishing a work zone that excludes unauthorized individuals and by employing effective dust suppression techniques (application of water) and community dust monitoring. There would be no significant environmental impacts as a result of implementing this alternative.

Alternative No. 1 would have the greatest potential for short term impacts to Site workers because a large volume of soils would be excavated and transported off-Site.

Additionally, a large volume of water will be evacuated and treated during the contaminated soil excavations.

It is estimated that the contaminated soil excavation and excavation dewatering and treatment will take approximately six (6) months to complete. The in-situ bio-remediation of remaining impacted groundwater is estimated to take approximately five (5) years to complete.

3.6.2 Alternative No. 2: Emplacement of Cover Material with Institutional Controls, In-Situ Groundwater Remediation and Monitoring, Site Management Plan, and Soil Vapor Mitigation

The short term effectiveness of this remedy would be realized upon installation of the cover material and implementation of the institutional controls and Site Management Plan. Groundwater remediation through application of in-situ technologies would occur over a longer period. Long-term monitoring would be conducted to gauge the effectiveness of the groundwater remedial effort. The soil vapor mitigation system would be installed as a component of any future building construction.

Short term adverse impacts to affected populations during implementation of this alternative include the possible ingestion, dermal contact and inhalation of contaminants during application of the cover material, although these exposures would be less in comparison to Alternative 1. To minimize these impacts, dust suppression techniques in the form of the application of water and community dust monitoring at a minimum will need to be conducted.

It is estimated that emplacement of the cover material and in-situ application of the groundwater bio-remediation amendment will take approximately 10 weeks to complete. The in-situ bio-remediation of impacted groundwater is estimated to take approximately five (5) years to complete. The groundwater remediation phase of this alternative is anticipated to be instituted prior to the commencement of Site development. Emplacement of the barrier materials are anticipated to occur in conjunction with Site development.

3.6.3 Alternative No. 3: Emplacement of Cover Material with Institutional Controls, Site Management Plan, Soil Vapor Mitigation, and Monitoring Natural Attenuation

The short term effectiveness of this remedy would be realized upon installation of the cover material, and implementation of the institutional controls and Site Management Plan. Long-term groundwater monitoring would be conducted to gauge the effectiveness of natural attenuation. The soil vapor mitigation system would be installed as a component of any future building construction.

Short term adverse impacts to affected populations during implementation of this alternative include the possible ingestion, dermal contact and inhalation of contaminants during application of the cover, although these exposures would be less in comparison to Alternative 1. To minimize these impacts, dust suppression techniques in the form of the application of water and community dust monitoring at a minimum will need to be conducted.

It is estimated that emplacement of the cover material will take approximately 10 weeks to complete. Emplacement of the barrier materials are anticipated to occur in conjunction with Site development. MNA of the groundwater would be initiated upon approval of the Remedial Action Plan as presented in Section 2.4.3.

3.7 Implementability

3.7.1 Alternative No.1: Excavation and Disposal of Impacted Soils and Replacement with Clean Fill, Groundwater Remediation and Short-Term Institutional Controls

The technical difficulties that are anticipated during implementation of this alternative are considered moderate and include deep excavations with a dewatering and treatment component, the surveying and staking of adjoining property boundaries to ensure that the remedy does not encroach on adjoining properties; the installation and maintenance of silt fencing between the Site and adjoining properties and the installation of silt fencing and hay bales along the perimeter of Site wetlands and adjoining waterways for erosion control; construction and maintenance of a temporary road over unstabilized portions of the Site for the anticipated high volume of excavation equipment and truck traffic that will be traversing over the Site; and obtaining permits (if necessary) for the anticipated high volume of excavation equipment and truck traffic that will be entering and exiting the Site along NYS Route 4. Additionally, permits may need to be obtained for excavation of surface soils within the confines of federally regulated Wetland 7.

The implementation of the short-term institutional control involves only the drafting of legal documents and procedures that will be binding on future Site owners and developers.

3.7.2 Alternative No. 2: Emplacement of Cover Material with Institutional Controls, In-Situ Groundwater Remediation and Monitoring, Site Management Plan, and Soil Vapor Mitigation

Alternative No. 2 is easily implementable in that the cover material can be successfully installed employing common engineering and construction practices and the groundwater remediation will only involve injection of in-situ treatment materials into the Site's subsurface utilizing direct-push methodologies.

The implementation of institutional controls and the Site Management Plan involves only the drafting of legal documents (e.g., environmental easement and/or deed restrictions) and procedures that will be binding on future Site owners and developers. The institutional controls would be developed to protect affected populations during implementation of the remedial alternative and as guidance for future land owners and developers.

3.7.3 Alternative No. 3: Emplacement of Cover Material with Institutional Controls, Site Management Plan, Soil Vapor Mitigation, and Monitoring Natural Attenuation

Alternative No. 3 is easily implementable in that the cover material can be successfully installed employing common engineering and construction practices. MNA would be completed using standard groundwater sampling procedure and protocols.

The implementation of institutional controls and the Site Management Plan involves the drafting of legal documents (e.g., environmental easement and/or deed restrictions) and procedures that will be binding on future Site owners and developers. The institutional controls would be developed to protect affected populations during implementation of the remedial alternative and as guidance for future land owners and developers.

3.8 Land Use

The Site has historically been utilized for manufacturing purposes and is currently zoned for commercial use. There are currently no residential dwellings in near proximity to the Site.

The intended use of the Site will be for commercial purposes, which is consistent with current zoning and the Site's historical use. Implementation of either of the alternatives will not have an effect on the intended commercial use of the Site.

3.9 Cost

The associated costs for each of the remedial alternatives are presented in detail in Table 3.9-1, which is located in Appendix B. The following Table 3.9 presents the approximate lump costs for each of the alternatives.

TABLE 3.9: Lump Sum Costs Per Alternative

Description of Alternative	Estimated Lump Sum Cost
Alternative 1: Excavation and Disposal of Impacted Soils and Replacement with Clean Fill, Groundwater Remediation and Short-Term Institutional Control.	$17,936,184.25
Alternative 2: Emplacement of Cover Material with Institutional Controls, In-Situ Groundwater Remediation and Monitoring, Site Management Plan, and Soil Vapor Mitigation.	$1,060,460.50*
Alternative 3: Emplacement of Cover Material with Institutional Controls, Site Management Plan, Soil Vapor Mitigation, and Monitoring Natural Attenuation.	$780,408.50*

* The costs for the one foot barrier system do not account for costs associated with cover systems constructed of floor slabs and concrete and/or asphalt pavement systems.

3.10 Comparative Analysis

Utilizing the evaluation criteria, each remedial alternative is compared to the other on the basis of cost and effectiveness as a means to identify the most cost effective, protective remedy. Each alternative is therefore ranked as low, moderate or high in terms of being a cost-effective, protective remedy. Each of the alternatives satisfies the threshold criteria for overall protection of public health and the environment and compliance with SCGs.

Three (3) remedial alternatives were presented for the Site. These included: 1) Excavation and Disposal of Impacted Soils and Replacement with Clean Fill, Groundwater Remediation and Short-Term Institutional Control, 2) Emplacement of Cover Material with Institutional Controls, In-Situ Groundwater Remediation and Monitoring, Site Management Plan, and Soil Vapor Mitigation, and 3) Emplacement of Cover Material with Institutional Controls, Site Management Plan, Soil Vapor Mitigation, and Monitoring Natural Attenuation.

Alternative 1 is the most costly and least implementable of the alternatives as it involves the excavation and disposal of impacted soils and groundwater dewatering on approximately 8.27 acres of the Site, of which approximately 0.85 acres is located within the confines of Wetland 7, and replacement with clean fill. Implementing this alternative will be difficult due to deep excavations and dewatering, the anticipated high truck traffic volume entering and exiting the Site's north adjoining NYS Route 4, the large volume of groundwater requiring treatment, the potential for destruction of existing monitoring wells that are proposed to be used for short-term groundwater monitoring to gage the effectiveness of the in-situ groundwater remediation, potential additional impacts to Site wetlands not in the excavation footprint and adjoining waterways, and potential dust and noise nuisance problems to the surrounding community. As such, Alternative 1 is ranked as low for implementability and cost effectiveness, and high for protectiveness.

Alternative 2 is substantially less costly than Alternative 1, but would also protect potential Site occupants from Site contaminants by placement of a cover system and development of a Site Management Plan. This alternative is easily implementable as it involves the drafting of the Site Management Plan and placement of general fill and topsoil within the confines of the seven (7) acres of the Site requiring remediation and

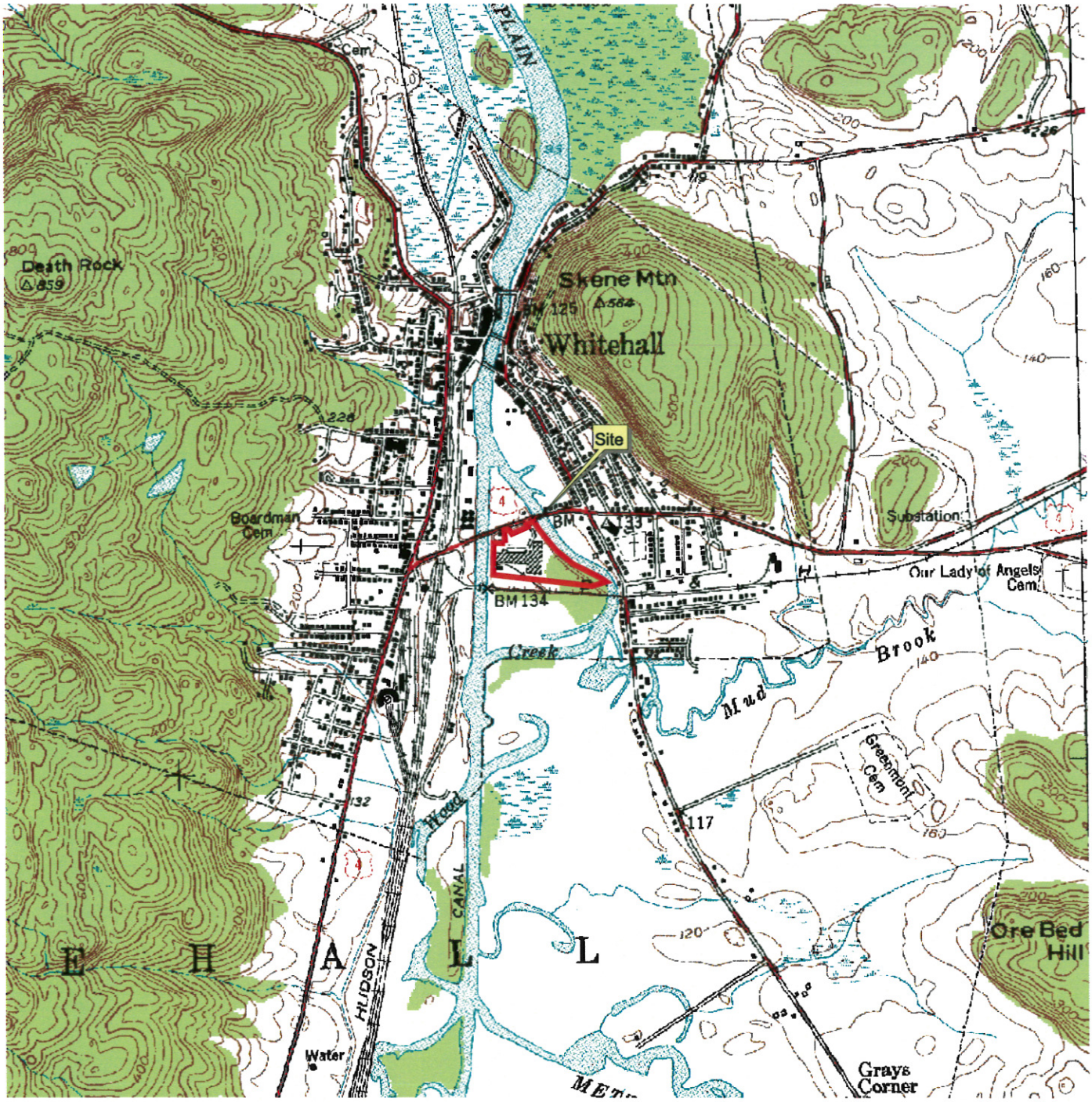
installation of vapor mitigation systems for any future Site buildings. Additionally, the federally regulated Site wetlands would not be disturbed and/or altered through application of this alternative. Placement of the cover system can be accomplished with minimal disturbance to Site soils. Minimal dewatering may be required with Alternative 2 for surface water that may have pooled at the ground surface. The potential for destruction of the monitoring wells to gage the effectiveness of in-situ groundwater remediation would be greatly reduced. The in-situ enhanced bio-remediation of groundwater would reduce the bulk of the contaminants in this medium, but possibly no more effective than the natural attenuation processes currently at work in reducing the VOC contaminant concentrations in groundwater. As such, Alternative 2 is ranked as moderate for cost effectiveness and high for protectiveness.

Alternative 3 is substantially less costly than Alternative 1 and, to a lesser degree, than the costs for Alternative 2. Alternative 3 would protect potential Site occupants from Site contaminants by placement of a cover system and development of a Site Management Plan. This alternative is easily implementable as it involves the drafting of the Site Management Plan and placement of general fill and topsoil within the confines of the seven (7) acres of the Site requiring remediation and installation of vapor mitigation systems for any future Site buildings. Placement of the cover system can be accomplished with minimal disturbance to Site soils. Monitoring natural attenuation could be initiated at anytime as the monitoring wells necessary for this effort are currently in place. As such, Alternative 3 is ranked as high for cost effectiveness and protectiveness.

Based on the evaluation of each alternative and the fact that all of the alternatives will attain the goal of eliminating public exposures to Site contaminants, Alternative 3 is the most cost effective, protective remedy for the Site.

FIGURE 1

SITE LOCATION MAP



MAP REFERENCE
USGS Topographic Map
Whitehall, NY Quadrangle, Dated 2000
7.5 Minute Series, NAD 83 UTM18N
Topo downloaded from CUGIRon 7/8/10

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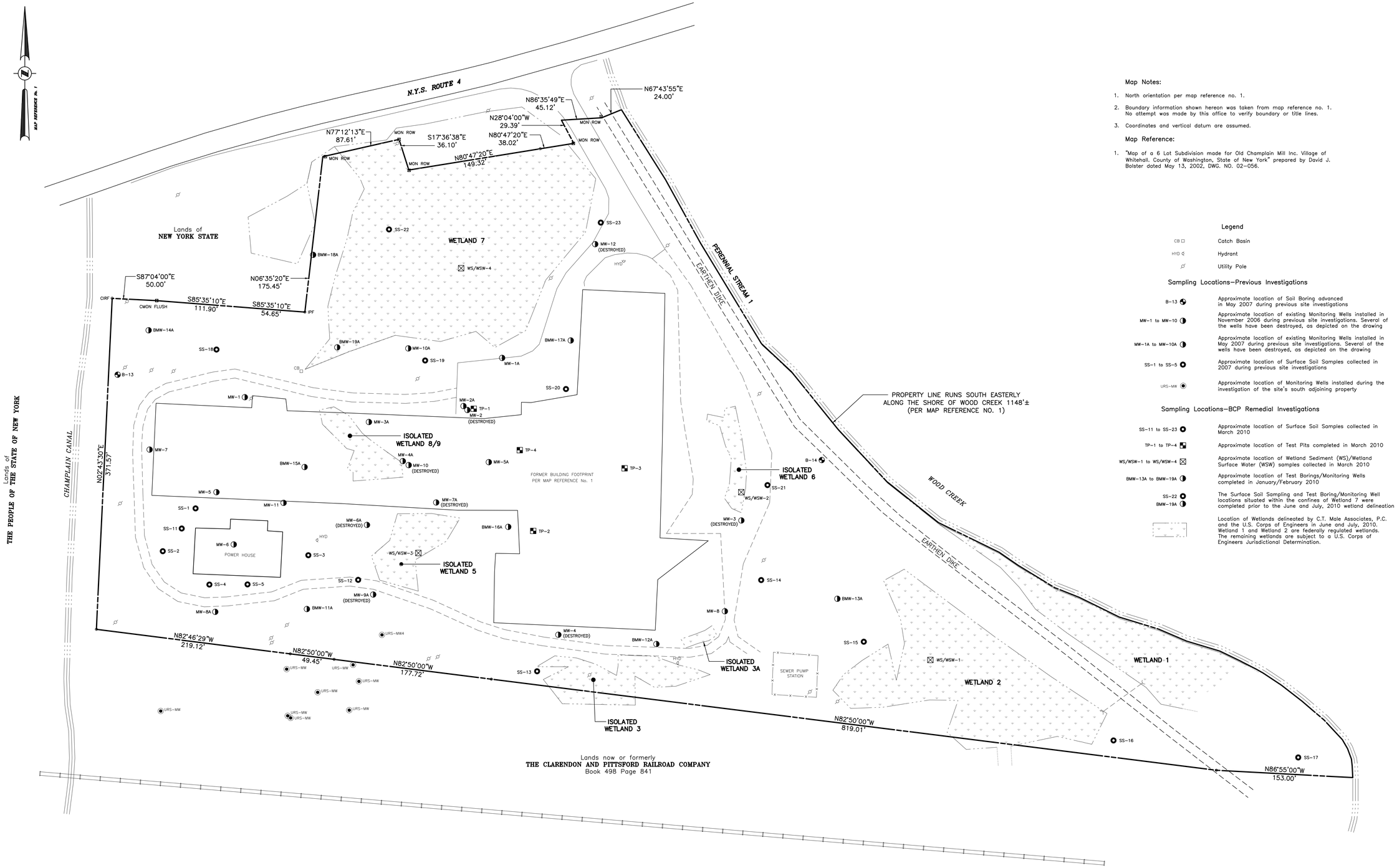
FIGURE 1 SITE LOCATION MAP

Old Champlain Mill

VILLAGE OF WHITEHALL	WASHINGTON COUNTY, NY
SCALE: 1"=1,000'	
DRAFTER: JLM	
PROJECT NO: 06.6448	

FIGURE 2

SITE PLAN



Map Notes:

1. North orientation per map reference no. 1.
2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
3. Coordinates and vertical datum are assumed.

Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall. County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02–056.

Legend

CB □	Catch Basin
HYD ◁	Hydrant
⌀	Utility Pole

Sampling Locations–Previous Investigations

B-13	Approximate location of Soil Boring advanced in May 2007 during previous site investigations
MW-1 to MW-10	Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
MW-1A to MW-10A	Approximate location of existing Monitoring Wells installed in May 2007 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
SS-1 to SS-5	Approximate location of Surface Soil Samples collected in 2007 during previous site investigations
URS-MW	Approximate location of Monitoring Wells installed during the investigation of the site's south adjoining property

Sampling Locations–BCP Remedial Investigations

SS-11 to SS-23	Approximate location of Surface Soil Samples collected in March 2010
TP-1 to TP-4	Approximate location of Test Pits completed in March 2010
WS/WSW-1 to WS/WSW-4	Approximate location of Wetland Sediment (WS)/Wetland Surface Water (WSW) samples collected in March 2010
BMW-13A to BMW-19A	Approximate location of Test Borings/Monitoring Wells completed in January/February 2010
SS-22 / BMW-19A	The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation
	Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.

BAR SCALE
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1 inch = 50 ft.

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CHECKED : S.BEIBER
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SCALE : 1"=50'
DATE : OCT. 25, 2010

FIGURE-2
SITE PLAN

OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

C.T. MALE ASSOCIATES, P.C.
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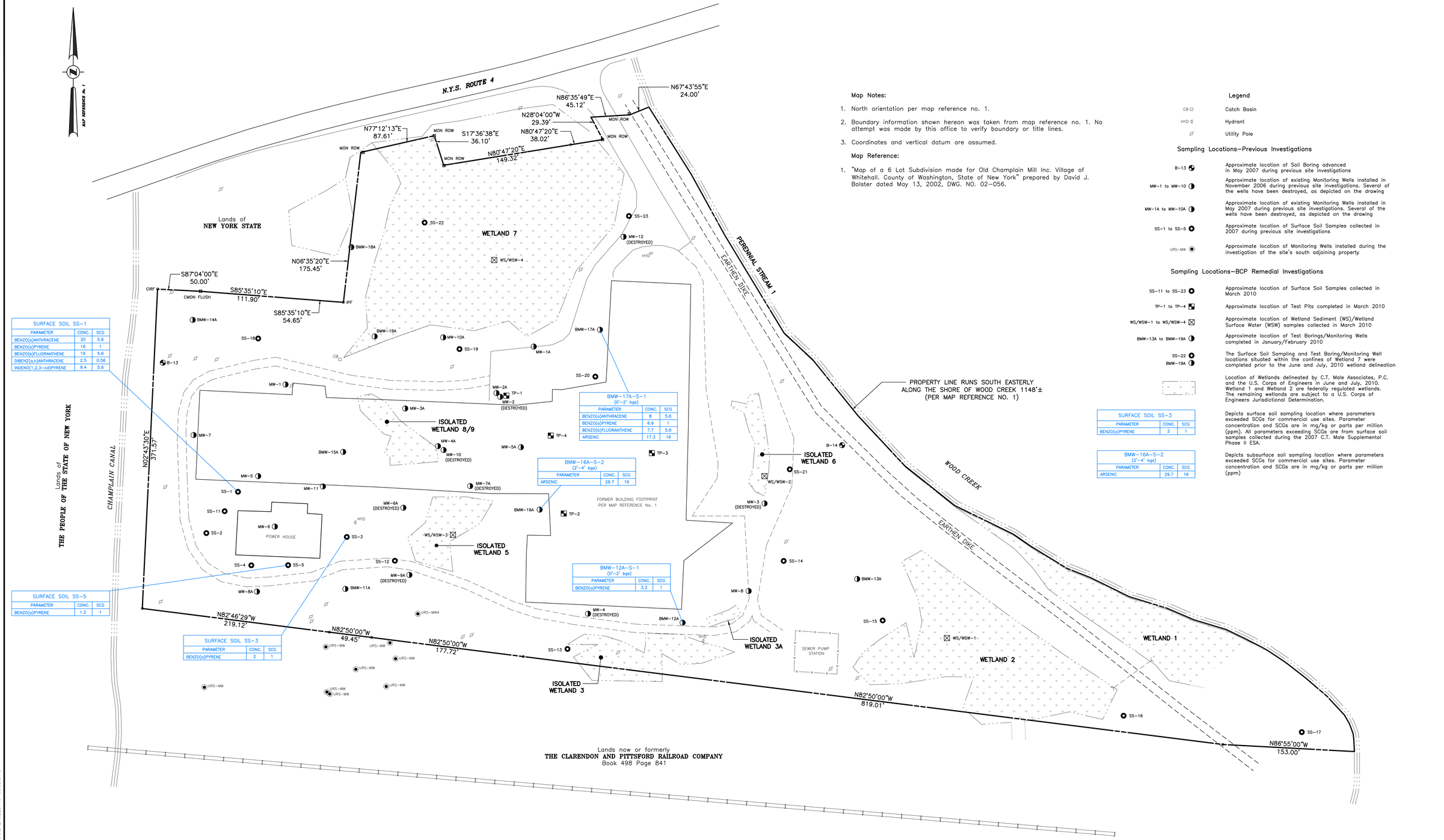
SHEET 1 OF 1
DWG. NO: 10–XXX

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CAD DWG. FILE NAME: FIGURE-2.DWG

FIGURE 3

CONTAMINANTS IN SOIL EXCEEDING SCGS



SURFACE SOIL SS-1		
PARAMETER	CONC.	SCG
BENZO(a)ANTHRACENE	20	5.6
BENZO(a)PYRENE	16	1
BENZO(b)FLUORANTHENE	19	5.6
DIBENZ(a,h)ANTHRACENE	2.5	0.56
INDENO(1,2,3-cd)PYRENE	9.4	5.6

BMW-17A-S-1 (0'-2' bgs)		
PARAMETER	CONC.	SCG
BENZO(a)ANTHRACENE	8	5.6
BENZO(a)PYRENE	6.9	1
BENZO(b)FLUORANTHENE	7.7	5.6
ARSENIC	17.3	16

BMW-16A-S-2 (2'-4' bgs)		
PARAMETER	CONC.	SCG
ARSENIC	29.7	16

BMW-12A-S-1 (0'-2' bgs)		
PARAMETER	CONC.	SCG
BENZO(a)PYRENE	3.3	1

SURFACE SOIL SS-5		
PARAMETER	CONC.	SCG
BENZO(a)PYRENE	1.2	1

SURFACE SOIL SS-3		
PARAMETER	CONC.	SCG
BENZO(a)PYRENE	2	1

SURFACE SOIL SS-3		
PARAMETER	CONC.	SCG
BENZO(a)PYRENE	2	1

BMW-16A-S-2 (2'-4' bgs)		
PARAMETER	CONC.	SCG
ARSENIC	29.7	16

Map Notes:

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2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
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Legend

CB □	Catch Basin
HYD ◇	Hydrant
∅	Utility Pole

Sampling Locations–Previous Investigations

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Sampling Locations–BCP Remedial Investigations

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	Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.
	Depicts surface soil sampling location where parameters exceeded SCGs for commercial use sites. Parameter concentration and SCGs are in mg/kg or parts per million (ppm). All parameters exceeding SCGs are from surface soil samples collected during the 2007 C.T. Male Supplemental Phase II ESA.
	Depicts subsurface soil sampling location where parameters exceeded SCGs for commercial use sites. Parameter concentration and SCGs are in mg/kg or parts per million (ppm)

BAR SCALE
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1 inch = 50 ft.

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SCALE : 1"=50'
DATE : OCT. 25, 2010

FIGURE-3
CONTAMINANTS IN SOIL EXCEEDING SCGs

OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

C.T. MALE ASSOCIATES, P.C.
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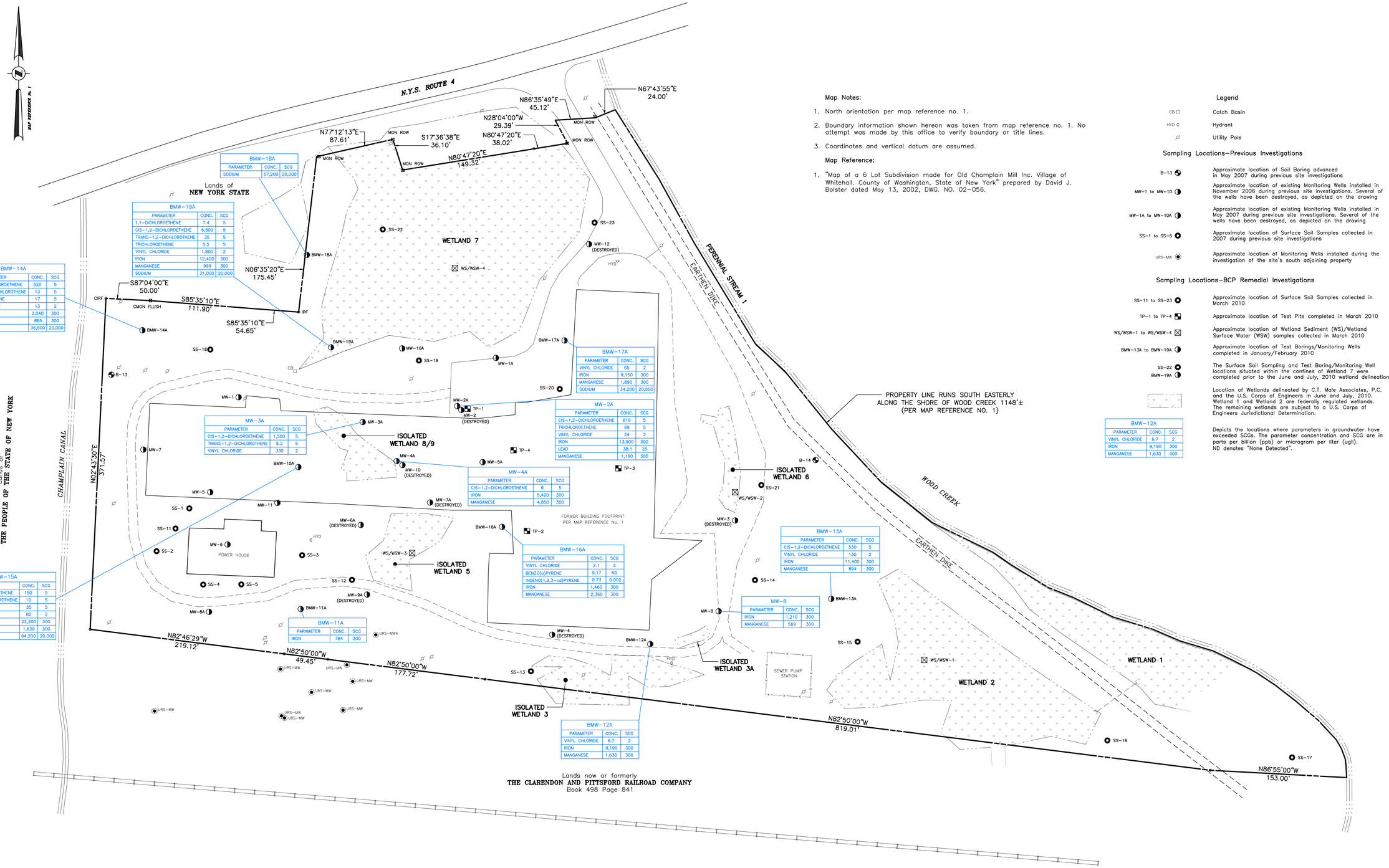
SHEET 1 OF 1
DWG. NO: 10-XXX

CAD DWG. FILE NAME: FIGURE-3 CONTAMINANTS IN SOIL EXCEEDING SCGS.DWG

CAD DWG. FILE NAME: FIGURE-3 CONTAMINANTS IN SOIL EXCEEDING SCGS.DWG

FIGURE 4

CONTAMINANTS IN GROUNDWATER EXCEEDING SCGS



Map Notes:

1. North orientation per map reference no. 1.
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Legend

- CB □ — Catch Basin
- HYD ◇ — Hydrant
- Utility Pole

Sampling Locations—Previous Investigations

- B-13 — Approximate location of Soil Boring advanced in May 2007 during previous site investigations
- MW-1 to MW-10 — Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
- MW-1A to MW-10A — Approximate location of existing Monitoring Wells installed in May 2007 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
- SS-1 to SS-5 — Approximate location of Surface Soil Samples collected in 2007 during previous site investigations
- URS-MW — Approximate location of Monitoring Wells installed during the investigation of the site's south adjoining property

Sampling Locations—BCP Remedial Investigations

- SS-11 to SS-23 — Approximate location of Surface Soil Samples collected in March 2010
- TP-1 to TP-4 — Approximate location of Test Pits completed in March 2010
- WS/WSW-1 to WS/WSW-4 — Approximate location of Wetland Sediment (WS)/Wetland Surface Water (WSW) samples collected in March 2010
- BMW-13A to BMW-19A — Approximate location of Test Borings/Monitoring Wells completed in January/February 2010
- SS-22 / BMW-19A — The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation
- Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.

BMW-12A

PARAMETER	CONC.	SCG
VINYL CHLORIDE	6.7	2
IRON	9,190	300
MANGANESE	1,630	300

Depicts the locations where parameters in groundwater have exceeded SCGs. The parameter concentration and SCG are in parts per billion (ppb) or microgram per liter (ug/l). ND denotes "None Detected".

BAR SCALE
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1 inch = 50 ft.

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FIGURE-4
CONTAMINANTS IN GROUNDWATER EXCEEDING SCGs

OLD CHAMPLAIN MILL SITE

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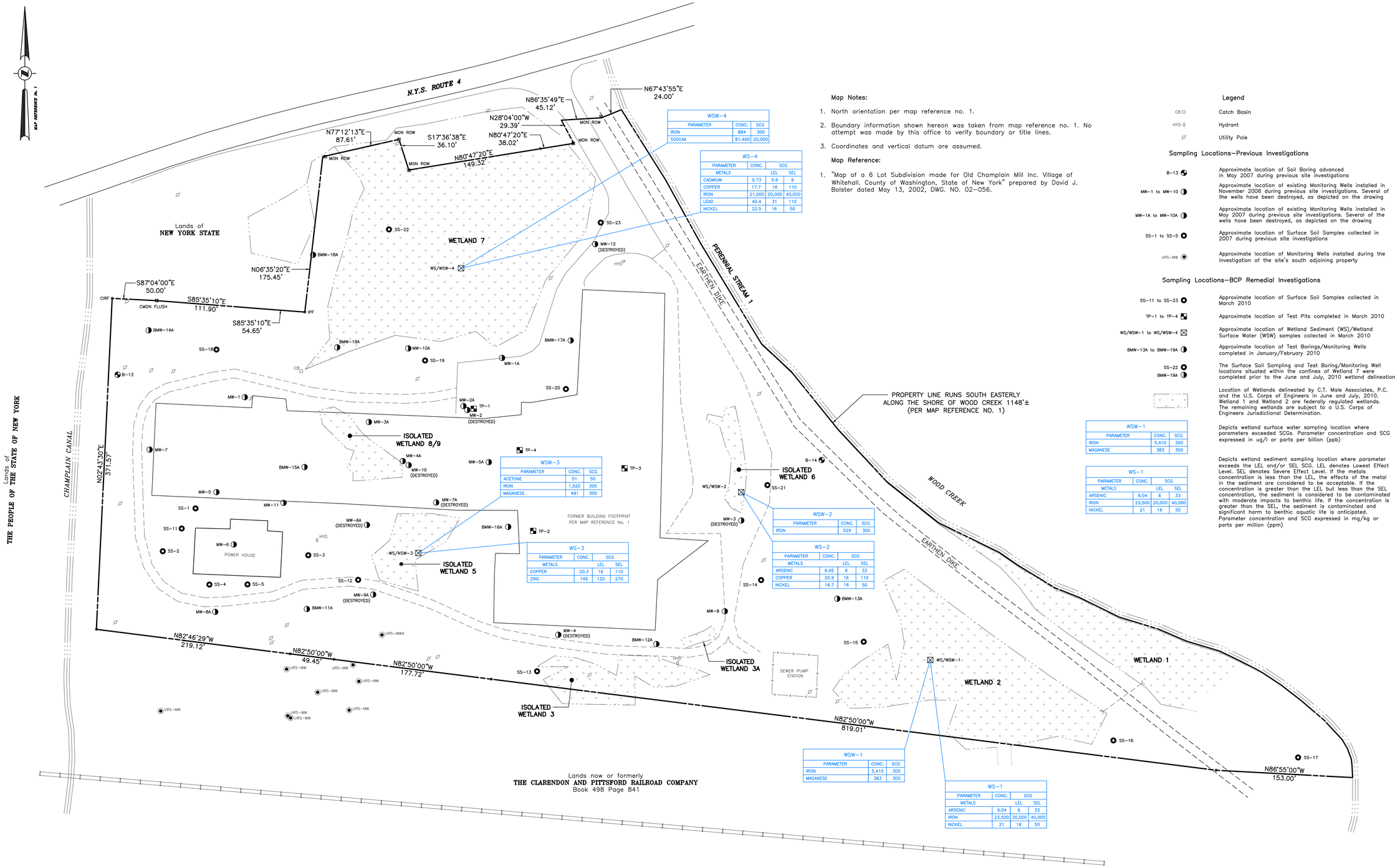
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CAD DWG. FILE NAME: FIGURE-4 CONTAMINANTS IN GW EXCEEDING SCGS.DWG

CAD DWG. FILE NAME: FIGURE-4 CONTAMINANTS IN GW EXCEEDING SCGS.DWG

FIGURE 5

CONTAMINANTS IN SURFACE WATER/SEDIMENTS EXCEEDING SCGS



WSW–4		
PARAMETER	CONC.	SCG
IRON	884	300
SODIUM	81,400	20,000

WS–4			
PARAMETER	CONC.	SCG	
METALS		LEL	SEL
CADMIUM	0.73	0.6	9
COPPER	17.7	16	110
IRON	21,000	20,000	40,000
LEAD	40.4	31	110
NICKEL	22.5	16	50

WSW–3		
PARAMETER	CONC.	SCG
ACETONE	51	50
IRON	1,520	300
MAGANESE	491	300

WS–3			
PARAMETER	CONC.	SCG	
METALS		LEL	SEL
COPPER	20.3	16	110
ZINC	146	120	270

WSW–2		
PARAMETER	CONC.	SCG
IRON	529	300

WS–2			
PARAMETER	CONC.	SCG	
METALS		LEL	SEL
ARSENIC	6.05	6	33
COPPER	20.9	16	110
NICKEL	16.7	16	50

WSW–1		
PARAMETER	CONC.	SCG
IRON	5,410	300
MAGANESE	383	300

WS–1			
PARAMETER	CONC.	SCG	
METALS		LEL	SEL
ARSENIC	6.04	6	33
IRON	23,500	20,000	40,000
NICKEL	21	16	50

Map Notes:

1. North orientation per map reference no. 1.
2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
3. Coordinates and vertical datum are assumed.

Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall. County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02–056.

Legend

- CB □ — Catch Basin
- HYD ◇ — Hydrant
- Utility Pole

Sampling Locations–Previous Investigations

- B–13 — Approximate location of Soil Boring advanced in May 2007 during previous site investigations
- MW–1 to MW–10 — Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
- MW–1A to MW–10A — Approximate location of existing Monitoring Wells installed in May 2007 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
- SS–1 to SS–5 — Approximate location of Surface Soil Samples collected in 2007 during previous site investigations
- URS–MW — Approximate location of Monitoring Wells installed during the investigation of the site's south adjoining property

Sampling Locations–BCP Remedial Investigations

- SS–11 to SS–23 — Approximate location of Surface Soil Samples collected in March 2010
- TP–1 to TP–4 — Approximate location of Test Pits completed in March 2010
- WS/WSW–1 to WS/WSW–4 — Approximate location of Wetland Sediment (WS)/Wetland Surface Water (WSW) samples collected in March 2010
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- SS–22 / BMW–19A — The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation
- Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.
- Depicts wetland surface water sampling location where parameters exceeded SCGs. Parameter concentration and SCG expressed in ug/l or parts per billion (ppb)
- Depicts wetland sediment sampling location where parameter exceeds the LEL and/or SEL SCG. LEL denotes Lowest Effect Level. SEL denotes Severe Effect Level. If the metals concentration is less than the LEL, the effects of the metal in the sediment are considered to be acceptable. If the concentration is greater than the LEL but less than the SEL concentration, the sediment is considered to be contaminated with moderate impacts to benthic life. If the concentration is greater than the SEL, the sediment is contaminated and significant harm to benthic aquatic life is anticipated. Parameter concentration and SCG expressed in mg/kg or parts per million (ppm)

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1 inch = 50 ft.

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FIGURE-5
CONTAMINANTS IN SURFACE WATER/SEDIMENTS EXCEEDING SCGs

OLD CHAMPLAIN MILL SITE

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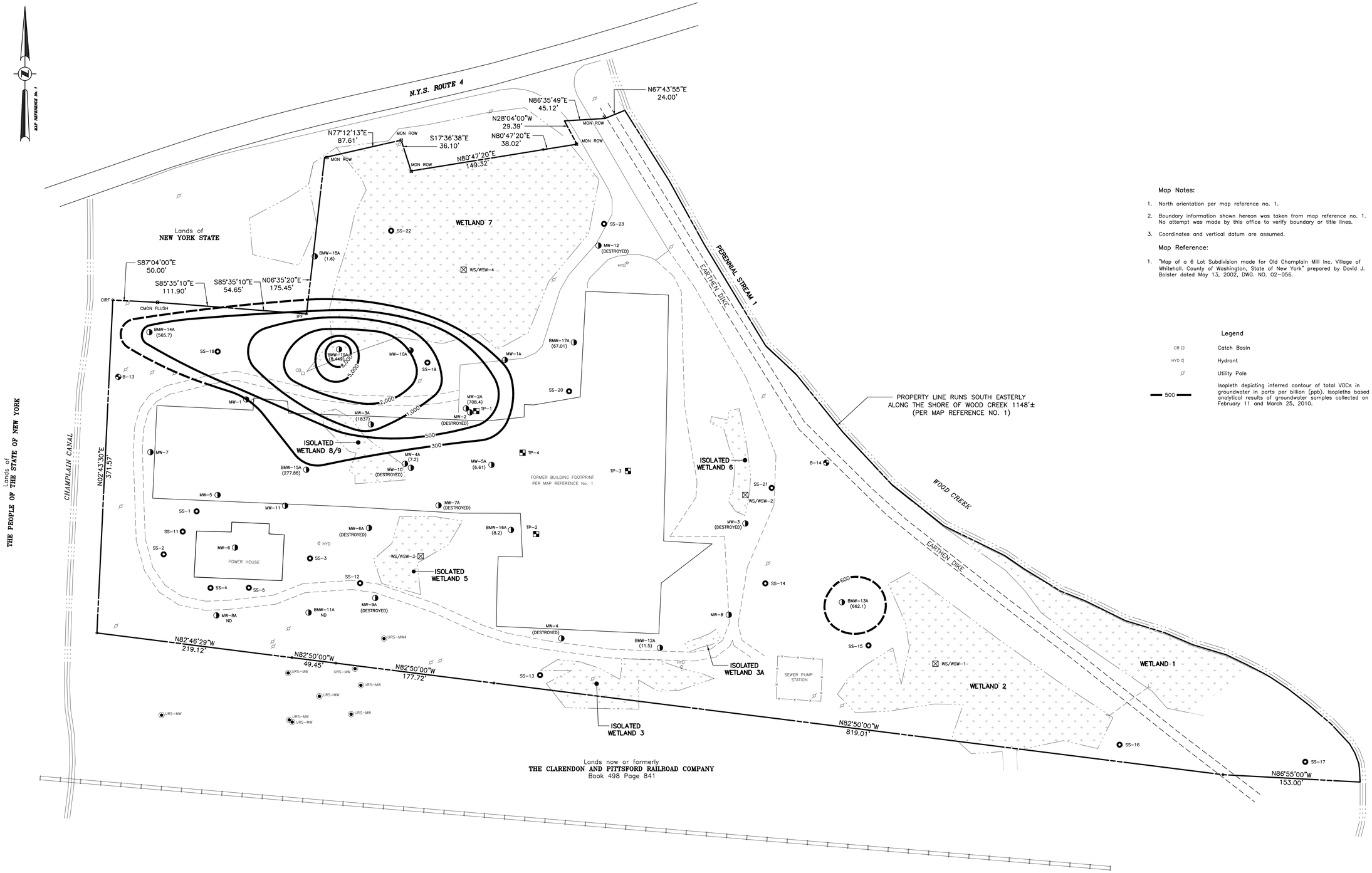
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CAD DWG. FILE NAME: FIGURE–5 CONTAMINANTS IN SW SEDIMENTS EXCEEDING SCGS.DWG

CAD DWG. FILE NAME: FIGURE–5 CONTAMINANTS IN SW SEDIMENTS

FIGURE 6

TOTAL VOCS IN GROUNDWATER ISOCONCENTRATION CONTOUR MAP FOR RI



Map Notes:

1. North orientation per map reference no. 1.
2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
3. Coordinates and vertical datum are assumed.

Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall, County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

CB □	Catch Basin
HYD ◁	Hydrant || ⌀	Utility Pole
— 500 —	Isopleth depicting inferred contour of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on February 11 and March 25, 2010.

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

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FIGURE-6
TOTAL VOCs IN GROUNDWATER ISOCONCENTRATION MAP

OLD CHAMPLAIN MILL SITE

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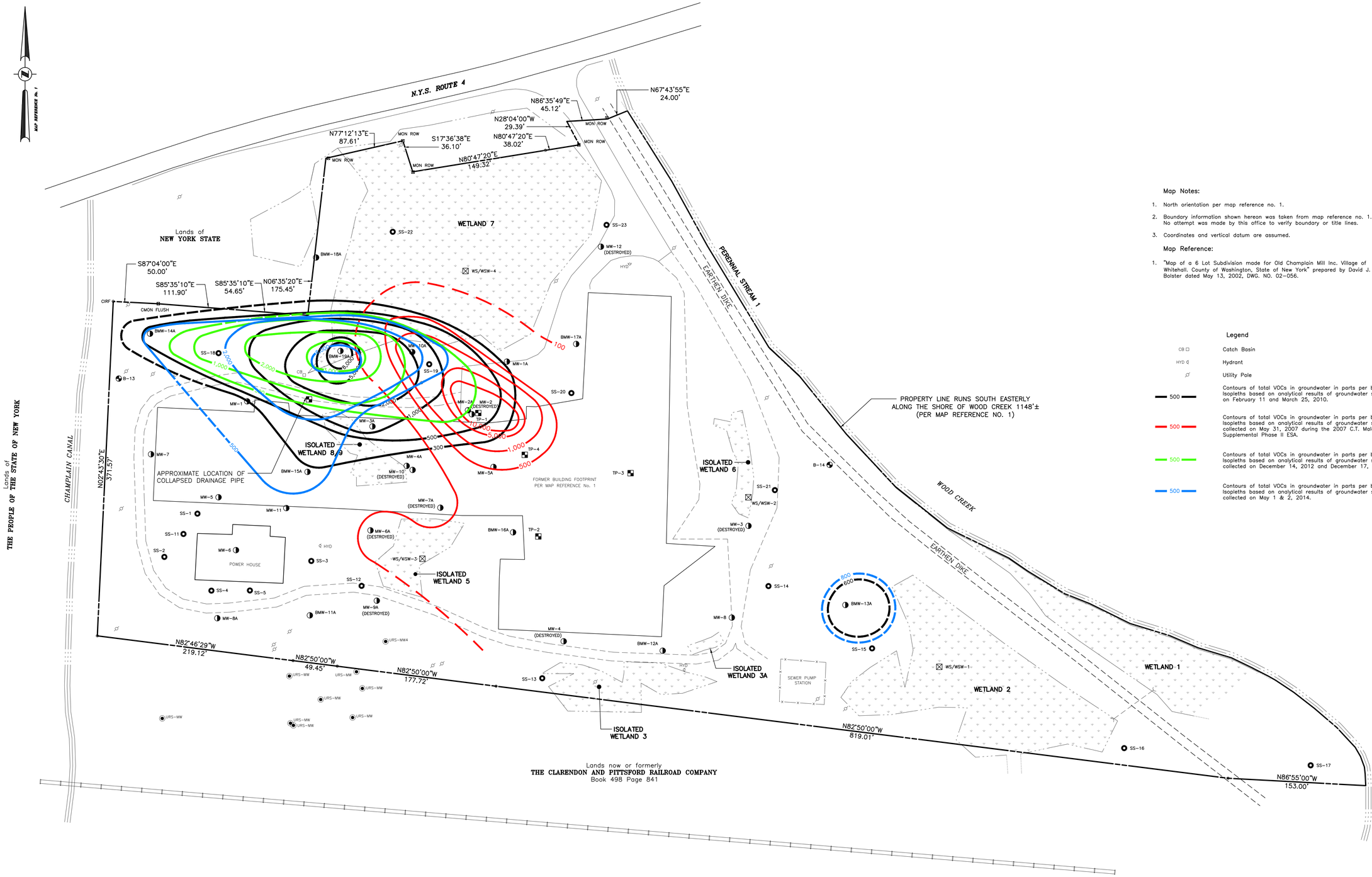
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FIGURE 6A

TOTAL VOCS IN GROUNDWATER ISOCONCENTRATION CONTOUR MAP COMPARISON FOR 2007, 2010, 2012 AND 2014 GROUNDWATER SAMPLING



Map Notes:

1. North orientation per map reference no. 1.
2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
3. Coordinates and vertical datum are assumed.

Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall, County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

CB	Catch Basin
HYD	Hydrant
	Utility Pole
500	Contours of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on February 11 and March 25, 2010.
500	Contours of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on May 31, 2007 during the 2007 C.T. Male Supplemental Phase II ESA.
500	Contours of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on December 14, 2012 and December 17, 2012.
500	Contours of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on May 1 & 2, 2014.

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DATE : MAY 20, 2014

FIGURE-6A
TOTAL CVOC IN GROUNDWATER, ISOCONCENTRATION MAP COMPARISON FOR 2007, 2010, 2012 & 2014 GROUNDWATER SAMPLING

OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscaping Architecture, D.P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
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CAD DWG. FILE NAME: FIGURE-6A - 2014.dwg

FIGURE 7

EXTENT OF REMEDIATION FOR SOILS EXCEEDING UNRESTRICTED USE SCOS

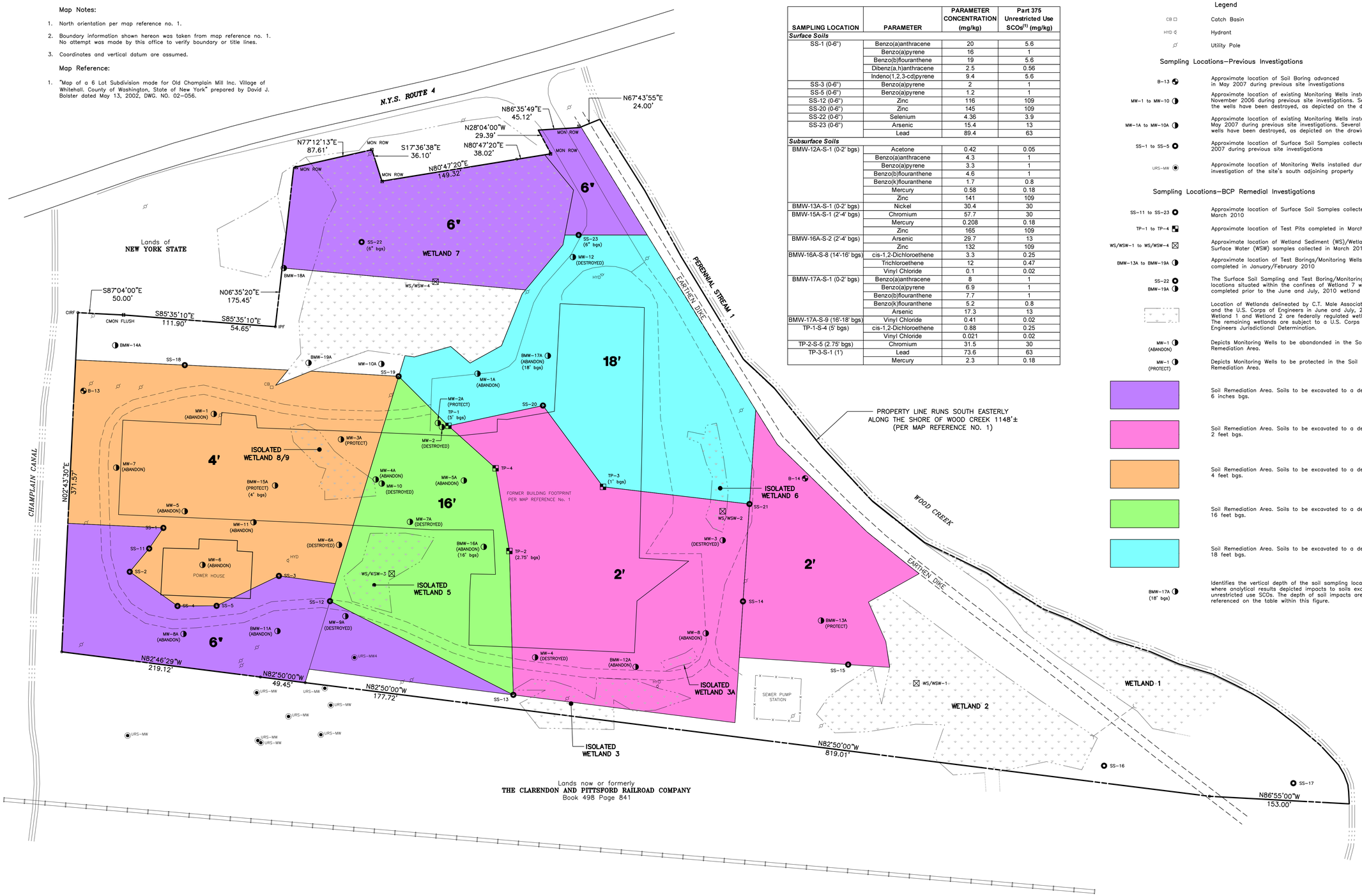
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MAP REFERENCE No. 1



SAMPLING LOCATION	PARAMETER	PARAMETER CONCENTRATION (mg/kg)	Part 375 Unrestricted Use SCOs[1] (mg/kg)
Surface Soils			
SS-1 (0-6")	Benzo(a)anthracene	20	5.6
	Benzo(a)pyrene	16	1
	Benzo(b)flouranthene	19	5.6
	Dibenz(a,h)anthracene	2.5	0.56
	Indeno(1,2,3-cd)pyrene	9.4	5.6
SS-3 (0-6")	Benzo(a)pyrene	2	1
SS-5 (0-6")	Benzo(a)pyrene	1.2	1
SS-12 (0-6")	Zinc	116	109
SS-20 (0-6")	Zinc	145	109
SS-22 (0-6")	Selenium	4.36	3.9
SS-23 (0-6")	Arsenic	15.4	13
	Lead	89.4	63
Subsurface Soils			
BMW-12A-S-1 (0-2' bgs)	Acetone	0.42	0.05
	Benzo(a)anthracene	4.3	1
	Benzo(a)pyrene	3.3	1
	Benzo(b)flouranthene	4.6	1
	Benzo(k)flouranthene	1.7	0.8
	Mercury	0.58	0.18
	Zinc	141	109
BMW-13A-S-1 (0-2' bgs)	Nickel	30.4	30
BMW-15A-S-1 (2'-4' bgs)	Chromium	57.7	30
	Mercury	0.208	0.18
	Zinc	165	109
BMW-16A-S-2 (2'-4' bgs)	Arsenic	29.7	13
	Zinc	132	109
BMW-16A-S-8 (14'-16' bgs)	cis-1,2-Dichloroethene	3.3	0.25
	Trichloroethene	12	0.47
	Vinyl Chloride	0.1	0.02
BMW-17A-S-1 (0-2' bgs)	Benzo(a)anthracene	8	1
	Benzo(a)pyrene	6.9	1
	Benzo(b)flouranthene	7.7	1
	Benzo(k)flouranthene	5.2	0.8
	Arsenic	17.3	13
BMW-17A-S-9 (16'-18' bgs)	Vinyl Chloride	0.41	0.02
TP-1-S-4 (5' bgs)	cis-1,2-Dichloroethene	0.88	0.25
	Vinyl Chloride	0.021	0.02
TP-2-S-5 (2.75' bgs)	Chromium	31.5	30
TP-3-S-1 (1')	Lead	73.6	63
	Mercury	2.3	0.18

Legend

- CB □ — Catch Basin
- HYD ◇ — Hydrant
- ⌀ — Utility Pole

Sampling Locations–Previous Investigations

- B-13 — Approximate location of Soil Boring advanced in May 2007 during previous site investigations
- MW-1 to MW-10 — Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
- MW-1A to MW-10A — Approximate location of existing Monitoring Wells installed in May 2007 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
- SS-1 to SS-5 — Approximate location of Surface Soil Samples collected in 2007 during previous site investigations
- URS-MW — Approximate location of Monitoring Wells installed during the investigation of the site's south adjoining property

Sampling Locations–BCP Remedial Investigations

- SS-11 to SS-23 — Approximate location of Surface Soil Samples collected in March 2010
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- SS-22 / BMW-19A — The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation
- Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.
- MW-1 (ABANDON) — Depicts Monitoring Wells to be abandonded in the Soil Remediation Area.
- MW-1 (PROTECT) — Depicts Monitoring Wells to be protected in the Soil Remediation Area.
- Soil Remediation Area. Soils to be excavated to a depth of 6 inches bgs.
- Soil Remediation Area. Soils to be excavated to a depth of 2 feet bgs.
- Soil Remediation Area. Soils to be excavated to a depth of 4 feet bgs.
- Soil Remediation Area. Soils to be excavated to a depth of 16 feet bgs.
- Soil Remediation Area. Soils to be excavated to a depth of 18 feet bgs.
- BMW-17A (18' bgs) — Identifies the vertical depth of the soil sampling location where analytical results depicted impacts to soils exceeding unrestricted use SCOs. The depth of soil impacts are cross referenced on the table within this figure.

BAR SCALE
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1 inch = 50 ft.

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FIGURE-7
EXTENT OF REMEDIATION FOR SOILS EXCEEDING UNRESTRICTED USE SCOs

OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

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CAD DWG. FILE NAME: FIGURE-7.DWG

APPENDIX A

TABLE 1.3.1-2 SUMMARY OF GROUNDWATER AND SURFACE WATER SAMPLING RESULTS (2006 C.T. MALE PHASE II ESA)

TABLE 1.3.1-3: SUMMARY OF GROUNDWATER SAMPLING RESULTS (2007 C.T. MALE SUPPLEMENTAL PHASE II ESA)

TABLE 1.3.1-4: GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS

TABLE 1.3.1-2
SUMMARY OF GROUNDWATER AND SURFACE WATER SAMPLING RESULTS
2006 C.T. MALE PHASE II ESA
OLD CHAMPLAIN MILL BCP SITE

PARAMETER	SAMPLE LOCATION AND CONCENTRATION											6NYCRR PART 703.5 GROUNDWATER STANDARD (2)
	MW-1 mg/l	MW-2 mg/l	MW-3 mg/l	MW-4 mg/l	MW-5 mg/l	MW-6 mg/l	MW-7 mg/l	MW-8 mg/l	SW-9 mg/l	MW-10 mg/l	MW-11 mg/l	mg/l
8 RCRA METALS												
Silver	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.050
Arsenic	<0.004	0.005	0.012	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.025
Barium	0.083	0.068	0.454	0.226	0.217	0.231	0.095	0.136	0.047	0.091	0.184	1
Chromium	0.009	0.003	**0.063**	0.005	0.024	0.022	0.005	0.011	0.002	0.01	0.007	0.050
Mercury	<0.0002	<0.0002	0.0005	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0007
Lead	0.009	0.007	**0.201**	0.008	**0.031**	0.009	0.008	0.02	0.002	0.003	0.013	0.025

mg/l=Parts Per Million
BDL=Below Detection Limit
Values which exceed their respective groundwater standard are depicted in bold type.
(1) Only the compounds that were detected are listed.
(2) TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, April 2000.

TABLE 1.3.1-3
SUMMARY OF GROUNDWATER SAMPLING RESULTS
2007 C.T. MALE SUPPLEMENTAL PHASE II ESA
OLD CHAMPLAIN MILL BCP SITE

PARAMETER	SAMPLE LOCATION AND CONCENTRATION										6NYCRR PART 703.5 GROUNDWATER STANDARD (2)
	MW-1A ug/l	MW-2A ug/l	MW-3A ug/l	MW-4A ug/l	MW-5A ug/l	MW-6A ug/l	MW-7A ug/l	MW-8A ug/l	SW-9A ug/l	MW-10A ug/l	ug/l
VOLATILE ORGANIC COMPOUNDS											
1,1 Dichlroethene	ND	**8.4**	ND	ND	ND	ND	ND	ND	ND	ND	0.7*
Cis-1,2-dichloroethene	**160**	**7500**	**15**	**13**	**530**	**160**	**17**	**12**	ND	**1300**	5
Methylene chloride	**9.7**	**9.3**	ND	ND	**10**	**11**	**11**	**11**	**10**	**9.2**	5
Naphthalene	ND	ND	ND	ND	ND	ND	**42**	ND	ND	ND	10
Trans-1,2-Dicholoroethene	ND	**47**	ND	ND	**14**	ND	ND	ND	ND	**8.9**	5
Trichloroethene	ND	**3300**	ND	ND	**88**	**140**	**7.2**	ND	ND	**10**	5
Vinyl chloride	**87**	**210**	ND	ND	**160**	**9.4**	ND	ND	ND	**440**	2
Total VOCs	**256.7**	**11074.7**	15	13	**802**	**320.4**	77.2	23	10	**1768.1**	

ug/l=Parts Per Billion
ND=Below Method Detection Limit
Values which exceed their respective groundwater standard are depicted in bold type.
*This is a Guidance Value
(1) Only the compounds that were detected are listed.
(2) TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, April 2000.

TABLE 1.3.1-4: GROUNDWATER ANALYTICAL RESULTS SUMMARY
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	MW-1A										MW-2A											
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/2/2014		5/31/2007		2/11/2010		3/25/2010		3/25/2010 (FD)		12/17/2012		5/2/2014	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		NS		0.29	J	**8.4**		NS		3.2		3.3		1.7	J	1.8	
Acetone	50 (GV)	ND		NS		NS		NS		1	U	ND		NS		4.2	J	5	UJ	25	U	1	U
Chloroform	7	ND		NS		NS		NS		0.2	U	ND		NS		1	U	1	U	12	U	0.2	U
cis-1,2-Dichloroethene	5	**160**		NS		NS		NS		**41.4**		**7,500**		NS		**580**		**610**		**310**		**61.3**	
Methylene Chloride	5	**9.7**		NS		NS		NS		0.2	U	**9.3**		NS		1	U	1	U	12	U	0.2	U
Naphthalene	10	ND		NS		NS		NS		NA		ND		NS		NA		NA		12	U	NA	
o-Xylene	5	ND		NS		NS		NS		0.2	U	ND		NS		1	U	1	U	12	U	0.2	U
trans-1,2-Dichloroethene	5	ND		NS		NS		NS		0.2	U	**47**		NS		3.8		4.1		12	U	0.66	J
Trichloroethene	5	ND		NS		NS		NS		0.2	U	**3,300**		NS		**69**		**67**		**190**		**75.4**	
Vinyl Chloride	2	**87**		NS		NS		NS		**21.9**		**210**		NS		**23**		**24**		**9.7**		0.2	U
TOTAL VOCs		256.7								63.59		11,074.7				683.2		708.4		511.4		139.16	

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	MW-3A										MW-4A											
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/1/2014		5/31/2007		2/11/2010		3/25/2010				12/14/2012		5/1/2014	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier			Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		1.7		0.5	U	0.32	J	ND		NS		1	U			NS		0.2	U
Acetone	50 (GV)	ND		NS		5	U	5	U	1	U	ND		NS		5	U			NS		1	U
Chloroform	7	ND		NS		1	U	2.5	U	0.2	U	ND		NS		1	U			NS		0.2	U
cis-1,2-Dichloroethene	5	**15**		NS		**1,500**		**6.7**		**200**	D	**13**		NS		**6**				NS		5	
Methylene Chloride	5	ND		NS		1	U	2.5	U	0.2	U	ND		NS		1	U			NS		0.2	U
Naphthalene	10	ND		NS		NA		2.5	U	NA		ND		NS		NA				NS		NA	
o-Xylene	5	ND		NS		1	U	2.5	U	0.2	U	ND		NS		1	U			NS		0.2	U
trans-1,2-Dichloroethene	5	ND		NS		**5.2**		2.5	U	0.69	J	ND		NS		1	U			NS		0.69	J
Trichloroethene	5	ND		NS		1	U	0.5	U	0.2	U	ND		NS		1.2				NS		1.2	
Vinyl Chloride	2	ND		NS		**330**		1.3		**50.9**		ND		NS		1	U			NS		0.2	U
TOTAL VOCs		15				1,836.9		8		251.91		13				7.2						6.89	

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
Concentrations expressed in ug/l or parts per billion (ppb)
U indicates that the compound was analyzed for but not detected
J indicates an estimated value
GV denotes a Guidance Value
ND denotes "Non-Detect"
NA denotes "Not Analyzed"
NS denotes "Not Sampled"
2/11/2010 (FD) is a duplicate of BMW-16A
3/25/2010 (FD) is a duplicate of MW-2A
12/14/2012 (FD) is a duplicate of MW-10A
5/1/2014 (FD) is a duplicate of MW-15A

TABLE 1.3.1-4: GROUNDWATER ANALYTICAL RESULTS SUMMARY
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L)[1]	MW-5A										MW-6A							
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/1/2014		5/31/2007		2/11/2010		3/25/2010		12/17/2012	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		1	U	NS		0.2	U	ND		NS		NS		NS	
Acetone	50 (GV)	ND		NS		5	U	NS		1	U	ND		NS		NS		NS	
Chloroform	7	ND		NS		1	U	NS		0.2	U	ND		NS		NS		NS	
cis-1,2-Dichloroethene	5	**530**		NS		4.6		NS		0.94	J	**160**		NS		NS		NS	
Methylene Chloride	5	**10**		NS		1	U	NS		0.2	U	**11**		NS		NS		NS	
Naphthalene	10	ND		NS		NA		NS		NA		ND		NS		NS		NS	
o-Xylene	5	ND		NS		1	U	NS		0.2	U	ND		NS		NS		NS	
trans-1,2-Dichloroethene	5	**14**		NS		1	U	NS		0.2	U	ND		NS		NS		NS	
Trichloroethene	5	**88**		NS		1.2		NS		1.1		**140**		NS		NS		NS	
Vinyl Chloride	2	**160**		NS		0.81	J	NS		0.2	U	**9.4**		NS		NS		NS	
TOTAL VOCs		802				6.61				2.04		320.4							

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L)[1]	MW-7A										MW-8							
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/1/2014		5/31/2007		2/11/2010		3/25/2010		12/17/2012	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		NS		NS		NS		NS		1	U	NS	
Acetone	50 (GV)	ND		NS		NS		NS		NS		NS		NS		5	U	NS	
Chloroform	7	ND		NS		NS		NS		NS		NS		NS		1	U	NS	
cis-1,2-Dichloroethene	5	**17**		NS		NS		NS		NS		NS		NS		1	U	NS	
Methylene Chloride	5	**11**		NS		NS		NS		NS		NS		NS		1	U	NS	
Naphthalene	10	**42**		NS		NS		NS		NS		NS		NS		NA		NS	
o-Xylene	5	ND		NS		NS		NS		NS		NS		NS		1	U	NS	
trans-1,2-Dichloroethene	5	ND		NS		NS		NS		NS		NS		NS		1	U	NS	
Trichloroethene	5	**7.2**		NS		NS		NS		NS		NS		NS		1	U	NS	
Vinyl Chloride	2	ND		NS		NS		NS		NS		NS		NS		1	U	NS	
TOTAL VOCs		35.2														0			

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
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U indicates that the compound was analyzed for but not detected
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NS denotes "Not Sampled"
BMW-FD-2 is a duplicate of BMW-16A
MW-10A field duplicate is GWFD01.
FDGW032510 is a duplicate of MW-2A
5/1/2014 (FD) is a duplicate of MW-15A

TABLE 1.3.1-4: GROUNDWATER ANALYTICAL RESULTS SUMMARY
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	MW-8A												MW-9A									
		5/31/2007		2/11/2010		3/25/2010		12/17/2012				5/2/2014		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/2/2014	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier			Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		1	U	NS				0.2	U	ND		NS		NS		NS		NS	
Acetone	50 (GV)	ND		NS		5	U	NS				1	U	ND		NS		NS		NS		NS	
Chloroform	7	ND		NS		1	U	NS				0.2	U	ND		NS		NS		NS		NS	
cis-1,2-Dichloroethene	5	**12**		NS		1	U	NS				0.93	J	ND		NS		NS		NS		NS	
Methylene Chloride	5	**11**		NS		1	U	NS				0.2	U	**10**		NS		NS		NS		NS	
Naphthalene	10	ND		NS		NA		NS				NA		ND		NS		NS		NS		NS	
o-Xylene	5	ND		NS		1	U	NS				0.2	U	ND		NS		NS		NS		NS	
trans-1,2-Dichloroethene	5	ND		NS		1	U	NS				0.2	U	ND		NS		NS		NS		NS	
Trichloroethene	5	ND		NS		1	U	NS				0.2	U	ND		NS		NS		NS		NS	
Vinyl Chloride	2	ND		NS		1	U	NS				0.2	U	ND		NS		NS		NS		NS	
TOTAL VOCs		23				0						0.93		10									

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	MW-10A												BMW-11A									
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		12/14/2012 (FD)		5/2/2014		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/2/2014	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		10	U	1.2		2.5		NS		1	U	NS		NS		0.2	U
Acetone	50 (GV)	ND		NS		NS		100	U	5	U	1	U	NS		5	U	NS		NS		1	U
Chloroform	7	ND		NS		NS		50	U	2.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
cis-1,2-Dichloroethene	5	**1,300**		NS		NS		**650**		**600**		**1,800**	D	NS		1	U	NS		NS		0.81	J
Methylene Chloride	5	**9.2**		NS		NS		50	U	2.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
Naphthalene	10	ND		NS		NS		50	U	2.5	U	NA		NS		NA		NS		NS		NA	
o-Xylene	5	ND		NS		NS		50	U	2.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
trans-1,2-Dichloroethene	5	**8.9**		NS		NS		50	U	**5.7**		**6.2**		NS		1	U	NS		NS		0.2	U
Trichloroethene	5	**10**		NS		NS		10	U	2.4		**16.3**		NS		1	U	NS		NS		0.2	U
Vinyl Chloride	2	**440**		NS		NS		**120**		**140**		**400**	D	NS		1	U	NS		NS		0.2	U
TOTAL VOCs		1,768.1						770		749.3		1,825				0						0.81	

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
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FDGW032510 is a duplicate of MW-2A
5/1/2014 (FD) is a duplicate of MW-15A

TABLE 1.3.1-4: GROUNDWATER ANALYTICAL RESULTS SUMMARY
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L)[1]	BMW-12A										BMW-13A									
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/2/2014		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/2/2014	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U	NS		NS		0.2	U	NS		1	U	NS		NS		0.92	J
Acetone	50 (GV)	NS		15	U	NS		NS		1	U	NS		5	U	NS		NS		1	U
Chloroform	7	NS		1	U	NS		NS		0.2	U	NS		1	U	NS		NS		0.2	U
cis-1,2-Dichloroethene	5	NS		4.8		NS		NS		1.6		NS		**530**		NS		NS		**630**	D
Methylene Chloride	5	NS		1	U	NS		NS		0.2	U	NS		1	U	NS		NS		0.2	U
Naphthalene	10	NS		NA		NS		NS		NA		NS		NA		NS		NS		NA	
o-Xylene	5	NS		1	U	NS		NS		0.2	U	NS		1	U	NS		NS		0.2	U
trans-1,2-Dichloroethene	5	NS		1	U	NS		NS		0.2	U	NS		2.1		NS		NS		1.3	
Trichloroethene	5	NS		1	U	NS		NS		0.2	U	NS		1	U	NS		NS		0.2	U
Vinyl Chloride	2	NS		**6.7**		NS		NS		**2.3**		NS		**130**		NS		NS		**170**	
TOTAL VOCs				11.5						3.9				662.1						802.22	

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L)[1]	BMW-14A										BMW-15A											
		5/31/2007		2/10/2010		3/25/2010		12/17/2012		5/2/2014		5/31/2007		2/10/2010		3/25/2010		12/14/2012		5/1/2014		5/1/2014 (FD)	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1.5		NS		2.5	U	1.4		NS		1	U	NS		NS		1.6		1.5	
Acetone	50 (GV)	NS		5	UJ	NS		25	U	1	U	NS		5	U	NS		NS		1	U	1	U
Chloroform	7	NS		1.2		NS		12	U	0.2	U	NS		0.88	J	NS		NS		0.2	U	0.2	U
cis-1,2-Dichloroethene	5	NS		**520**		NS		**350**		**460**	D	NS		**150**		NS		NS		**620**	D	**580**	D
Methylene Chloride	5	NS		1	U	NS		12	U	0.2	U	NS		1	U	NS		NS		0.2	U	0.2	U
Naphthalene	10	NS		NA		NS		12	U	NA		NS		NA		NS		NS		NA		NA	
o-Xylene	5	NS		1	U	NS		12	U	0.2	U	NS		1	U	NS		NS		0.2	U	0.2	U
trans-1,2-Dichloroethene	5	NS		**13**		NS		**5.1**	J	**7.8**		NS		**10**		NS		NS		**24.5**		**23.2**	
Trichloroethene	5	NS		**17**		NS		2.5	U	0.81	J	NS		**35**		NS		NS		**9.1**		**9**	
Vinyl Chloride	2	NS		**13**		NS		5	U	**10.8**		NS		**82**		NS		NS		**220**		**200**	D
TOTAL VOCs				565.7				355.1		480.81				277.88						875.2		813.7	

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
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5/1/2014 (FD) is a duplicate of MW-15A

TABLE 1.3.1-4: GROUNDWATER ANALYTICAL RESULTS SUMMARY
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L)[1]	BMW-16A												BMW-17A									
		5/31/2007		2/11/2010		2/11/2010 (FD)		3/25/2010		12/14/2012		5/2/2014		5/31/2007		2/10/2010		3/25/2010		12/14/2012		5/2/2014	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U	1	U	1	U	0.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
Acetone	50 (GV)	NS		5	U	5	UJ	5	U	5	U	1	U	NS		5	U	NS		NS		1	U
Chloroform	7	NS		1	U	1	U	1	U	2.5	U	0.2	U	NS		0.71	J	NS		NS		0.2	U
cis-1,2-Dichloroethene	5	NS		4.2		3.7		1.2		2.5	U	0.2	U	NS		1.3		NS		NS		1.1	
Methylene Chloride	5	NS		1	U	1	U	1	U	2.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
Naphthalene	10	NS		NA		NA		NA		2.5	U	NA		NS		NA		NS		NS		NA	
o-Xylene	5	NS		1	U	1	U	1	U	2.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
trans-1,2-Dichloroethene	5	NS		1	U	1	U	1	U	2.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
Trichloroethene	5	NS		1.9		2		1	U	0.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
Vinyl Chloride	2	NS		**2.1**		1.8		**2.1**		1	U	0.2	U	NS		**65**		NS		NS		**22.1**	
TOTAL VOCs				8.2		7.5		3.3		0		0				67.01						23.2	

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L)[1]	BMW-18A												BMW-19A									
		5/31/2007		2/10/2010				3/25/2010		12/14/2012		5/2/2014		5/31/2007		2/10/2010		3/25/2010		12/17/2012		5/2/2014	
		Result	Qualifier	Result	Qualifier			Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U			NS		NS		0.2	U	NS		**7.4**		NS		25	U	4	U
Acetone	50 (GV)	NS		5	U			NS		NS		1	U	NS		5	UJ	NS		250	U	20	U
Chloroform	7	NS		1	U			NS		NS		0.2	U	NS		0.94	J	NS		120	U	4	U
cis-1,2-Dichloroethene	5	NS		1.6				NS		NS		3.2		NS		**6,600**		NS		**2,700**		**5,200**	D
Methylene Chloride	5	NS		1	U			NS		NS		0.2	U	NS		1	U	NS		120	U	4	U
Naphthalene	10	NS		NA				NS		NS		NS		NS		NA		NS		120	U	NA	
o-Xylene	5	NS		1	U			NS		NS		0.2	U	NS		0.55	J	NS		120	U	4	U
trans-1,2-Dichloroethene	5	NS		1	U			NS		NS		0.2	U	NS		**35**		NS		120	U	10	J
Trichloroethene	5	NS		1	U			NS		NS		0.2	U	NS		**5.5**		NS		25	U	4	U
Vinyl Chloride	2	NS		1	U			NS		NS		0.42		NS		**1,800**		NS		**820**		1,400	
TOTAL VOCs				1.6								3.62				8,449				3,520		6,600	

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
Concentrations expressed in ug/l or parts per billion (ppb)
U indicates that the compound was analyzed for but not detected
J indicates an estimated value
GV denotes a Guidance Value
ND denotes "Non-Detect"
NA denotes "Not Analyzed"
NS denotes "Not Sampled"
BMW-FD-2 is a duplicate of BMW-16A
MW-10A field duplicate is GWFD01.
FDGW032510 is a duplicate of MW-2A
5/1/2014 (FD) is a duplicate of MW-15A

APPENDIX B

TABLE 3.9-1: ALTERNATIVES ANALYSIS COST ESTIMATE

TABLE 3.9-1: ALTERNATIVES ANALYSIS COST ESTIMATES
Old Champlain Mill BCP Site
C.T. Male Project No.: 06.6448

Bid Item #		Work Item	Units	Est. Units		Unit Rate		Estimated Fee
Alternative #1		**Excavation and Disposal of Impacted Soil and Backfill with Clean Imported Fill, Groundwater Remediation and Short-Term Institutional Controls**						
		Short-Term Institutional Control						
	1	Legal and Filing Fees	LS	1	$	5,000.00	$	5,000.00
		Site Preparation						
	2	Mobilization/Demobilization	LS	1	$	15,000.00	$	15,000.00
	3	Site Preparation and Decon Pad	LS	1	$	5,000.00	$	5,000.00
	4	Silt Fencing (Site Perimeter and Wetlands/Waterways Perimeter)	LF	8,000	$	0.95	$	7,600.00
	5	Hay Bales (Perimeter of Wetlands, Wood Creek, Champlain Canal)	LF	4,100	$	7.85	$	32,185.00
	6	Site Clear and Grub	ACRE	8.27	$	6,075.00	$	50,240.25
	7	Dust Suppression	MONTH	6	$	7,250.00	$	43,500.00
	8	Abandon Monitoring Wells in Excavation Footprint Except For MW-2A, MW-3A, BMW-13A and BMW-15A	EACH	15	$	1,000.00	$	15,000.00
		Concrete/Asphalt Demolition and Disposal						
	9	Excavator, 2.0 CY, Hydraulic Hammer	DAY	15	$	1,585.00	$	23,775.00
	10	Excavator, 2.0 CY	DAY	15	$	1,175.00	$	17,625.00
	11	Transportation and Off-site Disposal of Concrete	CY	3,830	$	11.00	$	42,130.00
	12	Transportation and Off-site Disposal of Asphalt	LS	1	$	5,000.00	$	5,000.00
		Impacted Soil Excavation and Site Restoration						
	13	Excavate, Load, Transport and Dispose of Contaminated Soil at Permitted Facility (assume non-hazardous). Protect Monitoring Wells MW-2A, MW-3A, BMW-13A and BMW-15A	TON	148,430	$	100.00	$	14,843,000.00
	14	Provide dewatering system, including pumps, frac tanks and water treatment systems	LS	3	$	15,000.00	$	45,000.00
	15	Operate treatment system to treat contaminanted groundwater and discharge treated water to public water treatment system	DAY	130	$	600.00	$	78,000.00
	16	Supply and place general fill to increase site grade to 4" below grade (to replace the impacted soil removed)	CY	57,626	$	15.00	$	864,390.00
	17	Supply, place and grade 4" of topsoil over general fill in Soil Excavation	CY	29,686	$	30.00	$	890,580.00
	18	Apply hydro seed to the topsoil and protect until establishment of vegetative cover acceptable to Engineer	MSF	360.2	$	100.00	$	36,020.00
		Groundwater Remediation						
	19	Injection of HRC into the Groundwater Aquifer	POINTS	176	$	1,000.00	$	176,000.00
						Subtotal	***$***	***17,195,045.25***
	20	Engineering (10%)					$	171,950.00
	21	Wetland Mitigation	LS	1	$	15,000.00	$	15,000.00
	22	Site Survey (topography)	LS	1	$	6,500.00	$	6,500.00
	23	Construction Management (Field Oversight and Air Monitoring)	DAY	130	$	2,400.00	$	312,000.00
	24	Post-Excavation Soil Analytical	EACH	645	$	300.00	$	193,500.00
	25	Data Validation	LS	1	$	22,575.00	$	22,575.00
						Total Capital Costs	***$***	***17,916,570.25***
		Long Term Costs						
	25a	Annual GWr Samp and Analyses (Years 1 - 5) (Present Value*)						
	b	Analytical for 4 Groundwater Samples for TCL VOCs	EACH	5	$	1,000.00	$	4,670.00
	c	Field Work	EACH	5	$	1,000.00	$	4,670.00
	d	Data Validation	EACH	5	$	400.00	$	1,868.00
	e	Equipment	EACH	5	$	500.00	$	2,335.00
	f	Disposal of drummed purge water	EACH	5	$	300.00	$	1,401.00
	g	Reporting	EACH	5	$	1,000.00	$	4,670.00
		Subtotal - Long Term Costs (Annual & Present Value*)			***$***	***4,200.00***	***$***	***19,614.00***
						Total	***$***	***17,936,184.25***
Alternative #2		**Emplacement of Cover Material with Institutional Controls, In-Situ Groundwater Remediation, Site Management Plan and Long-Term Monitoring**						
		Institutional Controls						
	1	Legal and Filing Fees	LS	1	$	5,000.00	$	5,000.00
		Site Preparation						
	2	Mobilization/Demobilization	LS	1	$	10,000.00	$	10,000.00
	3	Site Preparation, Fencing and Decon Pad	LS	1	$	5,000.00	$	5,000.00
	4	Silt Fencing (Site Perimeter and Wetlands Perimeter)	LF	8,000	$	0.95	$	7,600.00
	5	Hay Bales (Wetlands, Wood Creek, Champlain Canal)	LF	4,100	$	7.85	$	32,185.00
	6	Site Clear and Grub	ACRE	7	$	6,075.00	$	42,525.00
	7	Dust Suppression	MONTH	1.25	$	7,250.00	$	9,062.50
	8	Abandon Monitoring Wells in Soil Cover Footprint Except MW-2A, MW-3A, BMW-13A, BMW-15A, BMW-19	EACH	14	$	1,000.00	$	14,000.00
		Concrete/Asphalt Demolition and Disposal						
	9	Excavator, 2.0 CY, Hydraulic Hammer	DAY	15	$	1,585.00	$	23,775.00
	10	Excavator, 2.0 CY	DAY	15	$	1,175.00	$	17,625.00
	11	Transportation and Off-site Disposal of Concrete	CY	3,830	$	11.00	$	42,130.00
	12	Transportation and Off-site Disposal of Asphalt	LS	1	$	5,000.00	$	5,000.00
		Soil Cover System						
	13	Supply and install a demarcation layer beneath clean imported fill and soil cover	MSF	300.2	$	250.00	$	75,050.00
	14	Supply and place general fill to increase site grade to 4" below finished grade	CY	7,338	$	15.00	$	110,070.00
	15	Supply, place and grade 4" of topsoil over general fill	CY	3,670	$	30.00	$	110,100.00
	16	Apply hydro seed to the soil cover and protect until establishment of vegetative cover acceptable to Engineer	MSF	300.2	$	100.00	$	30,020.00
		Groundwater Remediation						
	17	Injection of HRC into the Groundwater Aquifer	POINTS	220	$	1,000.00	$	220,000.00
						Subtotal	***$***	***759,142.50***
	18	Engineering (10%)					$	75,914.00
	19	Site Management Plan	LS	1	$	15,000.00	$	15,000.00
	20	Site Survey (topography pre cover and post cover)	LS	1	$	5,000.00	$	5,000.00
	21	Field Oversight and Air Monitoring	DAY	25	$	2,400.00	$	60,000.00
						Total Capital Costs	***$***	***915,056.50***
		Long Term Costs						
	22a	Site Management Plan Requirements (30 years)						
	b	Periodic Site Inspection and Certification by an Environmental Professional (Present Value)	EACH	30	$	1,200.00	$	23,604.00
	c	Periodic O&M such as Cover maintenance and Repair (Present Value)	EACH	30	$	3,000.00	$	59,010.00
	d	Miscellaneous Site Work (2 days annually- Present Value)	EACH	30	$	1,200.00	$	23,604.00
	23a	Biannual Groundwater Sampling and Analyses (Years 1 - 5) (Present						
	b	Analytical for 10 Groundwater Samples for TCL VOCs	EACH	10	$	1,000.00	$	9,330.00
	c	Field Work	EACH	10	$	1,000.00	$	9,330.00
	d	Data Validation	EACH	10	$	400.00	$	3,732.00
	e	Equipment	EACH	10	$	500.00	$	4,665.00
	f	Disposal of drummed purge water	EACH	10	$	300.00	$	2,799.00
	g	Reporting	EACH	10	$	1,000.00	$	9,330.00
		Subtotal - Long Term Costs (Annual & Present Value*)			***$***	***9,600.00***	***$***	***145,404.00***
						Total	***$***	***1,060,460.50***

TABLE 3.9-1: ALTERNATIVES ANALYSIS COST ESTIMATES
Old Champlain Mill BCP Site
C.T. Male Project No.: 06.6448

Alternative #3 Emplacement of Cover Material with Institutional Controls, Short Term Ex-Situ Groundwater Remediation, Site Management Plan and Long-Term Monitoring

	Institutional Controls						
1	Legal and Filing Fees	LS	1	$	5,000.00	$	5,000.00
	Site Preparation						
2	Mobilization/Demobilization	LS	1	$	10,000.00	$	10,000.00
3	Site Preparation, Fencing and Decon Pad	LS	1	$	5,000.00	$	5,000.00
4	Silt Fencing (Site Perimeter and Wetlands Perimeter)	LF	8,000	$	0.95	$	7,600.00
5	Hay Bales (Wetlands, Wood Creek, Champlain Canal)	LF	4,100	$	7.85	$	32,185.00
6	Site Clear and Grub	ACRE	7	$	6,075.00	$	42,525.00
7	Dust Suppression	MONTH	1.25	$	7,250.00	$	9,062.50
8	Abandon Monitoring Wells Not To Be Used	EACH	7	$	1,000.00	$	7,000.00
	Concrete/Asphalt Demolition and Disposal						
9	Excavator, 2.0 CY, Hydraulic Hammer	DAY	15	$	1,585.00	$	23,775.00
10	Excavator, 2.0 CY	DAY	15	$	1,175.00	$	17,625.00
11	Transportation and Off-site Disposal of Concrete	CY	3,830	$	11.00	$	42,130.00
12	Transportation and Off-site Disposal of Asphalt	LS	1	$	5,000.00	$	5,000.00
	Soil Cover System						
13	Supply and install a demarcation layer beneath clean imported fill and soil cover	MSF	300.2	$	250.00	$	75,050.00
14	Supply and place general fill to increase site grade to 4" below finished grade	CY	7,338	$	15.00	$	110,070.00
15	Supply, place and grade 4" of topsoil over general fill	CY	3,670	$	30.00	$	110,100.00
16	Apply hydro seed to the soil cover and protect until establishment of vegetative cover acceptable to Engineer	MSF	300.2	$	100.00	$	30,020.00
	Groundwater Remediation						
17	Remedial Action Work Plan	LS	1	$	8,500.00	$	8,500.00
					Subtotal	***$***	***540,642.50***
18	Engineering (10%)					$	55,000.00
19	Site Management Plan	LS	1	$	12,000.00	$	12,000.00
20	Site Survey (topography pre cover and post cover)	LS	1	$	10,000.00	$	10,000.00
21	Field Oversight and Air Monitoring	DAY	15	$	2,400.00	$	36,000.00
				Total Capital Costs		***$***	***653,642.50***
	Long Term Costs						
22a	Site Management Plan Requirements (30 years)						
b	Periodic Site Inspection and Certification by an Environmental Professional (Present Value)	EACH	30	$	1,200.00	$	23,604.00
c	Periodic O&M such as Cover maintenance and Repair (Present Value)	EACH	30	$	3,000.00	$	59,010.00
d	Miscellaneous Site Work (2 days annually- Present Value)	EACH	30	$	1,200.00	$	23,604.00
23a	Annual GW Sampling and Analyses (Years 1 - 5) (Present Value)						
b	Analytical for 12 Groundwater Samples for TCL VOCs	EACH	5	$	1,200.00	$	5,604.00
c	Field Work	EACH	5	$	1,000.00	$	4,670.00
d	Data Validation	EACH	5	$	400.00	$	1,868.00
e	Equipment	EACH	5	$	500.00	$	2,335.00
f	Disposal of drummed purge water	EACH	5	$	300.00	$	1,401.00
g	Reporting	EACH	5	$	1,000.00	$	4,670.00
	Subtotal - Long Term Costs (Annual & Present Value*)			***$***	***9,800.00***	***$***	***126,766.00***
					Total	***$***	***780,408.50***

* Present value is amortized based on an annual rate of return of 3%

EXHIBIT 1

December 2012 - Groundwater Sampling Event, (2/6/13)

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscape Architecture, P.C.

50 Century Hill Drive, Latham, NY 12110
518.786.7400 FAX 518.786.7299 ctmale@ctmale.com

February 6, 2013

Ms. Alicia Thorne, P.E.
NYS Department of Environmental Conservation
Division of Environmental Remediation
232 Golf Course Road
P.O. Box 220
Warrensburg, New York 12885

RE: Supplemental Groundwater Sampling Event
Old Champlain Mill BCP Site
BCP Site No. C558036

Dear Alicia:

As discussed with you in December 2012, C.T. Male Associates has conducted a supplemental groundwater sampling event of select groundwater monitoring wells within the Old Champlain Mill BCP Site to provide an update to groundwater contamination conditions prior to submitting a revised, proposed Alternatives Analysis (AA) report.

A summary of the December 2012 analytical results along with those from previous sampling events are presented in the attached table. A groundwater contour map for the water levels collected on December 16, 2012 is attached. Also attached is a site map depicting the groundwater contaminant plume as it existed on the dates sampling was performed in 2007, 2010 and 2012.

As shown in the attached table, the concentrations of chlorinated volatile organic compounds (CVOCs) found in December 2012 have decreased since the monitoring wells were sampled in 2010 and 2007. As shown in contaminant plume map, the aerial extent and severity of the plume has also diminished.

In addition to sampling select monitoring wells in December 2012 for CVOCs, other water quality parameters were analyzed to determine if natural attenuation processes are in play. Based on an evaluation by Hatch, Mott, McDonald of the analytical results collected to date, it is clear that natural attenuation, through anaerobic biodegradation, has and continues to actively occur within the site. We believe that this finding must be

taken into account when considering remedial alternatives in addition to those we previously presented to you.

Given the above, we would like to meet with you and Russell Huyck prior to preparing a revised Alterative Analysis Report. At this meeting we will present our findings, the evidence supporting active anaerobic biodegradation at the site, as well as to reach conceptual agreement on a mutually acceptable remedial alternative for site. Since the client representatives will be travelling from New Jersey, we request that the meeting be held at the Central Office in Albany. Also, since NYSDEC Central Office staff (i.e. Jim Harrington's section) will be involved in final selection of the remedial alternative, we believe it is more than appropriate for someone from the Division of Environmental Remediation attend the meeting. Finally, please note that the clients' environmental attorney, Gary Bowitch, will be attending the meeting as well.

The dates of February 26th or 28th (preferably after lunch) work well for our team. Let me know if the above meeting dates work for you and if not, please provide alternative dates that I can share with our team.

If you have any questions, please contact me at your convenience. We look forward to meeting with you and having a fruitful discussion about the appropriate remedy for this site.

Respectfully submitted,
C.T. MALE ASSOCIATES



Kirk Moline
Managing Geologist

Att.: Data Summary Table
12/16/12 Groundwater Contour Map
Composite of Groundwater Isoconcentration Contours for 2007, 2010 and 2012

c: Poultney Street Partners
Gary Bowitch, Esq.
Hatch, Mott, McDonald

TABLE XX
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	MW-1A								MW-2A									
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/31/2007		2/11/2010		3/25/2010		3/25/2010 (FD)		12/17/2012	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		NS		**8.4**		NS		3.2		3.3		1.7	J
Acetone	50 (GV)	ND		NS		NS		NS		ND		NS		4.2	J	5	UJ	25	U
Chloroform	7	ND		NS		NS		NS		ND		NS		1	U	1	U	12	U
cis-1,2-Dichloroethene	5	**160**		NS		NS		NS		**7,500**		NS		**580**		**610**		**310**	
Methylene Chloride	5	**9.7**		NS		NS		NS		**9.3**		NS		1	U	1	U	12	U
Naphthalene	10	ND		NS		NS		NS		ND		NS		NA		NA		12	U
o-Xylene	5	ND		NS		NS		NS		ND		NS		1	U	1	U	12	U
trans-1,2-Dichloroethene	5	ND		NS		NS		NS		**47**		NS		3.8		4.1		12	U
Trichloroethene	5	ND		NS		NS		NS		**3,300**		NS		**69**		**67**		**190**	
Vinyl Chloride	2	**87**		NS		NS		NS		**210**		NS		**23**		**24**		**9.7**	
TOTAL VOCs		256.7								11,074.7				683.2		708.4		511.4	

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	MW-3A								MW-4A							
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/31/2007		2/11/2010		3/25/2010		12/14/2012	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		1.7		0.5	U	ND		NS		1	U	NS	
Acetone	50 (GV)	ND		NS		5	U	5	U	ND		NS		5	U	NS	
Chloroform	7	ND		NS		1	U	2.5	U	ND		NS		1	U	NS	
cis-1,2-Dichloroethene	5	**15**		NS		**1,500**		**6.7**		**13**		NS		**6**		NS	
Methylene Chloride	5	ND		NS		1	U	2.5	U	ND		NS		1	U	NS	
Naphthalene	10	ND		NS		NA		2.5	U	ND		NS		NA		NS	
o-Xylene	5	ND		NS		1	U	2.5	U	ND		NS		1	U	NS	
trans-1,2-Dichloroethene	5	ND		NS		**5.2**		2.5	U	ND		NS		1	U	NS	
Trichloroethene	5	ND		NS		1	U	0.5	U	ND		NS		1.2		NS	
Vinyl Chloride	2	ND		NS		**330**		1.3		ND		NS		1	U	NS	
TOTAL VOCs		15				1,836.9		8		13				7.2			

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
Concentrations expressed in ug/l or parts per billion (ppb)
U indicates that the compound was analyzed for but not detected
J indicates an estimated value
GV denotes a Guidance Value
ND denotes "Non-Detect"
NA denotes "Not Analyzed"
NS denotes "Not Sampled"
2/11/2010 (FD) is a duplicate of BMW-16A
12/14/2012 (FD) is a duplicate of MW-10A
3/25/2010 (FD) is a duplicate of MW-2A

TABLE XX
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	MW-5A								MW-6A							
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/31/2007		2/11/2010		3/25/2010		12/17/2012	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		1	U	NS		ND		NS		NS		NS	
Acetone	50 (GV)	ND		NS		5	U	NS		ND		NS		NS		NS	
Chloroform	7	ND		NS		1	U	NS		ND		NS		NS		NS	
cis-1,2-Dichloroethene	5	**530**		NS		4.6		NS		**160**		NS		NS		NS	
Methylene Chloride	5	**10**		NS		1	U	NS		**11**		NS		NS		NS	
Naphthalene	10	ND		NS		NA		NS		ND		NS		NS		NS	
o-Xylene	5	ND		NS		1	U	NS		ND		NS		NS		NS	
trans-1,2-Dichloroethene	5	**14**		NS		1	U	NS		ND		NS		NS		NS	
Trichloroethene	5	**88**		NS		1.2		NS		**140**		NS		NS		NS	
Vinyl Chloride	2	**160**		NS		0.81	J	NS		**9.4**		NS		NS		NS	
TOTAL VOCs		802				6.61				320.4							

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	MW-7A								MW-8							
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/31/2007		2/11/2010		3/25/2010		12/17/2012	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		NS		NS		NS		1	U	NS	
Acetone	50 (GV)	ND		NS		NS		NS		NS		NS		5	U	NS	
Chloroform	7	ND		NS		NS		NS		NS		NS		1	U	NS	
cis-1,2-Dichloroethene	5	**17**		NS		NS		NS		NS		NS		1	U	NS	
Methylene Chloride	5	**11**		NS		NS		NS		NS		NS		1	U	NS	
Naphthalene	10	**42**		NS		NS		NS		NS		NS		NA		NS	
o-Xylene	5	ND		NS		NS		NS		NS		NS		1	U	NS	
trans-1,2-Dichloroethene	5	ND		NS		NS		NS		NS		NS		1	U	NS	
Trichloroethene	5	**7.2**		NS		NS		NS		NS		NS		1	U	NS	
Vinyl Chloride	2	ND		NS		NS		NS		NS		NS		1	U	NS	
TOTAL VOCs		35.2												0			

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
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FDGW032510 is a duplicate of MW-2A
MW-10A field duplicate is GWFD01.

TABLE XX
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	MW-8A								MW-9A							
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/31/2007		2/11/2010		3/25/2010		12/17/2012	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		1	U	NS		ND		NS		NS		NS	
Acetone	50 (GV)	ND		NS		5	U	NS		ND		NS		NS		NS	
Chloroform	7	ND		NS		1	U	NS		ND		NS		NS		NS	
cis-1,2-Dichloroethene	5	**12**		NS		1	U	NS		ND		NS		NS		NS	
Methylene Chloride	5	**11**		NS		1	U	NS		**10**		NS		NS		NS	
Naphthalene	10	ND		NS		NA		NS		ND		NS		NS		NS	
o-Xylene	5	ND		NS		1	U	NS		ND		NS		NS		NS	
trans-1,2-Dichloroethene	5	ND		NS		1	U	NS		ND		NS		NS		NS	
Trichloroethene	5	ND		NS		1	U	NS		ND		NS		NS		NS	
Vinyl Chloride	2	ND		NS		1	U	NS		ND		NS		NS		NS	
TOTAL VOCs		23				0				10							

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	MW-10A										BMW-11A							
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		12/14/2012 (FD)		5/31/2007		2/11/2010		3/25/2010		12/14/2012	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		10	U	1.2		NS		1	U	NS		NS	
Acetone	50 (GV)	ND		NS		NS		100	U	5	U	NS		5	U	NS		NS	
Chloroform	7	ND		NS		NS		50	U	2.5	U	NS		1	U	NS		NS	
cis-1,2-Dichloroethene	5	**1,300**		NS		NS		**650**		**600**		NS		1	U	NS		NS	
Methylene Chloride	5	**9.2**		NS		NS		50	U	2.5	U	NS		1	U	NS		NS	
Naphthalene	10	ND		NS		NS		50	U	2.5	U	NS		NA		NS		NS	
o-Xylene	5	ND		NS		NS		50	U	2.5	U	NS		1	U	NS		NS	
trans-1,2-Dichloroethene	5	**8.9**		NS		NS		50	U	**5.7**		NS		1	U	NS		NS	
Trichloroethene	5	**10**		NS		NS		10	U	2.4		NS		1	U	NS		NS	
Vinyl Chloride	2	**440**		NS		NS		**120**		**140**		NS		1	U	NS		NS	
TOTAL VOCs		1,768.1						770		749.3				0					

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
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FDGW032510 is a duplicate of MW-2A
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TABLE XX
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	BMW-12A								BMW-13A							
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/31/2007		2/11/2010		3/25/2010		12/14/2012	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U	NS		NS		NS		1	U	NS		NS	
Acetone	50 (GV)	NS		15	U	NS		NS		NS		5	U	NS		NS	
Chloroform	7	NS		1	U	NS		NS		NS		1	U	NS		NS	
cis-1,2-Dichloroethene	5	NS		4.8		NS		NS		NS		**530**		NS		NS	
Methylene Chloride	5	NS		1	U	NS		NS		NS		1	U	NS		NS	
Naphthalene	10	NS		NA		NS		NS		NS		NA		NS		NS	
o-Xylene	5	NS		1	U	NS		NS		NS		1	U	NS		NS	
trans-1,2-Dichloroethene	5	NS		1	U	NS		NS		NS		2.1		NS		NS	
Trichloroethene	5	NS		1	U	NS		NS		NS		1	U	NS		NS	
Vinyl Chloride	2	NS		**6.7**		NS		NS		NS		**130**		NS		NS	
TOTAL VOCs				11.5								662.1					

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	BMW-14A								BMW-15A							
		5/31/2007		2/10/2010		3/25/2010		12/17/2012		5/31/2007		2/10/2010		3/25/2010		12/14/2012	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1.5		NS		2.5	U	NS		1	U	NS		NS	
Acetone	50 (GV)	NS		5	UJ	NS		25	U	NS		5	U	NS		NS	
Chloroform	7	NS		1.2		NS		12	U	NS		0.88	J	NS		NS	
cis-1,2-Dichloroethene	5	NS		**520**		NS		**350**		NS		**150**		NS		NS	
Methylene Chloride	5	NS		1	U	NS		12	U	NS		1	U	NS		NS	
Naphthalene	10	NS		NA		NS		12	U	NS		NA		NS		NS	
o-Xylene	5	NS		1	U	NS		12	U	NS		1	U	NS		NS	
trans-1,2-Dichloroethene	5	NS		**13**		NS		**5.1**	J	NS		**10**		NS		NS	
Trichloroethene	5	NS		**17**		NS		2.5	U	NS		**35**		NS		NS	
Vinyl Chloride	2	NS		**13**		NS		5	U	NS		**82**		NS		NS	
TOTAL VOCs				565.7				355.1				277.88					

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
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TABLE XX
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	BMW-16A										BMW-17A							
		5/31/2007		2/11/2010		2/11/2010 (FD)		3/25/2010		12/14/2012		5/31/2007		2/10/2010		3/25/2010		12/14/2012	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U	1	U	1	U	0.5	U	NS		1	U	NS		NS	
Acetone	50 (GV)	NS		5	U	5	UJ	5	U	5	U	NS		5	U	NS		NS	
Chloroform	7	NS		1	U	1	U	1	U	2.5	U	NS		0.71	J	NS		NS	
cis-1,2-Dichloroethene	5	NS		4.2		3.7		1.2		2.5	U	NS		1.3		NS		NS	
Methylene Chloride	5	NS		1	U	1	U	1	U	2.5	U	NS		1	U	NS		NS	
Naphthalene	10	NS		NA		NA		NA		2.5	U	NS		NA		NS		NS	
o-Xylene	5	NS		1	U	1	U	1	U	2.5	U	NS		1	U	NS		NS	
trans-1,2-Dichloroethene	5	NS		1	U	1	U	1	U	2.5	U	NS		1	U	NS		NS	
Trichloroethene	5	NS		1.9		2		1	U	0.5	U	NS		1	U	NS		NS	
Vinyl Chloride	2	NS		**2.1**		1.8		**2.1**		1	U	NS		**65**		NS		NS	
TOTAL VOCs				8.2		7.5		3.3		0				67.01					

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	BMW-18A								BMW-19A							
		5/31/2007		2/10/2010		3/25/2010		12/14/2012		5/31/2007		2/10/2010		3/25/2010		12/17/2012	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U	NS		NS		NS		**7.4**		NS		25	U
Acetone	50 (GV)	NS		5	U	NS		NS		NS		5	UJ	NS		250	U
Chloroform	7	NS		1	U	NS		NS		NS		0.94	J	NS		120	U
cis-1,2-Dichloroethene	5	NS		1.6		NS		NS		NS		**6,600**		NS		**2,700**	
Methylene Chloride	5	NS		1	U	NS		NS		NS		1	U	NS		120	U
Naphthalene	10	NS		NA		NS		NS		NS		NA		NS		120	U
o-Xylene	5	NS		1	U	NS		NS		NS		0.55	J	NS		120	U
trans-1,2-Dichloroethene	5	NS		1	U	NS		NS		NS		**35**		NS		120	U
Trichloroethene	5	NS		1	U	NS		NS		NS		**5.5**		NS		25	U
Vinyl Chloride	2	NS		1	U	NS		NS		NS		**1,800**		NS		**820**	
TOTAL VOCs				1.6								8,449				3,520	

Qualifiers and Notes

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TABLE XX
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE[1]	UNITS	MW-2A 12/17/2012 Result	MW-2A 12/17/2012 Qualifier	MW-3A 12/17/2012 Result	MW-3A 12/17/2012 Qualifier	MW-10A 12/17/2012 Result	MW-10A 12/17/2012 Qualifier	GWFD01 12/17/2012 Result	GWFD01 12/17/2012 Qualifier	BMW-14A 12/17/2012 Result	BMW-14A 12/17/2012 Qualifier	BMW-16A 12/17/2012 Result	BMW-16A 12/17/2012 Qualifier	BMW-19A 12/17/2012 Result	BMW-19A 12/17/2012 Qualifier
DISSOLVED METALS																
Iron, Dissolved	300	ug/l	210		**3,000**		**4,600**		110		**540**		290		**2,300**	
GENERAL CHEMISTRY																
Alkalinity, Total	NS	mg CaCO3/L	200		250		184		186		230		232		240	
Chloride	250,000	ug/l	4,400		10,000		60,000		65,000		16,000		4,100		30,000	
Nitrogen, Nitrate	10,000	ug/l	90	J	90	J	157		174		100	U	137		90	J
Sulfate	250,000	ug/l	39,000		40,000		18,000		18,000		74,000		1,600	J	23,000	
Sulfide	50 (GV)	ug/l	100	U	100	U	100	U	100	U	100	U	100	U	100	U
TOTAL METALS																
Calcium, Total	NS	ug/l	78,000		68,000		58,000		58,000		84,000		60,000		68,000	
Iron, Total	300	ug/l	**7,000**		**9,000**		**8,400**		**8,900**		**1,600**		**3,200**		**12,000**	
Magnesium, Total	35,000	ug/l	10,000		24,000		20,000		20,000		22,000		14,000		14,000	
Manganese, Total	300	ug/l	**1,290**		**5,470**		**1,880**		**1,960**		**778**		**5,030**		**1,260**	
Potassium, Total	NS	ug/l	7,800		920	J	2,500	U	2,500	U	990	J	1,900	J	970	J
Sodium, Total	20,000	ug/l	11,000		**35,000**		**38,000**		**38,000**		**45,000**		16,000		**44,000**	

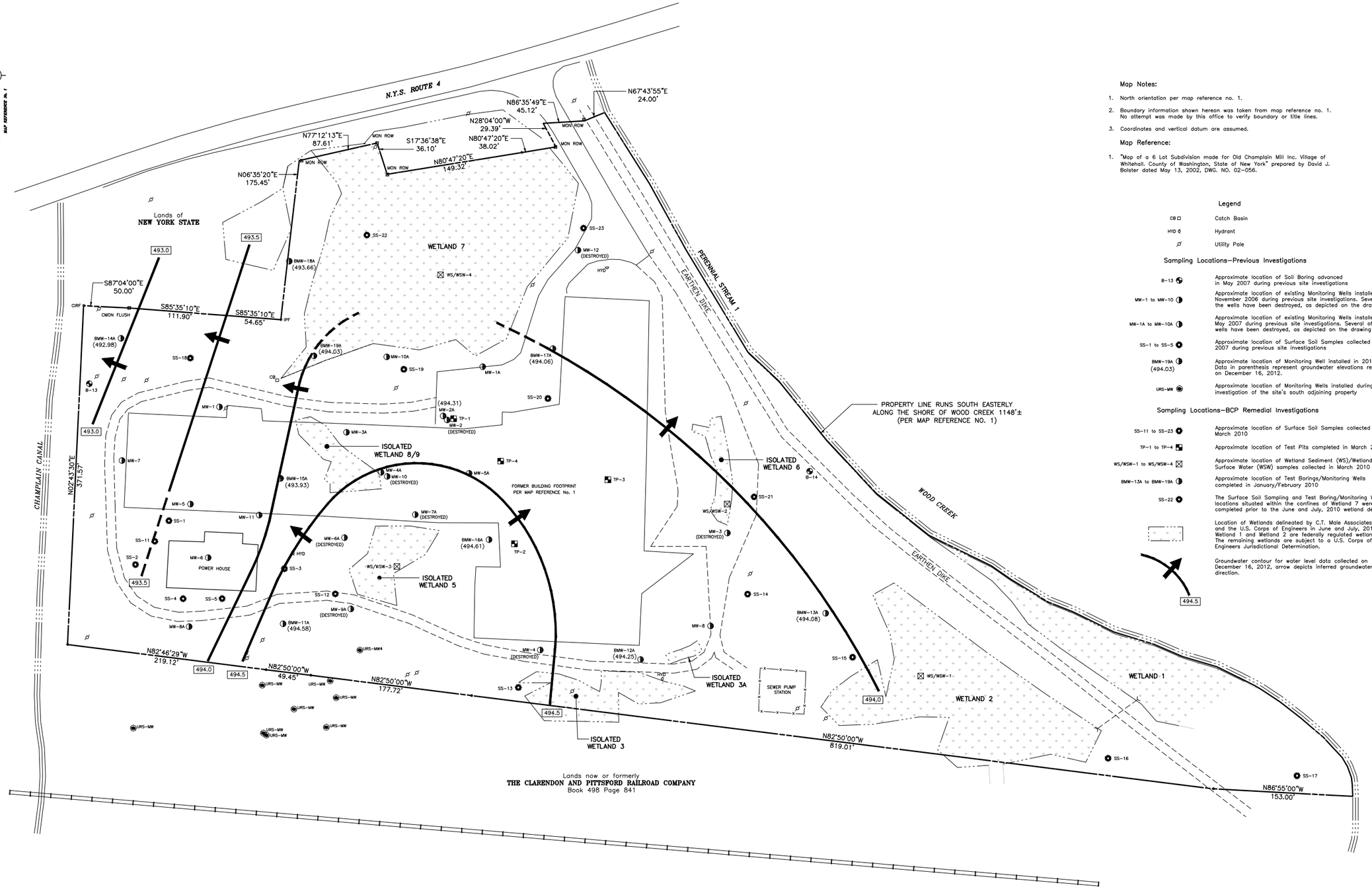
Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
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NS denotes "No Standard"
GWFD01 is a duplicate of MW-10A

XREFS: NONE

PROJECT NUMBER: 06.6448

CAD DWG. FILE NAME: FIGURE-X DWG 12-16-12.dwg



Map Notes:

1. North orientation per map reference no. 1.
2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
3. Coordinates and vertical datum are assumed.

Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall. County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

CB □	Catch Basin
HYD ⊄	Hydrant
⊄	Utility Pole

Sampling Locations–Previous Investigations

B-13	Approximate location of Soil Boring advanced in May 2007 during previous site investigations
MW-1 to MW-10	Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
MW-1A to MW-10A	Approximate location of existing Monitoring Wells installed in May 2007 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
SS-1 to SS-5	Approximate location of Surface Soil Samples collected in 2007 during previous site investigations
BMW-19A (494.03)	Approximate location of Monitoring Well installed in 2010. Data in parenthesis represent groundwater elevations recorded on December 16, 2012.
URS-MW	Approximate location of Monitoring Wells installed during the investigation of the site's south adjoining property

Sampling Locations–BCP Remedial Investigations

SS-11 to SS-23	Approximate location of Surface Soil Samples collected in March 2010
TP-1 to TP-4	Approximate location of Test Pits completed in March 2010
WS/WSW-1 to WS/WSW-4	Approximate location of Wetland Sediment (WS)/Wetland Surface Water (WSW) samples collected in March 2010
BMW-13A to BMW-19A	Approximate location of Test Borings/Monitoring Wells completed in January/February 2010
SS-22	The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation
	Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.
494.5	Groundwater contour for water level data collected on December 16, 2012, arrow depicts inferred groundwater flow direction.

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			

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PROJ. NO: 06.6448
SCALE : 1"=50'
DATE : JAN. 28, 2013

FIGURE-X
GOUNDWATER CONTOURS DECEMBER 16, 2012

OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

C.T. MALE ASSOCIATES
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50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 • FAX 518.786.7299

SHEET 1 OF 1
DWG. NO: 12-____

XREFS: NONE

PROJECT NUMBER: 12.____

CAD DWG. FILE NAME: FIGURE-X.dwg

MAP REFERENCE No. 1

N.Y.S. ROUTE 4

N67°43'55"E 24.00'

N86°35'49"E 45.12'

N28°04'00"W 29.39'

N80°47'20"E 38.02'

S17°36'38"E 36.10'

N77°12'13"E 87.61'

N80°47'20"E 149.32'

MON ROW

Lands of
NEW YORK STATE

WETLAND 7

PERENNIAL STREAM 1

EARTHEN DIKE

PROPERTY LINE RUNS SOUTH EASTERLY ALONG THE SHORE OF WOOD CREEK 1148'± (PER MAP REFERENCE NO. 1)

WOOD CREEK

S87°04'00"E 50.00'

S85°35'10"E 111.90'

S85°35'10"E 54.65'

N06°35'20"E 175.45'

CIRF

CMON FLUSH

BMW-18A

BMW-14A

BMW-19A

BMW-17A

BMW-1A

MW-10R

SS-18

SS-19

SS-20

SS-22

SS-23

MW-12 (DESTROYED)

WS/WSW-4

HYD

CB

B-13

MW-1

MW-2A

MW-2 (DESTROYED)

TP-1

TP-4

TP-3

MW-5A

B-14

ISOLATED WETLAND 8/9

ISOLATED WETLAND 6

MW-7

MW-4A

BMW-15A

MW-10 (DESTROYED)

FORMER BUILDING FOOTPRINT PER MAP REFERENCE No. 1

SS-21

WS/WSW-2

MW-3 (DESTROYED)

MW-5

MW-11

MW-7A (DESTROYED)

SS-1

SS-11

MW-6A (DESTROYED)

BMW-16A

TP-2

MW-6

POWER HOUSE

SS-2

SS-3

WS/WSW-3

ISOLATED WETLAND 5

SS-12

SS-4

SS-5

MW-9A (DESTROYED)

BMW-11A

MW-8A

SS-14

600

BMW-13A

MW-8

SS-15

MW-4 (DESTROYED)

BMW-12A

N82°46'29"W 219.12'

N82°50'00"W 49.45'

N82°50'00"W 177.72'

URS-MW4

URS-MW

SS-13

ISOLATED WETLAND 3A

SEWER PUMP STATION

WS/WSW-1

WETLAND 2

WETLAND 1

N82°50'00"W 819.01'

SS-16

SS-17

N86°55'00"W 153.00'

ISOLATED WETLAND 3

Lands now or formerly
THE CLARENDON AND PITTSFORD RAILROAD COMPANY
Book 498 Page 841

Lands of
THE PEOPLE OF THE STATE OF NEW YORK

CHAMPLAIN CANAL

N02°43'30"E 371.57'

100

500

1,000

2,000

5,000

10,000

300

Map Notes:

1. North orientation per map reference no. 1.
2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
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Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall, County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

- CB □ — Catch Basin
- HYD ◁ — Hydrant
- Utility Pole
- 500 — Contours of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on February 11 and March 25, 2010.
- 500 — Contours of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on May 31, 2007 during the 2007 C.T. Male Supplemental Phase II ESA.
- 500 — Contours of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on December 14, 2012 and December 17, 2012.

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			

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PROJ. NO: 06.6448
SCALE : 1"=50'
DATE : JAN. 7, 2013

FIGURE-X
COMPOSITE OF GROUNDWATER ISOCONCENTRATION CONTOURS FOR 2007, 2012 AND 2012

OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

C.T. MALE ASSOCIATES
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50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299

SHEET 1 OF 1
DWG. NO: 13-____

CAD DWG. FILE NAME: K:\Projects\06648\SURVEY\AA Report Figures\FIGURE-X.dwg

EXHIBIT 2

October 2013 - GPR and Catch Basin Sampling (1/8/14)

C.T. MALE ASSOCIATES
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50 Century Hill Drive, Latham, NY 12110
518.786.7400 FAX 518.786.7299 ctmale@ctmale.com

January 8, 2014

Alicia Purzycki, P.E.
NYS Department of Environmental Conservation
Division of Environmental Remediation
232 Golf Course Road
Warrensburg, New York 12885
ajpurzyc@gw.dec.state.ny.us

RE: Supplemental Site Investigation
Old Champlain Mill BCP Site
Village of Whitehall, Washington County, NY
BCP Site No. C558036
CTMA Project No. 06.6448

Dear Ms. Purzycki:

C.T. Male Associates, Engineering, Surveying, Architecture & Landscape Architecture, P.C. (C.T. Male) has completed a supplemental investigation of the above referenced site for the purpose of identifying potential source area(s) of contamination in relation to the chlorinated volatile organic compound impacts found in groundwater within the northern portions of the site. A determination as to whether a source area(s) does or does not presently exist at the site is important in developing appropriate remedial strategies to address the groundwater contamination within the northern portions of the site.

Method of Investigation

Ground Penetrating Radar (GPR) and pipe locating geophysical survey techniques were conducted at the site on Wednesday, October 2, 2013 to identify the potential presence of dry wells, other subsurface disposal features, and buried piping extending out from the northern foundation wall of the former building primarily within the vicinity of monitoring well MW-2A to B-13 (see attached figure). The GPR and geophysical surveys were completed by New York Leak Detection Inc. (NYLD) of Jamesville, NY.

In addition to the above, sediment samples were collected from the existing catch basin located southwest of monitoring well MW-19A for volatile organic compound (VOC) analysis by EPA Method 8260. Sediment samples were collected from each one (1) foot horizon of sediment within the basin on Wednesday, October 2, 2013.

The supplemental site investigative work was conducted in accordance with the NYSDEC-approved Remedial Investigation Work Plan, including the Field Sampling Plan, Quality Assurance Plan and Health and Safety Plan.

Findings

The GPR and geophysical surveys identified five anomalies within the study area as described below:

Anomaly 1: Anomaly 1 was traced from an inlet pipe entering the southern side of the catch basin southwest of monitoring well MW-19A to the south for a distance of approximately 16 feet, toward the building foundation. The pipe at the inlet was comprised of concrete with an approximate diameter of 1.1 feet. NYLD reported that the pipe was either blocked or collapsed at 16 feet, and more likely to have collapsed as the GPR did not detect the pipe beyond this point. It should be noted that there is no information available regarding where the subject pipe originated within the mill and as such could have been connected to roof drains or possibly a floor drain.

Anomaly 2: Anomaly 2 was traced from an inlet entering the west side of the catch basin to the west toward the canal for a distance of approximately 130 feet, to the edge of a wooded area. The anomaly was not present in the wooded area or to the west of the wooded area toward the canal.

Anomaly 3: Anomaly 3 was noted in the northeastern portion of the study area running in an approximate north/south direction. NYLD indicated that the anomaly was consistent with a cable as opposed to a larger diameter structure. The anomaly terminated just south of a utility pole suggesting that the anomaly was related to an electrical conduit.

Anomaly 4: Anomaly 4 was noted in the northwestern portion of the study area running in an approximate north/south direction. NYLD indicated that the anomaly was associated with a communication cable which originated off-site to the north at a utility pole located along Route 4.

Anomaly 5: Anomaly 5 was noted in the northeastern portion of the study area. The anomaly extended outside of the study area to the north, within the site's driveway. NYLD indicated the anomaly was associated with the municipal water line as it connected to a hydrant located within the northeastern portion of the site.

Catch Basin Investigation: The catch basin is located in the central portion of the study area. The catch basin was observed to be partially full of debris including dimensional lumber (possibly a former cover for the catch basin), tree trunks & limbs, brick, concrete

and leaves. The debris was removed from the catch basin in order to access and sample the sediment.

The sediment was comprised of organic dark brown loose sand containing brick, concrete and wood fragments. The sediment thickness was approximately 8 to 12 inches and present directly above the concrete bottom within the basin.

Two sediment samples were collected for laboratory analysis; from 0-2 inches and 10-12 inches. The sediment samples were collected utilizing a clean decontaminated shovel for each interval. Following the recovery of the soil samples from the catch basin, each sample was placed in a new, clean sealable plastic bag and then screened for the presence of detectable volatile organic compounds (VOCs) with a MiniRAE 3000 PID equipped with a 10.6 eV lamp. The PID meter was calibrated according to manufacturer recommendations prior to use. PID readings of the recovered soil samples were less than 1 part per million (ppm) above background. Petroleum or solvent type odors were not noted in the sediment samples and staining of the sediment was not evident.

A new pair of clean sampling gloves was used to transfer each soil sample to labeled, laboratory-supplied clean containers (glass jars with Teflon-lined lids). The jars were sealed and subsequently placed into a cooler containing bagged ice and a transport blank supplied by the laboratory. The soil samples were submitted for laboratory analysis for VOCs by EPA Method 8260. The samples were transported to Chemtech Consulting Group, Inc., of Mountainside, New Jersey following proper chain of custody protocols.

Quality control/quality assurance (QA/QC) samples were collected including a blind duplicate sample, a MS/MSD sample, and a trip blank.

As other drainage structures were not identified within the area of investigation during the field work additional sampling was not conducted.

Analytical Results

Carbon disulfide at a concentration of 2.2 micrograms per kilogram (ug/kg) and Tetrachloroethene at a concentration of 4.5 ug/kg were detected in sample CB(10-12)RE. Both of these detections were in the sample collected from a depth of 10 to 12 inches, and below their respective Unrestricted Use Soil Cleanup Objective (SCO) per 6 NYCRR Part 375 regulations.

Conclusions

The supplemental investigation has not identified any buried liquid containing conduits or discharge features other than the previously identified storm water basin in the

northern portion of the site and the inlet and outlet pipes connected to that basin. The geophysical survey was able to identify that an inlet pipe to the catch basin originates south of the basin in the direction of the former mill, and the outlet pipe is directed to the west toward the Champlain Canal. Due to poor signal recovery, the actual discharge location of the storm water basin discharge pipe was not identified, but appears to be into the Champlain Canal. Similarly, the lack or loss of signal approximately 16 feet south of the storm water basin suggests a portion of the inlet pipe is broken or has collapsed.

The analytical results for the sediment samples collected from the catch basin identified only low concentrations of carbon disulfide and tetrachloroethene in the sediment sample from the 10 to 12 inch depth, this essentially being the top surface of the concrete bottom of the catch basin. The concentrations of these compounds do not suggest that the sediment in the basin itself is a contaminant source location.

Given that we do not know when the inlet pipe to the catch basin collapsed, if in fact it did, there is a potential that the liquids from the mill may have historically discharged from the pipe into the surrounding soils for some period of time. Due to the suspected collapse of the inlet pipe leading from the former mill to the catch basin, further targeted exploration of the soils beneath and adjacent to the (suspected) collapsed portion of the pipe is warranted to determine if a hot spot of soil contamination by chlorinated solvents is or is not present.

In addition to the proposed soil investigation, it is proposed to collect another round of groundwater samples from those monitoring wells located in the same area to determine current groundwater quality. The wells to be sampled include MW-1A, MW-2A, MW-3A, MW-5A, MW-10A, BMW-14A, BMW-15A, MW-16A, and BMW-18A.

If the supplemental groundwater monitoring event reveals on-going groundwater contaminant degradation, and a source area of chlorinated solvent is not identified in the soils beneath the presumed area of pipe collapse, it will be reasonable to conclude that a defined source area of chlorinated solvent is not present. If this scenario is realized, C.T. Male would likely recommend that the overall remedial alternative which should be selected as the remedy for the site involve continued monitoring and evaluation of the natural degradation processes currently believed to be at work at the site.

Of course, if a source area for the chlorinated solvent impacted soils area is identified in the vicinity of the suspected pipe collapse, other remedial options, including source removal, would be developed in the Alternatives Analysis Report for the Department's consideration when selecting the remedial alternative for implementation.

Prior to initiating the work described above, we would appreciate the Department's comments regarding this approach.

Finally, although it was previously discussed that a meeting with the Department should be held to discuss the findings of this supplemental work, it appears that such a meeting may be premature and is best scheduled after the additional investigations indentified above have been completed.

If you have any questions, please contact me at your convenience.

Respectfully submitted,

C.T. MALE ASSOCIATES



Kirk Moline
Managing Geologist

Att. GRP Report
Laboratory Report

c: Poultney Street Partners
Gary Bowitch, Esq.
Roy Redmond, Hatch, Mott, McDonald

NYLD Infrastructure

NEW YORK LEAK DETECTION, INC.

Field Report

Date: 10-2-13 Technician: Steven Carney

Customer: CM Male

Site Address: Champlian Mill Whitehall, 16 – 50 Poultney Street, Whitehall, NY

Contact Person: Aimee Gates Phone: 518 223-2413 Phone: _____

Scope of Work: Clear for utilities in hash marked areas on map provided

Type of Service:

☐ *Leak Detection* ☒ *Utility Location/GPR* ☐ *Video Inspection*

☐ *Infrastructure Assessment* ☐ *Utility Mapping/AutoCAD*

Type of Equipment Used

☐ *Profiler EMP 400* ☒ *RD4000* ☐ MetroTech Vivax vLocPro2

☐ *LC2500 Leak Correlator* ☒ *Noggin 250 mHz* ☐ PosiTector UTG G3

☐ *S-30 Surveyor* ☒ Noggin 500 mHz ☐ *Video Inspection Camera*

☐ *Sonde* ☐ Conquest 1000 mHz ☐ *Helium # Bottles*

☐ *Leica Robotic Total Station* ☐ *Leica GPS*

Marking Used

☒ *Paint* ☒ *Flags* ☐ *Chalk*

☐ *Updated existing maps onsite* ☐ *Other:* _____

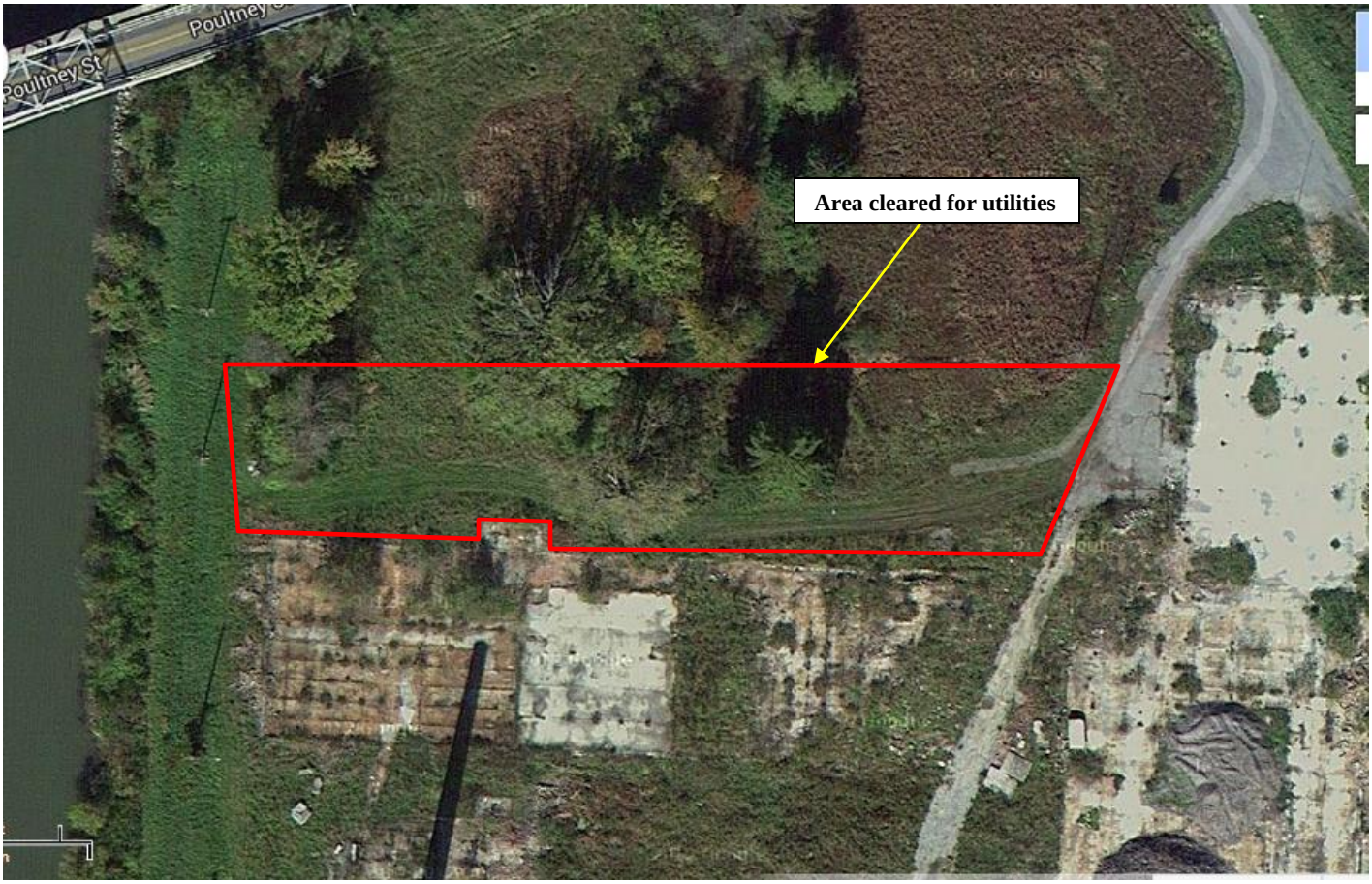
Instructions from Onsite Contact: Clear for utilities in hash marked areas on map provided

Size of Pipe: n/a

Notes/Testing Results: Cleared area marked out below for all utilities with the use of the RD7000 locator and the noggin GPR. Marked all findings with paint and flags.

Information Transfer

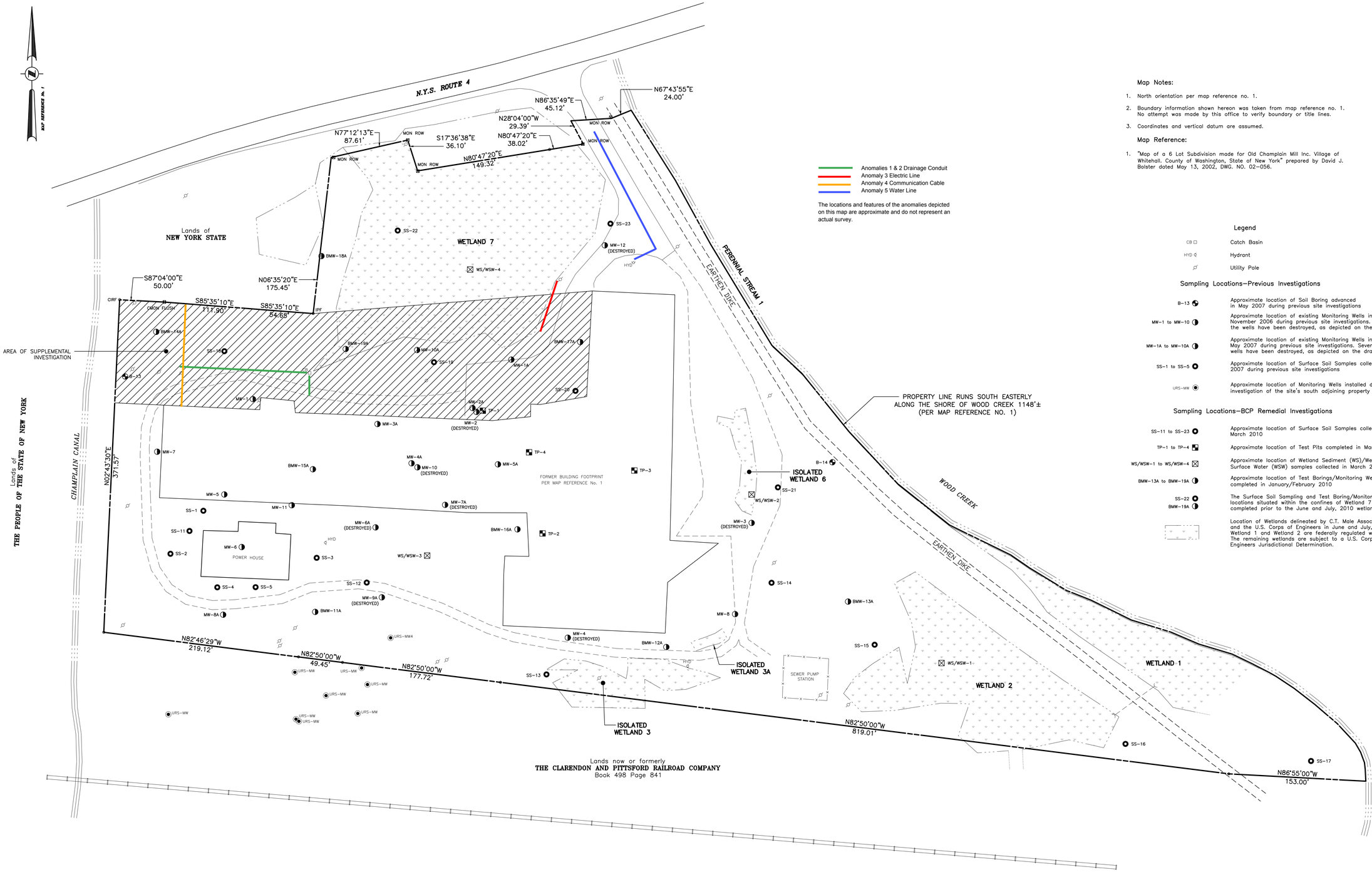
☒ *Information relayed on site to: Aimee Gates* ☐ *Hand drawn map (forward to office for digital remake)* ☐ *All markings picked up by surveyors*


Poultney St
Area cleared for utilities

XREFS: NONE

PROJECT NUMBER: 06.6448

CAD DWG. FILE NAME: FIGURE-2.DWG



Anomalies 1 & 2 Drainage Conduit
Anomaly 3 Electric Line
Anomaly 4 Communication Cable
Anomaly 5 Water Line

The locations and features of the anomalies depicted on this map are approximate and do not represent an actual survey.

Map Notes:

1. North orientation per map reference no. 1.
2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
3. Coordinates and vertical datum are assumed.

Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall. County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

CB □	Catch Basin
HYD ◇	Hydrant
⌀	Utility Pole

Sampling Locations–Previous Investigations

B-13	Approximate location of Soil Boring advanced in May 2007 during previous site investigations
MW-1 to MW-10	Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
MW-1A to MW-10A	Approximate location of existing Monitoring Wells installed in May 2007 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
SS-1 to SS-5	Approximate location of Surface Soil Samples collected in 2007 during previous site investigations
URS-MW	Approximate location of Monitoring Wells installed during the investigation of the site's south adjoining property

Sampling Locations–BCP Remedial Investigations

SS-11 to SS-23	Approximate location of Surface Soil Samples collected in March 2010
TP-1 to TP-4	Approximate location of Test Pits completed in March 2010
WS/WSW-1 to WS/WSW-4	Approximate location of Wetland Sediment (WS)/Wetland Surface Water (WSW) samples collected in March 2010
BMW-13A to BMW-19A	Approximate location of Test Borings/Monitoring Wells completed in January/February 2010
SS-22 BMW-19A	The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation
	Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

"ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES, P.C. OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY".

DATE		REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

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APPROVED:
DRAFTED : S.WUNSCH
CHECKED : S.BEIBER
PROJ. NO: 06.6448
SCALE : 1"=50'
DATE : MAY 20, 2013

SITE INVESTIGATION PLAN

OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

C.T. MALE ASSOCIATES, P.C.
50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110
518.786.7400 • FAX 518.786.7299
ARCHITECTURE & BUILDING SYSTEMS ENGINEERING • CIVIL ENGINEERING
ENVIRONMENTAL SERVICES • SURVEY & LAND INFORMATION SERVICES

SHEET 1 OF 1
DWG. NO: 10-XXX



01 Interior of catch basin.jpg



02 Anomaly 1 from CB toward foundation.jpg



03 Anomaly 2 at woods.jpg



04 Anomaly 2 from catch basin west toward canal.jpg



05 Anomaly 2 looking east back at catch basin.jpg



06 Anomaly 3 electric line.jpg



07 Anomaly 3 looking north.jpg



08 Anomaly 3 looking south.jpg



09 Anomaly 4 communication cable looking north.jpg



10 Anomaly 4 looking south.jpg



11 Anomaly 4 looking toward the road.jpg



12 Anomaly 4 near fence looking north.jpg



13 Anomaly 5 looking north.jpg



14 Anomaly 5 looking south near split.jpg



15 Anomaly 5 looking southwest.jpg



16 From edge of canal looking back toward anomaly 2.jpg

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS

PROJECT NAME : OLD CHAMPLAIN MILL PROPERTY

C.T. MALE ASSOCIATES, P.C.,

50 CENTURY HILL DRIVE

LATHAM, NY - 12110

Phone No: 518-786-7400

ORDER ID : E4003

ATTENTION : Kirk Moline

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

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Cover Page

Order ID : E4003

Project ID : Old Champlain Mill Property

Client : C.T. Male Associates, P.C.,

Lab Sample Number	Client Sample Number
E4003-01	CB(0-2)
E4003-02	E4003-01MS
E4003-03	E4003-01MSD
E4003-04	CB(10-12)
E4003-05	CB-FD-1

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____ Date: 10/15/2013

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
CB(0-2)	E4003-01	8260C					Chemtech-SOP
CB(10-12)	E4003-04	8260C					Chemtech-SOP
CB-FD-1	E4003-05	8260C					Chemtech-SOP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIa

SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
E4003-01	SOIL	10/02/13	10/05/13		10/07/13
E4003-04	SOIL	10/02/13	10/05/13		10/09/13
E4003-05	SOIL	10/02/13	10/05/13		10/09/13

* Details For Test :VOC-TCLVOA-10

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
E4003-01	Solid	8260C	5035		
E4003-02	Solid	8260C	5035		
E4003-03	Solid	8260C	5035		
E4003-04	Solid	8260C	5035		
E4003-05	Solid	8260C	5035		

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

C.T. Male Associates, P.C.,
Project Name: Old Champlain Mill Property
Project # N/A
Chemtech Project # E4003
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
5 Solid samples were received on 10/05/2013.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_D were done using GC column RTX-VMS which is 20 meters, 0.18 mm id, 1.0 um df, Restek Cat. #49914. The Trap was supplied by SUPELCO, K (VOACARB 3000) , TEKMAR LSC-2000 Concentrator.The analysis of VOC-TCLVOA-10 was based on method 8260C.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for CB(0-2)MS [4-Bromofluorobenzene - 55%], CB(0-2)MSD [4-Bromofluorobenzene - 60%].
The Internal Standards Areas met the acceptable requirements except for CB(0-2), CB(0-2)MS, CB(0-2)MSD, CB(10-12), CB(10-12)RE, CB-FD-1 and CB-FD-1RE.
Internal std . is failed, for sample # CB(0-2), but that smple data is Confirmed with that sample CB(0-2),MS/MSD .
The Retention Times were acceptable for all samples.
The MS {E4003-02MS} with File ID: VD039264.D recoveries met the requirements for all compounds except for 1,1,2,2-Tetrachloroethane[169%], 1,2,3-Trichlorobenzene[36%], 1,2,4-Trichlorobenzene[43%], Isopropylbenzene[162%], Methyl Acetate[215%] and Methylcyclohexane[54%] .
The MSD {E4003-03MSD} with File ID: VD039265.D recoveries met the acceptable requirements except for 1,1,2,2-Tetrachloroethane[150%], 1,2,3-Trichlorobenzene[37%], 1,2,4-Trichlorobenzene[43%], Isopropylbenzene[164%], Methyl Acetate[229%] and Methylcyclohexane[64%] .
The RPD recoveries met criteria .
The Blank Spike for {VD1009SBS01} with File ID: VD039333.D met requirements for all samples except for Bromochloromethane[67%] .
The Blank analysis indicated presence of Methylene Chloride[1.8 ug/Kg] FileID:VD039312.D{VD1008SBL02} due to possible lab contamination.
The Initial Calibration met the requirements .
The %RSD is greater than 15% in the Initial Calibration (Method 82D100713S.M) for Methyl Acetate this compound is passing on Linear regression while Chloromethane this compound is passing on Quadratic regression .

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The Continuous CalibrationFile ID VD039331.D met the requirements except for . 1,2-Dibromo-3-Chloropropane but it is not present in associate samples.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **E4003**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: **MOHINI SONI** **Date:** **10/15/2013**

2nd Level QA Review Signature: _____ **Date:** _____

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

LAB CHRONICLE

OrderID:	E4003	**OrderDate:**	10/7/2013 9:32:20 AM
Client:	C.T. Male Associates, P.C.,	**Project:**	Old Champlain Mill Property
Contact:	Kirk Moline	**Location:**	G31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
E4003-01	**CB(0-2)**	**SOIL**			**10/02/13**			**10/05/13**
			VOC-TCLVOA-10	8260C			10/07/13	
E4003-04	**CB(10-12)**	**SOIL**			**10/02/13**			**10/05/13**
			VOC-TCLVOA-10	8260C			10/09/13	
E4003-04RE	**CB(10-12)RE**	**SOIL**			**10/02/13**			**10/05/13**
			VOC-TCLVOA-10	8260C			10/09/13	
E4003-05	**CB-FD-1**	**SOIL**			**10/02/13**			**10/05/13**
			VOC-TCLVOA-10	8260C			10/09/13	
E4003-05RE	**CB-FD-1RE**	**SOIL**			**10/02/13**			**10/05/13**
			VOC-TCLVOA-10	8260C			10/09/13	

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Hit Summary Sheet
SW-846

SDG No.: E4003

Client: C.T. Male Associates, P.C.,

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**CB(10-12)RE**								
E4003-04RE	CB(10-12)RE	SOIL	Carbon Disulfide	2.20	J	0.71	0.71	7.1	ug/Kg
E4003-04RE	CB(10-12)RE	SOIL	Tetrachloroethene	4.50	J	0.71	0.71	7.1	ug/Kg
			Total Voc :	6.7					
			Total Concentration:	6.7					
Client ID:	**CB-FD-1RE**								
E4003-05RE	CB-FD-1RE	SOIL	Tetrachloroethene	7.10	J	1.2	1.2	12.2	ug/Kg
			Total Voc :	7.1					
			Total Concentration:	7.1					

SAMPLE DATA

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(0-2)	SDG No.:	E4003
Lab Sample ID:	E4003-01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	49.1
Sample Wt/Vol:	3.66 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039263.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	1.3	U	1.3	1.3	13.4	ug/Kg
74-87-3	Chloromethane	1.3	U	1.3	1.3	13.4	ug/Kg
75-01-4	Vinyl Chloride	1.3	U	1.3	1.3	13.4	ug/Kg
74-83-9	Bromomethane	2.7	U	2.7	2.7	13.4	ug/Kg
75-00-3	Chloroethane	1.3	U	1.3	1.3	13.4	ug/Kg
75-69-4	Trichlorofluoromethane	1.3	U	1.3	1.3	13.4	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.3	U	1.3	1.3	13.4	ug/Kg
75-35-4	1,1-Dichloroethene	1.3	U	1.3	1.3	13.4	ug/Kg
67-64-1	Acetone	6.7	U	6.7	6.7	67.1	ug/Kg
75-15-0	Carbon Disulfide	1.3	U	1.3	1.3	13.4	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.3	U	1.3	1.3	13.4	ug/Kg
79-20-9	Methyl Acetate	2.7	U	2.7	2.7	13.4	ug/Kg
75-09-2	Methylene Chloride	1.3	U	1.3	1.3	13.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.3	U	1.3	1.3	13.4	ug/Kg
75-34-3	1,1-Dichloroethane	1.3	U	1.3	1.3	13.4	ug/Kg
110-82-7	Cyclohexane	1.3	U	1.3	1.3	13.4	ug/Kg
78-93-3	2-Butanone	20.1	U	8.3	20.1	67.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.3	U	1.3	1.3	13.4	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.3	U	1.3	1.3	13.4	ug/Kg
74-97-5	Bromochloromethane	1.3	U	1.3	1.3	13.4	ug/Kg
67-66-3	Chloroform	1.3	U	1.3	1.3	13.4	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.3	U	1.3	1.3	13.4	ug/Kg
108-87-2	Methylcyclohexane	1.3	U	1.3	1.3	13.4	ug/Kg
71-43-2	Benzene	1.3	U	1	1.3	13.4	ug/Kg
107-06-2	1,2-Dichloroethane	1.3	U	1.3	1.3	13.4	ug/Kg
79-01-6	Trichloroethene	1.3	U	1.3	1.3	13.4	ug/Kg
78-87-5	1,2-Dichloropropane	1.3	U	0.7	1.3	13.4	ug/Kg
75-27-4	Bromodichloromethane	1.3	U	1.3	1.3	13.4	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.7	U	6.7	6.7	67.1	ug/Kg
108-88-3	Toluene	1.3	U	1.3	1.3	13.4	ug/Kg
10061-02-6	t-1,3-Dichloropropene	1.3	U	1.3	1.3	13.4	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(0-2)	SDG No.:	E4003
Lab Sample ID:	E4003-01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	49.1
Sample Wt/Vol:	3.66 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039263.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	1.3	U	1.3	1.3	13.4	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.7	U	2.4	2.7	13.4	ug/Kg
591-78-6	2-Hexanone	6.7	U	6.7	6.7	67.1	ug/Kg
124-48-1	Dibromochloromethane	1.3	U	1.3	1.3	13.4	ug/Kg
106-93-4	1,2-Dibromoethane	1.3	U	1.3	1.3	13.4	ug/Kg
127-18-4	Tetrachloroethene	1.3	U	1.3	1.3	13.4	ug/Kg
108-90-7	Chlorobenzene	1.3	U	1.3	1.3	13.4	ug/Kg
100-41-4	Ethyl Benzene	1.3	U	1.3	1.3	13.4	ug/Kg
179601-23-1	m/p-Xylenes	2.7	U	1.9	2.7	26.8	ug/Kg
95-47-6	o-Xylene	1.3	U	1.3	1.3	13.4	ug/Kg
100-42-5	Styrene	1.3	U	1.2	1.3	13.4	ug/Kg
75-25-2	Bromoform	4	U	2	4	13.4	ug/Kg
98-82-8	Isopropylbenzene	1.3	U	1.3	1.3	13.4	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U	1.2	1.3	13.4	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.3	U	0.99	1.3	13.4	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.3	U	1.1	1.3	13.4	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.3	U	1.3	1.3	13.4	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	13.4	U	2.3	13.4	13.4	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.3	U	1.3	1.3	13.4	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.7	U	1.3	2.7	13.4	ug/Kg
123-91-1	1,4-Dioxane	270	U	270	270	270	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.4		56 - 120		95%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		57 - 135		105%	SPK: 50
2037-26-5	Toluene-d8	47.5		67 - 123		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	26.2		33 - 141		52%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	506203	6.54				
540-36-3	1,4-Difluorobenzene	588591	7.65				
3114-55-4	Chlorobenzene-d5	406386	11.83				
3855-82-1	1,4-Dichlorobenzene-d4	138699	14.19				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(0-2)	SDG No.:	E4003
Lab Sample ID:	E4003-01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	49.1
Sample Wt/Vol:	3.66 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039263.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(10-12)	SDG No.:	E4003
Lab Sample ID:	E4003-04	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	27.5
Sample Wt/Vol:	4.62 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039319.D	1		10/09/13	VD100813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.75	U	0.75	0.75	7.5	ug/Kg
74-87-3	Chloromethane	0.75	U	0.75	0.75	7.5	ug/Kg
75-01-4	Vinyl Chloride	0.75	U	0.75	0.75	7.5	ug/Kg
74-83-9	Bromomethane	1.5	U	1.5	1.5	7.5	ug/Kg
75-00-3	Chloroethane	0.75	U	0.75	0.75	7.5	ug/Kg
75-69-4	Trichlorofluoromethane	0.75	U	0.75	0.75	7.5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.75	U	0.75	0.75	7.5	ug/Kg
75-35-4	1,1-Dichloroethene	0.75	U	0.75	0.75	7.5	ug/Kg
67-64-1	Acetone	3.7	U	3.7	3.7	37.3	ug/Kg
75-15-0	Carbon Disulfide	0.75	U	0.75	0.75	7.5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.75	U	0.75	0.75	7.5	ug/Kg
79-20-9	Methyl Acetate	1.5	U	1.5	1.5	7.5	ug/Kg
75-09-2	Methylene Chloride	0.75	U	0.75	0.75	7.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.75	U	0.75	0.75	7.5	ug/Kg
75-34-3	1,1-Dichloroethane	0.75	U	0.75	0.75	7.5	ug/Kg
110-82-7	Cyclohexane	0.75	U	0.75	0.75	7.5	ug/Kg
78-93-3	2-Butanone	11.2	U	4.6	11.2	37.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.75	U	0.75	0.75	7.5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	0.75	7.5	ug/Kg
74-97-5	Bromochloromethane	0.75	U	0.75	0.75	7.5	ug/Kg
67-66-3	Chloroform	0.75	U	0.75	0.75	7.5	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.75	U	0.75	0.75	7.5	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	0.75	7.5	ug/Kg
71-43-2	Benzene	0.75	U	0.57	0.75	7.5	ug/Kg
107-06-2	1,2-Dichloroethane	0.75	U	0.75	0.75	7.5	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	0.75	7.5	ug/Kg
78-87-5	1,2-Dichloropropane	0.75	U	0.39	0.75	7.5	ug/Kg
75-27-4	Bromodichloromethane	0.75	U	0.75	0.75	7.5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.7	U	3.7	3.7	37.3	ug/Kg
108-88-3	Toluene	0.75	U	0.75	0.75	7.5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.75	U	0.75	0.75	7.5	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(10-12)	SDG No.:	E4003
Lab Sample ID:	E4003-04	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	27.5
Sample Wt/Vol:	4.62 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039319.D	1		10/09/13	VD100813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.75	U	0.75	0.75	7.5	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.5	U	1.3	1.5	7.5	ug/Kg
591-78-6	2-Hexanone	3.7	U	3.7	3.7	37.3	ug/Kg
124-48-1	Dibromochloromethane	0.75	U	0.75	0.75	7.5	ug/Kg
106-93-4	1,2-Dibromoethane	0.75	U	0.75	0.75	7.5	ug/Kg
127-18-4	Tetrachloroethene	0.75	U	0.75	0.75	7.5	ug/Kg
108-90-7	Chlorobenzene	0.75	U	0.75	0.75	7.5	ug/Kg
100-41-4	Ethyl Benzene	0.75	U	0.75	0.75	7.5	ug/Kg
179601-23-1	m/p-Xylenes	1.5	U	1.1	1.5	14.9	ug/Kg
95-47-6	o-Xylene	0.75	U	0.75	0.75	7.5	ug/Kg
100-42-5	Styrene	0.75	U	0.67	0.75	7.5	ug/Kg
75-25-2	Bromoform	2.2	U	1.1	2.2	7.5	ug/Kg
98-82-8	Isopropylbenzene	0.75	U	0.72	0.75	7.5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U	0.69	0.75	7.5	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.75	U	0.55	0.75	7.5	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.75	U	0.61	0.75	7.5	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.75	U	0.75	0.75	7.5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	7.5	U	1.3	7.5	7.5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.75	U	0.75	0.75	7.5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.5	U	0.75	1.5	7.5	ug/Kg
123-91-1	1,4-Dioxane	150	U	150	150	150	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	40.4		56 - 120		81%	SPK: 50
1868-53-7	Dibromofluoromethane	49		57 - 135		98%	SPK: 50
2037-26-5	Toluene-d8	48.2		67 - 123		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	31.4		33 - 141		63%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	579202	6.51				
540-36-3	1,4-Difluorobenzene	671820	7.63				
3114-55-4	Chlorobenzene-d5	520606	11.8				
3855-82-1	1,4-Dichlorobenzene-d4	187992	14.16				

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(10-12)	SDG No.:	E4003
Lab Sample ID:	E4003-04	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	27.5
Sample Wt/Vol:	4.62 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039319.D	1		10/09/13	VD100813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(10-12)RE	SDG No.:	E4003
Lab Sample ID:	E4003-04RE	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	27.5
Sample Wt/Vol:	4.88 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039335.D	1		10/09/13	VD100913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.71	U	0.71	0.71	7.1	ug/Kg
74-87-3	Chloromethane	0.71	U	0.71	0.71	7.1	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	0.71	7.1	ug/Kg
74-83-9	Bromomethane	1.4	U	1.4	1.4	7.1	ug/Kg
75-00-3	Chloroethane	0.71	U	0.71	0.71	7.1	ug/Kg
75-69-4	Trichlorofluoromethane	0.71	U	0.71	0.71	7.1	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.71	U	0.71	0.71	7.1	ug/Kg
75-35-4	1,1-Dichloroethene	0.71	U	0.71	0.71	7.1	ug/Kg
67-64-1	Acetone	3.5	U	3.5	3.5	35.3	ug/Kg
75-15-0	Carbon Disulfide	2.2	J	0.71	0.71	7.1	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.71	U	0.71	0.71	7.1	ug/Kg
79-20-9	Methyl Acetate	1.4	U	1.4	1.4	7.1	ug/Kg
75-09-2	Methylene Chloride	0.71	U	0.71	0.71	7.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.71	U	0.71	0.71	7.1	ug/Kg
75-34-3	1,1-Dichloroethane	0.71	U	0.71	0.71	7.1	ug/Kg
110-82-7	Cyclohexane	0.71	U	0.71	0.71	7.1	ug/Kg
78-93-3	2-Butanone	10.6	U	4.4	10.6	35.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.71	U	0.71	0.71	7.1	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.71	U	0.71	0.71	7.1	ug/Kg
74-97-5	Bromochloromethane	0.71	UQ	0.71	0.71	7.1	ug/Kg
67-66-3	Chloroform	0.71	U	0.71	0.71	7.1	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.71	U	0.71	0.71	7.1	ug/Kg
108-87-2	Methylcyclohexane	0.71	U	0.71	0.71	7.1	ug/Kg
71-43-2	Benzene	0.71	U	0.54	0.71	7.1	ug/Kg
107-06-2	1,2-Dichloroethane	0.71	U	0.71	0.71	7.1	ug/Kg
79-01-6	Trichloroethene	0.71	U	0.71	0.71	7.1	ug/Kg
78-87-5	1,2-Dichloropropane	0.71	U	0.37	0.71	7.1	ug/Kg
75-27-4	Bromodichloromethane	0.71	U	0.71	0.71	7.1	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.5	U	3.5	3.5	35.3	ug/Kg
108-88-3	Toluene	0.71	U	0.71	0.71	7.1	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.71	U	0.71	0.71	7.1	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(10-12)RE	SDG No.:	E4003
Lab Sample ID:	E4003-04RE	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	27.5
Sample Wt/Vol:	4.88 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039335.D	1		10/09/13	VD100913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.71	U	0.71	0.71	7.1	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.4	U	1.3	1.4	7.1	ug/Kg
591-78-6	2-Hexanone	3.5	U	3.5	3.5	35.3	ug/Kg
124-48-1	Dibromochloromethane	0.71	U	0.71	0.71	7.1	ug/Kg
106-93-4	1,2-Dibromoethane	0.71	U	0.71	0.71	7.1	ug/Kg
127-18-4	Tetrachloroethene	4.5	J	0.71	0.71	7.1	ug/Kg
108-90-7	Chlorobenzene	0.71	U	0.71	0.71	7.1	ug/Kg
100-41-4	Ethyl Benzene	0.71	U	0.71	0.71	7.1	ug/Kg
179601-23-1	m/p-Xylenes	1.4	U	1	1.4	14.1	ug/Kg
95-47-6	o-Xylene	0.71	U	0.71	0.71	7.1	ug/Kg
100-42-5	Styrene	0.71	U	0.64	0.71	7.1	ug/Kg
75-25-2	Bromoform	2.1	U	1	2.1	7.1	ug/Kg
98-82-8	Isopropylbenzene	0.71	U	0.68	0.71	7.1	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.71	U	0.65	0.71	7.1	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.71	U	0.52	0.71	7.1	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.71	U	0.58	0.71	7.1	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.71	U	0.71	0.71	7.1	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	7.1	U	1.2	7.1	7.1	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.71	U	0.71	0.71	7.1	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.4	U	0.71	1.4	7.1	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	140	140	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.8		56 - 120		86%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		57 - 135		100%	SPK: 50
2037-26-5	Toluene-d8	50.5		67 - 123		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.2		33 - 141		74%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	519263	6.5				
540-36-3	1,4-Difluorobenzene	591632	7.62				
3114-55-4	Chlorobenzene-d5	499508	11.8				
3855-82-1	1,4-Dichlorobenzene-d4	188704	14.17				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(10-12)RE	SDG No.:	E4003
Lab Sample ID:	E4003-04RE	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	27.5
Sample Wt/Vol:	4.88 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039335.D	1		10/09/13	VD100913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB-FD-1	SDG No.:	E4003
Lab Sample ID:	E4003-05	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	45.6
Sample Wt/Vol:	3.82 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039320.D	1		10/09/13	VD100813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	1.2	U	1.2	1.2	12	ug/Kg
74-87-3	Chloromethane	1.2	U	1.2	1.2	12	ug/Kg
75-01-4	Vinyl Chloride	1.2	U	1.2	1.2	12	ug/Kg
74-83-9	Bromomethane	2.4	U	2.4	2.4	12	ug/Kg
75-00-3	Chloroethane	1.2	U	1.2	1.2	12	ug/Kg
75-69-4	Trichlorofluoromethane	1.2	U	1.2	1.2	12	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.2	U	1.2	1.2	12	ug/Kg
75-35-4	1,1-Dichloroethene	1.2	U	1.2	1.2	12	ug/Kg
67-64-1	Acetone	6	U	6	6	60.2	ug/Kg
75-15-0	Carbon Disulfide	1.2	U	1.2	1.2	12	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.2	U	1.2	1.2	12	ug/Kg
79-20-9	Methyl Acetate	2.4	U	2.4	2.4	12	ug/Kg
75-09-2	Methylene Chloride	1.2	U	1.2	1.2	12	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.2	U	1.2	1.2	12	ug/Kg
75-34-3	1,1-Dichloroethane	1.2	U	1.2	1.2	12	ug/Kg
110-82-7	Cyclohexane	1.2	U	1.2	1.2	12	ug/Kg
78-93-3	2-Butanone	18	U	7.5	18	60.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.2	U	1.2	1.2	12	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.2	U	1.2	1.2	12	ug/Kg
74-97-5	Bromochloromethane	1.2	U	1.2	1.2	12	ug/Kg
67-66-3	Chloroform	1.2	U	1.2	1.2	12	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.2	U	1.2	1.2	12	ug/Kg
108-87-2	Methylcyclohexane	1.2	U	1.2	1.2	12	ug/Kg
71-43-2	Benzene	1.2	U	0.91	1.2	12	ug/Kg
107-06-2	1,2-Dichloroethane	1.2	U	1.2	1.2	12	ug/Kg
79-01-6	Trichloroethene	1.2	U	1.2	1.2	12	ug/Kg
78-87-5	1,2-Dichloropropane	1.2	U	0.63	1.2	12	ug/Kg
75-27-4	Bromodichloromethane	1.2	U	1.2	1.2	12	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6	U	6	6	60.2	ug/Kg
108-88-3	Toluene	1.2	U	1.2	1.2	12	ug/Kg
10061-02-6	t-1,3-Dichloropropene	1.2	U	1.2	1.2	12	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB-FD-1	SDG No.:	E4003
Lab Sample ID:	E4003-05	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	45.6
Sample Wt/Vol:	3.82 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039320.D	1		10/09/13	VD100813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	1.2	U	1.2	1.2	12	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.4	U	2.2	2.4	12	ug/Kg
591-78-6	2-Hexanone	6	U	6	6	60.2	ug/Kg
124-48-1	Dibromochloromethane	1.2	U	1.2	1.2	12	ug/Kg
106-93-4	1,2-Dibromoethane	1.2	U	1.2	1.2	12	ug/Kg
127-18-4	Tetrachloroethene	1.2	U	1.2	1.2	12	ug/Kg
108-90-7	Chlorobenzene	1.2	U	1.2	1.2	12	ug/Kg
100-41-4	Ethyl Benzene	1.2	U	1.2	1.2	12	ug/Kg
179601-23-1	m/p-Xylenes	2.4	U	1.7	2.4	24.1	ug/Kg
95-47-6	o-Xylene	1.2	U	1.2	1.2	12	ug/Kg
100-42-5	Styrene	1.2	U	1.1	1.2	12	ug/Kg
75-25-2	Bromoform	3.6	U	1.8	3.6	12	ug/Kg
98-82-8	Isopropylbenzene	1.2	U	1.2	1.2	12	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U	1.1	1.2	12	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.2	U	0.89	1.2	12	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.2	U	0.99	1.2	12	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.2	U	1.2	1.2	12	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	2.1	12	12	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.2	U	1.2	1.2	12	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.4	U	1.2	2.4	12	ug/Kg
123-91-1	1,4-Dioxane	240	U	240	240	240	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.4		56 - 120		83%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		57 - 135		107%	SPK: 50
2037-26-5	Toluene-d8	48.9		67 - 123		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	31		33 - 141		62%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	607978	6.5				
540-36-3	1,4-Difluorobenzene	677374	7.62				
3114-55-4	Chlorobenzene-d5	512836	11.81				
3855-82-1	1,4-Dichlorobenzene-d4	194846	14.17				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB-FD-1	SDG No.:	E4003
Lab Sample ID:	E4003-05	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	45.6
Sample Wt/Vol:	3.82 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039320.D	1		10/09/13	VD100813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB-FD-1RE	SDG No.:	E4003
Lab Sample ID:	E4003-05RE	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	45.6
Sample Wt/Vol:	3.77 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039336.D	1		10/09/13	VD100913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	1.2	U	1.2	1.2	12.2	ug/Kg
74-87-3	Chloromethane	1.2	U	1.2	1.2	12.2	ug/Kg
75-01-4	Vinyl Chloride	1.2	U	1.2	1.2	12.2	ug/Kg
74-83-9	Bromomethane	2.4	U	2.4	2.4	12.2	ug/Kg
75-00-3	Chloroethane	1.2	U	1.2	1.2	12.2	ug/Kg
75-69-4	Trichlorofluoromethane	1.2	U	1.2	1.2	12.2	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.2	U	1.2	1.2	12.2	ug/Kg
75-35-4	1,1-Dichloroethene	1.2	U	1.2	1.2	12.2	ug/Kg
67-64-1	Acetone	6.1	U	6.1	6.1	60.9	ug/Kg
75-15-0	Carbon Disulfide	1.2	U	1.2	1.2	12.2	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.2	U	1.2	1.2	12.2	ug/Kg
79-20-9	Methyl Acetate	2.4	U	2.4	2.4	12.2	ug/Kg
75-09-2	Methylene Chloride	1.2	U	1.2	1.2	12.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.2	U	1.2	1.2	12.2	ug/Kg
75-34-3	1,1-Dichloroethane	1.2	U	1.2	1.2	12.2	ug/Kg
110-82-7	Cyclohexane	1.2	U	1.2	1.2	12.2	ug/Kg
78-93-3	2-Butanone	18.3	U	7.6	18.3	60.9	ug/Kg
56-23-5	Carbon Tetrachloride	1.2	U	1.2	1.2	12.2	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.2	U	1.2	1.2	12.2	ug/Kg
74-97-5	Bromochloromethane	1.2	UQ	1.2	1.2	12.2	ug/Kg
67-66-3	Chloroform	1.2	U	1.2	1.2	12.2	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.2	U	1.2	1.2	12.2	ug/Kg
108-87-2	Methylcyclohexane	1.2	U	1.2	1.2	12.2	ug/Kg
71-43-2	Benzene	1.2	U	0.93	1.2	12.2	ug/Kg
107-06-2	1,2-Dichloroethane	1.2	U	1.2	1.2	12.2	ug/Kg
79-01-6	Trichloroethene	1.2	U	1.2	1.2	12.2	ug/Kg
78-87-5	1,2-Dichloropropane	1.2	U	0.63	1.2	12.2	ug/Kg
75-27-4	Bromodichloromethane	1.2	U	1.2	1.2	12.2	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.1	U	6.1	6.1	60.9	ug/Kg
108-88-3	Toluene	1.2	U	1.2	1.2	12.2	ug/Kg
10061-02-6	t-1,3-Dichloropropene	1.2	U	1.2	1.2	12.2	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB-FD-1RE	SDG No.:	E4003
Lab Sample ID:	E4003-05RE	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	45.6
Sample Wt/Vol:	3.77 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039336.D	1		10/09/13	VD100913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	1.2	U	1.2	1.2	12.2	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.4	U	2.2	2.4	12.2	ug/Kg
591-78-6	2-Hexanone	6.1	U	6.1	6.1	60.9	ug/Kg
124-48-1	Dibromochloromethane	1.2	U	1.2	1.2	12.2	ug/Kg
106-93-4	1,2-Dibromoethane	1.2	U	1.2	1.2	12.2	ug/Kg
127-18-4	Tetrachloroethene	7.1	J	1.2	1.2	12.2	ug/Kg
108-90-7	Chlorobenzene	1.2	U	1.2	1.2	12.2	ug/Kg
100-41-4	Ethyl Benzene	1.2	U	1.2	1.2	12.2	ug/Kg
179601-23-1	m/p-Xylenes	2.4	U	1.8	2.4	24.4	ug/Kg
95-47-6	o-Xylene	1.2	U	1.2	1.2	12.2	ug/Kg
100-42-5	Styrene	1.2	U	1.1	1.2	12.2	ug/Kg
75-25-2	Bromoform	3.7	U	1.8	3.7	12.2	ug/Kg
98-82-8	Isopropylbenzene	1.2	U	1.2	1.2	12.2	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U	1.1	1.2	12.2	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.2	U	0.9	1.2	12.2	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.2	U	1	1.2	12.2	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.2	U	1.2	1.2	12.2	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	12.2	U	2.1	12.2	12.2	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.2	U	1.2	1.2	12.2	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.4	U	1.2	2.4	12.2	ug/Kg
123-91-1	1,4-Dioxane	240	U	240	240	240	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	40.7		56 - 120		81%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		57 - 135		103%	SPK: 50
2037-26-5	Toluene-d8	49.4		67 - 123		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	31.9		33 - 141		64%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	494248	6.5				
540-36-3	1,4-Difluorobenzene	554666	7.61				
3114-55-4	Chlorobenzene-d5	395264	11.8				
3855-82-1	1,4-Dichlorobenzene-d4	162355	14.16				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB-FD-1RE	SDG No.:	E4003
Lab Sample ID:	E4003-05RE	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	45.6
Sample Wt/Vol:	3.77 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039336.D	1		10/09/13	VD100913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

QC SUMMARY

Surrogate Summary

SDG No.: E4003

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
E4003-01	CB(0-2)	1,2-Dichloroethane-d4	50	47.44	95		56	120
		Dibromofluoromethane	50	52.69	105		57	135
		Toluene-d8	50	47.48	95		67	123
		4-Bromofluorobenzene	50	26.19	52		33	141
E4003-02MS	CB(0-2)MS	1,2-Dichloroethane-d4	50	48.03	96		55	158
		Dibromofluoromethane	50	52.56	105		53	156
		Toluene-d8	50	48.37	97		85	115
		4-Bromofluorobenzene	50	27.32	55	*	85	120
E4003-03MSD	CB(0-2)MSD	1,2-Dichloroethane-d4	50	48.14	96		55	158
		Dibromofluoromethane	50	52.23	104		53	156
		Toluene-d8	50	49.19	98		85	115
		4-Bromofluorobenzene	50	29.96	60	*	85	120
E4003-04	CB(10-12)	1,2-Dichloroethane-d4	50	40.43	81		56	120
		Dibromofluoromethane	50	49.04	98		57	135
		Toluene-d8	50	48.19	96		67	123
		4-Bromofluorobenzene	50	31.42	63		33	141
E4003-04RE	CB(10-12)RE	1,2-Dichloroethane-d4	50	42.75	86		56	120
		Dibromofluoromethane	50	49.89	100		57	135
		Toluene-d8	50	50.45	101		67	123
		4-Bromofluorobenzene	50	37.18	74		33	141
E4003-05	CB-FD-1	1,2-Dichloroethane-d4	50	41.44	83		56	120
		Dibromofluoromethane	50	53.5	107		57	135
		Toluene-d8	50	48.94	98		67	123
		4-Bromofluorobenzene	50	31.01	62		33	141
E4003-05RE	CB-FD-1RE	1,2-Dichloroethane-d4	50	40.74	81		56	120
		Dibromofluoromethane	50	51.59	103		57	135
		Toluene-d8	50	49.42	99		67	123
		4-Bromofluorobenzene	50	31.91	64		33	141
VD1007SBL01	VD1007SBL01	1,2-Dichloroethane-d4	50	49.92	100		55	158
		Dibromofluoromethane	50	51.33	103		53	156
		Toluene-d8	50	50.61	101		85	115
		4-Bromofluorobenzene	50	48.12	96		85	120
VD1007SBS01	VD1007SBS01	1,2-Dichloroethane-d4	50	53.23	106		55	158
		Dibromofluoromethane	50	50.46	101		53	156
		Toluene-d8	50	49.69	99		85	115
		4-Bromofluorobenzene	50	50.67	101		85	120
VD1008SBL02	VD1008SBL02	1,2-Dichloroethane-d4	50	50.67	101		55	158
		Dibromofluoromethane	50	52.92	106		53	156
		Toluene-d8	50	51.66	103		85	115
		4-Bromofluorobenzene	50	51.87	104		85	120
VD1008SBS02	VD1008SBS02	1,2-Dichloroethane-d4	50	50.55	101		55	158
		Dibromofluoromethane	50	51.67	103		53	156
		Toluene-d8	50	51.47	103		85	115
		4-Bromofluorobenzene	50	51.27	103		85	120
VD1009SBL01	VD1009SBL01	1,2-Dichloroethane-d4	50	42.38	85		55	158
		Dibromofluoromethane	50	47.1	94		53	156
		Toluene-d8	50	47.59	95		85	115
		4-Bromofluorobenzene	50	47.04	94		85	120
VD1009SBS01	VD1009SBS01	1,2-Dichloroethane-d4	50	47.08	94		55	158
		Dibromofluoromethane	50	55.1	110		53	156
		Toluene-d8	50	57.18	114		85	115
		4-Bromofluorobenzene	50	54.96	110		85	120

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: E4003

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : E4003-02MS	**Client Sample ID : CB(0-2)MS**							**Datafile :** VD039264.D			
Dichlorodifluoromethane	130	0	140	ug/Kg	108				35	135	
Chloromethane	130	0	130	ug/Kg	100				50	130	
Vinyl chloride	130	0	130	ug/Kg	100				60	125	
Bromomethane	130	0	110	ug/Kg	85				30	160	
Chloroethane	130	0	130	ug/Kg	100				40	155	
Trichlorofluoromethane	130	0	140	ug/Kg	108				25	185	
1,1,2-Trichlorotrifluoroethane	130	0	120	ug/Kg	92				63	141	
1,1-Dichloroethene	130	0	130	ug/Kg	100				65	135	
Acetone	640	0	410	ug/Kg	64				20	160	
Carbon disulfide	130	0	98.9	ug/Kg	76				45	160	
Methyl tert-butyl Ether	130	0	120	ug/Kg	92				70	131	
Methyl Acetate	130	0	280	ug/Kg	215	*			44	187	
Methylene Chloride	130	0	120	ug/Kg	92				55	140	
trans-1,2-Dichloroethene	130	0	120	ug/Kg	92				65	135	
1,1-Dichloroethane	130	0	140	ug/Kg	108				75	125	
Cyclohexane	130	0	99.8	ug/Kg	77				66	132	
2-Butanone	640	0	490	ug/Kg	77				30	160	
Carbon Tetrachloride	130	0	120	ug/Kg	92				65	135	
cis-1,2-Dichloroethene	130	0	120	ug/Kg	92				65	125	
Bromochloromethane	130	0	130	ug/Kg	100				70	125	
Chloroform	130	0	130	ug/Kg	100				70	125	
1,1,1-Trichloroethane	130	0	130	ug/Kg	100				70	135	
Methylcyclohexane	130	0	70.7	ug/Kg	54	*			71	124	
Benzene	130	0	140	ug/Kg	108				75	125	
1,2-Dichloroethane	130	0	120	ug/Kg	92				70	135	
Trichloroethene	130	0	120	ug/Kg	92				75	125	
1,2-Dichloropropane	130	0	130	ug/Kg	100				70	120	
Bromodichloromethane	130	0	110	ug/Kg	85				70	130	
4-Methyl-2-Pentanone	640	0	560	ug/Kg	88				45	145	
Toluene	130	0	120	ug/Kg	92				70	125	
t-1,3-Dichloropropene	130	0	100	ug/Kg	77				65	125	
cis-1,3-Dichloropropene	130	0	90.7	ug/Kg	70				70	125	
1,1,2-Trichloroethane	130	0	110	ug/Kg	85				60	125	
2-Hexanone	640	0	470	ug/Kg	73				45	145	
Dibromochloromethane	130	0	94.8	ug/Kg	73				65	130	
1,2-Dibromoethane	130	0	110	ug/Kg	85				70	125	
Tetrachloroethene	130	0	140	ug/Kg	108				65	140	
Chlorobenzene	130	0	130	ug/Kg	100				75	125	
Ethyl Benzene	130	0	140	ug/Kg	108				75	125	
m/p-Xylenes	250	0	260	ug/Kg	104				80	125	
o-Xylene	130	0	130	ug/Kg	100				75	125	
Styrene	130	0	110	ug/Kg	85				75	125	
Bromoform	130	0	100	ug/Kg	77				55	135	
Isopropylbenzene	130	0	210	ug/Kg	162	*			75	130	
1,1,2,2-Tetrachloroethane	130	0	220	ug/Kg	169	*			55	130	
1,3-Dichlorobenzene	130	0	130	ug/Kg	100				70	125	
1,4-Dichlorobenzene	130	0	130	ug/Kg	100				70	125	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: E4003

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	130	0	110	ug/Kg	85				75	120	
1,2-Dibromo-3-Chloropropane	130	0	170	ug/Kg	131				40	135	
1,2,4-Trichlorobenzene	130	0	55.6	ug/Kg	43	*			65	130	
1,2,3-Trichlorobenzene	130	0	46.8	ug/Kg	36	*			60	135	
1,4-Dioxane	2500	0	2500	ug/Kg	100				50	150	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: E4003

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : E4003-03MSD	**Client Sample ID : CB(0-2)MSD**						**Datafile :** VD039265.D				
Dichlorodifluoromethane	140	0	150	ug/Kg	107		1		35	135	20
Chloromethane	140	0	150	ug/Kg	107		7		50	130	20
Vinyl chloride	140	0	140	ug/Kg	100		0		60	125	20
Bromomethane	140	0	130	ug/Kg	93		9		30	160	20
Chloroethane	140	0	150	ug/Kg	107		7		40	155	20
Trichlorofluoromethane	140	0	150	ug/Kg	107		1		25	185	20
1,1,2-Trichlorotrifluoroethane	140	0	140	ug/Kg	100		8		63	141	20
1,1-Dichloroethene	140	0	140	ug/Kg	100		0		65	135	20
Acetone	720	0	490	ug/Kg	68		6		20	160	20
Carbon disulfide	140	0	110	ug/Kg	79		3		45	160	20
Methyl tert-butyl Ether	140	0	140	ug/Kg	100		8		70	131	20
Methyl Acetate	140	0	320	ug/Kg	229	*	6		44	187	20
Methylene Chloride	140	0	130	ug/Kg	93		1		55	140	20
trans-1,2-Dichloroethene	140	0	130	ug/Kg	93		1		65	135	20
1,1-Dichloroethane	140	0	150	ug/Kg	107		1		75	125	20
Cyclohexane	140	0	110	ug/Kg	79		2		66	132	20
2-Butanone	720	0	560	ug/Kg	78		2		30	160	20
Carbon Tetrachloride	140	0	140	ug/Kg	100		8		65	135	20
cis-1,2-Dichloroethene	140	0	140	ug/Kg	100		8		65	125	20
Bromochloromethane	140	0	140	ug/Kg	100		0		70	125	20
Chloroform	140	0	150	ug/Kg	107		7		70	125	20
1,1,1-Trichloroethane	140	0	150	ug/Kg	107		7		70	135	20
Methylcyclohexane	140	0	89.2	ug/Kg	64	*	16		71	124	20
Benzene	140	0	160	ug/Kg	114		6		75	125	20
1,2-Dichloroethane	140	0	140	ug/Kg	100		8		70	135	20
Trichloroethene	140	0	140	ug/Kg	100		8		75	125	20
1,2-Dichloropropane	140	0	150	ug/Kg	107		7		70	120	20
Bromodichloromethane	140	0	130	ug/Kg	93		9		70	130	20
4-Methyl-2-Pentanone	720	0	640	ug/Kg	89		2		45	145	20
Toluene	140	0	130	ug/Kg	93		1		70	125	20
t-1,3-Dichloropropene	140	0	110	ug/Kg	79		2		65	125	20
cis-1,3-Dichloropropene	140	0	110	ug/Kg	79		12		70	125	20
1,1,2-Trichloroethane	140	0	130	ug/Kg	93		9		60	125	20
2-Hexanone	720	0	530	ug/Kg	74		0		45	145	20
Dibromochloromethane	140	0	110	ug/Kg	79		7		65	130	20
1,2-Dibromoethane	140	0	110	ug/Kg	79		7		70	125	20
Tetrachloroethene	140	0	160	ug/Kg	114		6		65	140	20
Chlorobenzene	140	0	150	ug/Kg	107		7		75	125	20
Ethyl Benzene	140	0	150	ug/Kg	107		1		75	125	20
m/p-Xylenes	290	0	280	ug/Kg	97		7		80	125	20
o-Xylene	140	0	140	ug/Kg	100		0		75	125	20
Styrene	140	0	120	ug/Kg	86		1		75	125	20
Bromoform	140	0	110	ug/Kg	79		2		55	135	20
Isopropylbenzene	140	0	230	ug/Kg	164	*	2		75	130	20
1,1,2,2-Tetrachloroethane	140	0	210	ug/Kg	150	*	12		55	130	20
1,3-Dichlorobenzene	140	0	140	ug/Kg	100		0		70	125	20
1,4-Dichlorobenzene	140	0	140	ug/Kg	100		0		70	125	20

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: E4003

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	140	0	130	ug/Kg	93		9		75	120	20
1,2-Dibromo-3-Chloropropane	140	0	170	ug/Kg	121		7		40	135	20
1,2,4-Trichlorobenzene	140	0	60.1	ug/Kg	43	*	0		65	130	20
1,2,3-Trichlorobenzene	140	0	51.9	ug/Kg	37	*	3		60	135	20
1,4-Dioxane	2900	0	2800	ug/Kg	97		4		50	150	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E4003

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C **Datafile :** VD039250.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VD1007SBS01	Dichlorodifluoromethane	20	19.4	ug/Kg	97			35	135	
	Chloromethane	20	18.6	ug/Kg	93			50	130	
	Vinyl chloride	20	19.9	ug/Kg	100			60	125	
	Bromomethane	20	18.6	ug/Kg	93			30	160	
	Chloroethane	20	20.6	ug/Kg	103			40	155	
	Trichlorofluoromethane	20	20.8	ug/Kg	104			25	185	
	1,1,2-Trichlorotrifluoroethane	20	22.8	ug/Kg	114			73	133	
	1,1-Dichloroethene	20	24.1	ug/Kg	121			65	135	
	Acetone	100	100	ug/Kg	100			20	160	
	Carbon disulfide	20	23	ug/Kg	115			45	160	
	Methyl tert-butyl Ether	20	22.2	ug/Kg	111			70	131	
	Methyl Acetate	20	22.5	ug/Kg	113			44	187	
	Methylene Chloride	20	21.5	ug/Kg	108			55	140	
	trans-1,2-Dichloroethene	20	22.4	ug/Kg	112			65	135	
	1,1-Dichloroethane	20	19.6	ug/Kg	98			75	125	
	Cyclohexane	20	21.2	ug/Kg	106			66	132	
	2-Butanone	100	100	ug/Kg	100			30	160	
	Carbon Tetrachloride	20	18.4	ug/Kg	92			65	135	
	cis-1,2-Dichloroethene	20	19.5	ug/Kg	98			65	125	
	Bromochloromethane	20	20	ug/Kg	100			70	125	
	Chloroform	20	20.7	ug/Kg	104			70	125	
	1,1,1-Trichloroethane	20	20.4	ug/Kg	102			70	135	
	Methylcyclohexane	20	20	ug/Kg	100			71	124	
	Benzene	20	19	ug/Kg	95			75	125	
	1,2-Dichloroethane	20	18.3	ug/Kg	92			70	135	
	Trichloroethene	20	18.7	ug/Kg	94			75	125	
	1,2-Dichloropropane	20	19.6	ug/Kg	98			70	120	
	Bromodichloromethane	20	19.1	ug/Kg	96			70	130	
	4-Methyl-2-Pentanone	100	99.6	ug/Kg	100			45	145	
	Toluene	20	19.2	ug/Kg	96			70	125	
	t-1,3-Dichloropropene	20	19.3	ug/Kg	97			65	125	
	cis-1,3-Dichloropropene	20	19.6	ug/Kg	98			70	125	
	1,1,2-Trichloroethane	20	19.7	ug/Kg	99			60	125	
	2-Hexanone	100	93.2	ug/Kg	93			45	145	
	Dibromochloromethane	20	19.2	ug/Kg	96			65	130	
	1,2-Dibromoethane	20	18.6	ug/Kg	93			70	125	
	Tetrachloroethene	20	18.7	ug/Kg	94			65	140	
	Chlorobenzene	20	19.5	ug/Kg	98			75	125	
	Ethyl Benzene	20	19.5	ug/Kg	98			75	125	
	m/p-Xylenes	40	38.9	ug/Kg	97			80	125	
	o-Xylene	20	20.2	ug/Kg	101			75	125	
	Styrene	20	20.2	ug/Kg	101			75	125	
	Bromoform	20	20	ug/Kg	100			55	135	
	Isopropylbenzene	20	19.3	ug/Kg	97			75	130	
	1,1,2,2-Tetrachloroethane	20	20	ug/Kg	100			55	130	
	1,3-Dichlorobenzene	20	19.5	ug/Kg	98			70	125	
	1,4-Dichlorobenzene	20	19.9	ug/Kg	100			70	125	
	1,2-Dichlorobenzene	20	19.1	ug/Kg	96			75	120	
	1,2-Dibromo-3-Chloropropane	20	19.3	ug/Kg	97			40	135	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E4003

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C **Datafile :** VD039250.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VD1007SBS01	1,2,4-Trichlorobenzene	20	19.4	ug/Kg	97			65	130	
	1,2,3-Trichlorobenzene	20	19.7	ug/Kg	99			60	135	
	1,4-Dioxane	400	480	ug/Kg	120			50	150	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E4003

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C **Datafile :** VD039313.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VD1008SBS02	Dichlorodifluoromethane	20	19	ug/Kg	95			35	135	
	Chloromethane	20	19.8	ug/Kg	99			50	130	
	Vinyl chloride	20	17.7	ug/Kg	89			60	125	
	Bromomethane	20	21	ug/Kg	105			30	160	
	Chloroethane	20	19.3	ug/Kg	97			40	155	
	Trichlorofluoromethane	20	19	ug/Kg	95			25	185	
	1,1,2-Trichlorotrifluoroethane	20	18	ug/Kg	90			73	133	
	1,1-Dichloroethene	20	19.9	ug/Kg	100			65	135	
	Acetone	100	75.4	ug/Kg	75			20	160	
	Carbon disulfide	20	19.6	ug/Kg	98			45	160	
	Methyl tert-butyl Ether	20	19.8	ug/Kg	99			70	131	
	Methyl Acetate	20	21.7	ug/Kg	109			44	187	
	Methylene Chloride	20	20	ug/Kg	100			55	140	
	trans-1,2-Dichloroethene	20	20.6	ug/Kg	103			65	135	
	1,1-Dichloroethane	20	19.6	ug/Kg	98			75	125	
	Cyclohexane	20	20	ug/Kg	100			66	132	
	2-Butanone	100	99.9	ug/Kg	100			30	160	
	Carbon Tetrachloride	20	19	ug/Kg	95			65	135	
	cis-1,2-Dichloroethene	20	22.3	ug/Kg	112			65	125	
	Bromochloromethane	20	22.3	ug/Kg	112			70	125	
	Chloroform	20	21.1	ug/Kg	106			70	125	
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104			70	135	
	Methylcyclohexane	20	19.1	ug/Kg	96			71	124	
	Benzene	20	20.7	ug/Kg	104			75	125	
	1,2-Dichloroethane	20	19.2	ug/Kg	96			70	135	
	Trichloroethene	20	19.4	ug/Kg	97			75	125	
	1,2-Dichloropropane	20	21.5	ug/Kg	108			70	120	
	Bromodichloromethane	20	19	ug/Kg	95			70	130	
	4-Methyl-2-Pentanone	100	95.6	ug/Kg	96			45	145	
	Toluene	20	20.3	ug/Kg	102			70	125	
	t-1,3-Dichloropropene	20	18.9	ug/Kg	95			65	125	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			70	125	
	1,1,2-Trichloroethane	20	20	ug/Kg	100			60	125	
	2-Hexanone	100	95.5	ug/Kg	96			45	145	
	Dibromochloromethane	20	18.9	ug/Kg	95			65	130	
	1,2-Dibromoethane	20	19.8	ug/Kg	99			70	125	
	Tetrachloroethene	20	19.7	ug/Kg	99			65	140	
	Chlorobenzene	20	21	ug/Kg	105			75	125	
	Ethyl Benzene	20	20.9	ug/Kg	104			75	125	
	m/p-Xylenes	40	43.8	ug/Kg	110			80	125	
	o-Xylene	20	21.3	ug/Kg	106			75	125	
	Styrene	20	21.3	ug/Kg	106			75	125	
	Bromoform	20	19	ug/Kg	95			55	135	
	Isopropylbenzene	20	20.5	ug/Kg	103			75	130	
	1,1,2,2-Tetrachloroethane	20	21.1	ug/Kg	106			55	130	
	1,3-Dichlorobenzene	20	20.7	ug/Kg	104			70	125	
	1,4-Dichlorobenzene	20	20.8	ug/Kg	104			70	125	
	1,2-Dichlorobenzene	20	20.4	ug/Kg	102			75	120	
	1,2-Dibromo-3-Chloropropane	20	19.7	ug/Kg	99			40	135	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E4003

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C **Datafile :** VD039313.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VD1008SBS02	1,2,4-Trichlorobenzene	20	19.9	ug/Kg	100			65	130	
	1,2,3-Trichlorobenzene	20	21.1	ug/Kg	106			60	135	
	1,4-Dioxane	400	400	ug/Kg	100			50	150	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E4003

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C **Datafile :** VD039333.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VD1009SBS01	Dichlorodifluoromethane	20	17.9	ug/Kg	90			35	135	
	Chloromethane	20	13.6	ug/Kg	68			50	130	
	Vinyl chloride	20	14.7	ug/Kg	74			60	125	
	Bromomethane	20	15.2	ug/Kg	76			30	160	
	Chloroethane	20	13.9	ug/Kg	70			40	155	
	Trichlorofluoromethane	20	16.5	ug/Kg	83			25	185	
	1,1,2-Trichlorotrifluoroethane	20	17.4	ug/Kg	87			73	133	
	1,1-Dichloroethene	20	16.4	ug/Kg	82			65	135	
	Acetone	100	60.2	ug/Kg	60			20	160	
	Carbon disulfide	20	15.9	ug/Kg	79			45	160	
	Methyl tert-butyl Ether	20	14	ug/Kg	70			70	131	
	Methyl Acetate	20	11.7	ug/Kg	58			44	187	
	Methylene Chloride	20	14.4	ug/Kg	72			55	140	
	trans-1,2-Dichloroethene	20	16.9	ug/Kg	85			65	135	
	1,1-Dichloroethane	20	15.2	ug/Kg	76			75	125	
	Cyclohexane	20	17.3	ug/Kg	86			66	132	
	2-Butanone	100	68.9	ug/Kg	69			30	160	
	Carbon Tetrachloride	20	16.6	ug/Kg	83			65	135	
	cis-1,2-Dichloroethene	20	15.7	ug/Kg	79			65	125	
	Bromochloromethane	20	13.4	ug/Kg	67		*	70	125	
	Chloroform	20	15.9	ug/Kg	79			70	125	
	1,1,1-Trichloroethane	20	15.7	ug/Kg	79			70	135	
	Methylcyclohexane	20	17.1	ug/Kg	86			71	124	
	Benzene	20	18.2	ug/Kg	91			75	125	
	1,2-Dichloroethane	20	15	ug/Kg	75			70	135	
	Trichloroethene	20	17.9	ug/Kg	90			75	125	
	1,2-Dichloropropane	20	17.1	ug/Kg	86			70	120	
	Bromodichloromethane	20	15.8	ug/Kg	79			70	130	
	4-Methyl-2-Pentanone	100	74.9	ug/Kg	75			45	145	
	Toluene	20	17.1	ug/Kg	86			70	125	
	t-1,3-Dichloropropene	20	15.8	ug/Kg	79			65	125	
	cis-1,3-Dichloropropene	20	15.7	ug/Kg	79			70	125	
	1,1,2-Trichloroethane	20	14.2	ug/Kg	71			60	125	
	2-Hexanone	100	74.3	ug/Kg	74			45	145	
	Dibromochloromethane	20	14.8	ug/Kg	74			65	130	
	1,2-Dibromoethane	20	15.3	ug/Kg	77			70	125	
	Tetrachloroethene	20	20	ug/Kg	100			65	140	
	Chlorobenzene	20	18.9	ug/Kg	95			75	125	
	Ethyl Benzene	20	19	ug/Kg	95			75	125	
	m/p-Xylenes	40	39.7	ug/Kg	99			80	125	
	o-Xylene	20	19.6	ug/Kg	98			75	125	
	Styrene	20	18.3	ug/Kg	92			75	125	
	Bromoform	20	14.6	ug/Kg	73			55	135	
	Isopropylbenzene	20	18.2	ug/Kg	91			75	130	
	1,1,2,2-Tetrachloroethane	20	15.6	ug/Kg	78			55	130	
	1,3-Dichlorobenzene	20	19.1	ug/Kg	96			70	125	
	1,4-Dichlorobenzene	20	19.2	ug/Kg	96			70	125	
	1,2-Dichlorobenzene	20	18.2	ug/Kg	91			75	120	
	1,2-Dibromo-3-Chloropropane	20	14.5	ug/Kg	73			40	135	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E4003

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C **Datafile :** VD039333.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VD1009SBS01	1,2,4-Trichlorobenzene	20	18.2	ug/Kg	91			65	130	
	1,2,3-Trichlorobenzene	20	18	ug/Kg	90			60	135	
	1,4-Dioxane	400	300	ug/Kg	75			50	150	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VD1007SBL01

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG NO.: E4003

Lab File ID: VD039249.D Lab Sample ID: VD1007SBL01

Date Analyzed: 10/07/2013 Time Analyzed: 14:11

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VD1007SBS01	VD1007SBS01	VD039250.D	10/07/2013
CB(0-2)	E4003-01	VD039263.D	10/07/2013
CB(0-2)MS	E4003-02MS	VD039264.D	10/07/2013
CB(0-2)MSD	E4003-03MSD	VD039265.D	10/07/2013

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VD1008SBL02

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG NO.: E4003

Lab File ID: VD039312.D Lab Sample ID: VD1008SBL02

Date Analyzed: 10/09/2013 Time Analyzed: 00:04

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VD1008SBS02	VD1008SBS02	VD039313.D	10/09/2013
CB(10-12)	E4003-04	VD039319.D	10/09/2013
CB-FD-1	E4003-05	VD039320.D	10/09/2013

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VD1009SBL01

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG NO.: E4003

Lab File ID: VD039332.D Lab Sample ID: VD1009SBL01

Date Analyzed: 10/09/2013 Time Analyzed: 10:11

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VD1009SBS01	VD1009SBS01	VD039333.D	10/09/2013
CB(10-12)RE	E4003-04RE	VD039335.D	10/09/2013
CB-FD-1RE	E4003-05RE	VD039336.D	10/09/2013

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG NO.: E4003

Lab File ID: VD039241.D BFB Injection Date: 10/07/2013

Instrument ID: MSVOA_D BFB Injection Time: 10:03

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.3
75	30.0 - 60.0% of mass 95	57.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	5.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	77.9
175	5.0 - 9.0% of mass 174	6 (7.6) 1
176	95.0 - 101.0% of mass 174	76.4 (98.2) 1
177	5.0 - 9.0% of mass 176	5.2 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VD039242.D	10/07/2013	10:41
VSTDICC010	VSTDICC010	VD039243.D	10/07/2013	11:08
VSTDICC020	VSTDICC020	VD039244.D	10/07/2013	11:34
VSTDICCC050	VSTDICCC050	VD039245.D	10/07/2013	12:01
VSTDICC100	VSTDICC100	VD039246.D	10/07/2013	12:28
VSTDICC200	VSTDICC200	VD039247.D	10/07/2013	12:55
VD1007SBL01	VD1007SBL01	VD039249.D	10/07/2013	14:11
VD1007SBS01	VD1007SBS01	VD039250.D	10/07/2013	14:44
CB(0-2)	E4003-01	VD039263.D	10/07/2013	20:35
CB(0-2)MS	E4003-02MS	VD039264.D	10/07/2013	21:02
CB(0-2)MSD	E4003-03MSD	VD039265.D	10/07/2013	21:28

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG NO.: E4003

Lab File ID: VD039310.D BFB Injection Date: 10/08/2013

Instrument ID: MSVOA_D BFB Injection Time: 22:15

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	83
175	5.0 - 9.0% of mass 174	4.9 (5.9) 1
176	95.0 - 101.0% of mass 174	80.8 (97.4) 1
177	5.0 - 9.0% of mass 176	5.3 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VD039311.D	10/08/2013	23:09
VD1008SBL02	VD1008SBL02	VD039312.D	10/09/2013	00:04
VD1008SBS02	VD1008SBS02	VD039313.D	10/09/2013	00:31
CB(10-12)	E4003-04	VD039319.D	10/09/2013	03:13
CB-FD-1	E4003-05	VD039320.D	10/09/2013	03:40

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG NO.: E4003

Lab File ID: VD039330.D BFB Injection Date: 10/09/2013

Instrument ID: MSVOA_D BFB Injection Time: 08:46

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.1
75	30.0 - 60.0% of mass 95	59.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	76.7
175	5.0 - 9.0% of mass 174	5.1 (6.7) 1
176	95.0 - 101.0% of mass 174	74.7 (97.4) 1
177	5.0 - 9.0% of mass 176	5.7 (7.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VD039331.D	10/09/2013	09:29
VD1009SBL01	VD1009SBL01	VD039332.D	10/09/2013	10:11
VD1009SBS01	VD1009SBS01	VD039333.D	10/09/2013	11:22
CB(10-12)RE	E4003-04RE	VD039335.D	10/09/2013	12:16
CB-FD-1RE	E4003-05RE	VD039336.D	10/09/2013	12:43

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG NO.: E4003

Lab File ID: VD039245.D Date Analyzed: 10/07/2013

Instrument ID: MSVOA_D Time Analyzed: 12:01

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	538138	6.54	690224	7.65	648499	11.83
UPPER LIMIT	1076280	7.04	1380450	8.15	1297000	12.33
LOWER LIMIT	269069	6.04	345112	7.15	324250	11.33
EPA SAMPLE NO.						
CB(0-2)	506203	6.54	588591	7.65	406386	11.83
CB(0-2)MS	485268	6.53	577524	7.65	404458	11.83
CB(0-2)MSD	504717	6.53	594414	7.65	426378	11.83
VD1007SBL01	604230	6.55	756843	7.66	689037	11.84
VD1007SBS01	551013	6.55	733023	7.66	670504	11.84

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG NO.: E4003

Lab File ID: VD039245.D Date Analyzed: 10/07/2013

Instrument ID: MSVOA_D Time Analyzed: 12:01

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #		RT #				
12 HOUR STD	362890		14.19				
UPPER LIMIT	725780		14.69				
LOWER LIMIT	181445		13.69				
EPA SAMPLE NO.							
CB(0-2)	138699	*	14.19				
CB(0-2)MS	119240	*	14.18				
CB(0-2)MSD	140422	*	14.19				
VD1007SBL01	443188		14.19				
VD1007SBS01	410074		14.19				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG NO.: E4003

Lab File ID: VD039311.D Date Analyzed: 10/08/2013

Instrument ID: MSVOA_D Time Analyzed: 23:09

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	596568	6.51	792202	7.63	741599	11.81
UPPER LIMIT	1193140	7.01	1584400	8.13	1483200	12.31
LOWER LIMIT	298284	6.01	396101	7.13	370800	11.31
EPA SAMPLE NO.						
CB(10-12)	579202	6.51	671820	7.63	520606	11.80
CB-FD-1	607978	6.50	677374	7.62	512836	11.81
VD1008SBL02	612535	6.51	783629	7.62	743384	11.80
VD1008SBS02	569112	6.50	743728	7.62	706242	11.80

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG NO.: E4003

Lab File ID: VD039311.D Date Analyzed: 10/08/2013

Instrument ID: MSVOA_D Time Analyzed: 23:09

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #		RT #				
12 HOUR STD	437077		14.16				
UPPER LIMIT	874154		14.66				
LOWER LIMIT	218539		13.66				
EPA SAMPLE NO.							
CB(10-12)	187992	*	14.16				
CB-FD-1	194846	*	14.17				
VD1008SBL02	492013		14.17				
VD1008SBS02	416964		14.17				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG NO.: E4003

Lab File ID: VD039331.D Date Analyzed: 10/09/2013

Instrument ID: MSVOA_D Time Analyzed: 09:29

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	576190	6.49	743656	7.61	711736	11.80
UPPER LIMIT	1152380	6.99	1487310	8.11	1423470	12.3
LOWER LIMIT	288095	5.99	371828	7.11	355868	11.3
EPA SAMPLE NO.						
CB(10-12)RE	519263	6.50	591632	7.62	499508	11.80
CB-FD-1RE	494248	6.50	554666	7.61	395264	11.80
VD1009SBL01	531437	6.49	645520	7.61	597194	11.80
VD1009SBS01	616615	6.50	725294	7.61	659628	11.80

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG NO.: E4003

Lab File ID: VD039331.D Date Analyzed: 10/09/2013

Instrument ID: MSVOA_D Time Analyzed: 09:29

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #		RT #				
12 HOUR STD	413066		14.16				
UPPER LIMIT	826132		14.66				
LOWER LIMIT	206533		13.66				
EPA SAMPLE NO.							
CB(10-12)RE	188704	*	14.17				
CB-FD-1RE	162355	*	14.16				
VD1009SBL01	399467		14.16				
VD1009SBS01	415103		14.16				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1007SBL01	SDG No.:	E4003
Lab Sample ID:	VD1007SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039249.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.5	0.5	5	ug/Kg
74-87-3	Chloromethane	0.5	U	0.5	0.5	5	ug/Kg
75-01-4	Vinyl Chloride	0.5	U	0.5	0.5	5	ug/Kg
74-83-9	Bromomethane	1	U	1	1	5	ug/Kg
75-00-3	Chloroethane	0.5	U	0.5	0.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	0.5	U	0.5	0.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.5	0.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
67-64-1	Acetone	2.5	U	2.5	2.5	25	ug/Kg
75-15-0	Carbon Disulfide	0.5	U	0.5	0.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.5	0.5	5	ug/Kg
79-20-9	Methyl Acetate	1	U	1	1	5	ug/Kg
75-09-2	Methylene Chloride	0.5	U	0.5	0.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	0.5	U	0.5	0.5	5	ug/Kg
110-82-7	Cyclohexane	0.5	U	0.5	0.5	5	ug/Kg
78-93-3	2-Butanone	7.5	U	3.1	7.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	0.5	U	0.5	0.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
74-97-5	Bromochloromethane	0.5	U	0.5	0.5	5	ug/Kg
67-66-3	Chloroform	0.5	U	0.5	0.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.5	U	0.5	0.5	5	ug/Kg
108-87-2	Methylcyclohexane	0.5	U	0.5	0.5	5	ug/Kg
71-43-2	Benzene	0.5	U	0.38	0.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	0.5	U	0.5	0.5	5	ug/Kg
79-01-6	Trichloroethene	0.5	U	0.5	0.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	0.5	U	0.26	0.5	5	ug/Kg
75-27-4	Bromodichloromethane	0.5	U	0.5	0.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5	25	ug/Kg
108-88-3	Toluene	0.5	U	0.5	0.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.5	0.5	5	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1007SBL01	SDG No.:	E4003
Lab Sample ID:	VD1007SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039249.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.5	0.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	1	U	0.9	1	5	ug/Kg
591-78-6	2-Hexanone	2.5	U	2.5	2.5	25	ug/Kg
124-48-1	Dibromochloromethane	0.5	U	0.5	0.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	0.5	U	0.5	0.5	5	ug/Kg
127-18-4	Tetrachloroethene	0.5	U	0.5	0.5	5	ug/Kg
108-90-7	Chlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
100-41-4	Ethyl Benzene	0.5	U	0.5	0.5	5	ug/Kg
179601-23-1	m/p-Xylenes	1	U	0.72	1	10	ug/Kg
95-47-6	o-Xylene	0.5	U	0.5	0.5	5	ug/Kg
100-42-5	Styrene	0.5	U	0.45	0.5	5	ug/Kg
75-25-2	Bromoform	1.5	U	0.74	1.5	5	ug/Kg
98-82-8	Isopropylbenzene	0.5	U	0.48	0.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.46	0.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.5	U	0.37	0.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.5	U	0.41	0.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5	U	0.87	5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1	U	0.5	1	5	ug/Kg
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.9		55 - 158		100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		53 - 156		103%	SPK: 50
2037-26-5	Toluene-d8	50.6		85 - 115		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		85 - 120		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	604230	6.55				
540-36-3	1,4-Difluorobenzene	756843	7.66				
3114-55-4	Chlorobenzene-d5	689037	11.84				
3855-82-1	1,4-Dichlorobenzene-d4	443188	14.19				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1007SBL01	SDG No.:	E4003
Lab Sample ID:	VD1007SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039249.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1008SBL02	SDG No.:	E4003
Lab Sample ID:	VD1008SBL02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039312.D	1		10/09/13	VD100813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.5	0.5	5	ug/Kg
74-87-3	Chloromethane	0.5	U	0.5	0.5	5	ug/Kg
75-01-4	Vinyl Chloride	0.5	U	0.5	0.5	5	ug/Kg
74-83-9	Bromomethane	1	U	1	1	5	ug/Kg
75-00-3	Chloroethane	0.5	U	0.5	0.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	0.5	U	0.5	0.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.5	0.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
67-64-1	Acetone	2.5	U	2.5	2.5	25	ug/Kg
75-15-0	Carbon Disulfide	0.5	U	0.5	0.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.5	0.5	5	ug/Kg
79-20-9	Methyl Acetate	1	U	1	1	5	ug/Kg
75-09-2	Methylene Chloride	1.8	J	0.5	0.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	0.5	U	0.5	0.5	5	ug/Kg
110-82-7	Cyclohexane	0.5	U	0.5	0.5	5	ug/Kg
78-93-3	2-Butanone	7.5	U	3.1	7.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	0.5	U	0.5	0.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
74-97-5	Bromochloromethane	0.5	U	0.5	0.5	5	ug/Kg
67-66-3	Chloroform	0.5	U	0.5	0.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.5	U	0.5	0.5	5	ug/Kg
108-87-2	Methylcyclohexane	0.5	U	0.5	0.5	5	ug/Kg
71-43-2	Benzene	0.5	U	0.38	0.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	0.5	U	0.5	0.5	5	ug/Kg
79-01-6	Trichloroethene	0.5	U	0.5	0.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	0.5	U	0.26	0.5	5	ug/Kg
75-27-4	Bromodichloromethane	0.5	U	0.5	0.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5	25	ug/Kg
108-88-3	Toluene	0.5	U	0.5	0.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.5	0.5	5	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1008SBL02	SDG No.:	E4003
Lab Sample ID:	VD1008SBL02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039312.D	1		10/09/13	VD100813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.5	0.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	1	U	0.9	1	5	ug/Kg
591-78-6	2-Hexanone	2.5	U	2.5	2.5	25	ug/Kg
124-48-1	Dibromochloromethane	0.5	U	0.5	0.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	0.5	U	0.5	0.5	5	ug/Kg
127-18-4	Tetrachloroethene	0.5	U	0.5	0.5	5	ug/Kg
108-90-7	Chlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
100-41-4	Ethyl Benzene	0.5	U	0.5	0.5	5	ug/Kg
179601-23-1	m/p-Xylenes	1	U	0.72	1	10	ug/Kg
95-47-6	o-Xylene	0.5	U	0.5	0.5	5	ug/Kg
100-42-5	Styrene	0.5	U	0.45	0.5	5	ug/Kg
75-25-2	Bromoform	1.5	U	0.74	1.5	5	ug/Kg
98-82-8	Isopropylbenzene	0.5	U	0.48	0.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.46	0.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.5	U	0.37	0.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.5	U	0.41	0.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5	U	0.87	5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1	U	0.5	1	5	ug/Kg
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.7		55 - 158		101%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		53 - 156		106%	SPK: 50
2037-26-5	Toluene-d8	51.7		85 - 115		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		85 - 120		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	612535	6.51				
540-36-3	1,4-Difluorobenzene	783629	7.62				
3114-55-4	Chlorobenzene-d5	743384	11.8				
3855-82-1	1,4-Dichlorobenzene-d4	492013	14.17				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1008SBL02	SDG No.:	E4003
Lab Sample ID:	VD1008SBL02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039312.D	1		10/09/13	VD100813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
000075-37-6	Ethane, 1,1-difluoro-	19	J			1.27	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1009SBL01	SDG No.:	E4003
Lab Sample ID:	VD1009SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039332.D	1		10/09/13	VD100913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.5	0.5	5	ug/Kg
74-87-3	Chloromethane	0.5	U	0.5	0.5	5	ug/Kg
75-01-4	Vinyl Chloride	0.5	U	0.5	0.5	5	ug/Kg
74-83-9	Bromomethane	1	U	1	1	5	ug/Kg
75-00-3	Chloroethane	0.5	U	0.5	0.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	0.5	U	0.5	0.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.5	0.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
67-64-1	Acetone	2.5	U	2.5	2.5	25	ug/Kg
75-15-0	Carbon Disulfide	0.5	U	0.5	0.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.5	0.5	5	ug/Kg
79-20-9	Methyl Acetate	1	U	1	1	5	ug/Kg
75-09-2	Methylene Chloride	0.5	U	0.5	0.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	0.5	U	0.5	0.5	5	ug/Kg
110-82-7	Cyclohexane	0.5	U	0.5	0.5	5	ug/Kg
78-93-3	2-Butanone	7.5	U	3.1	7.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	0.5	U	0.5	0.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
74-97-5	Bromochloromethane	0.5	U	0.5	0.5	5	ug/Kg
67-66-3	Chloroform	0.5	U	0.5	0.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.5	U	0.5	0.5	5	ug/Kg
108-87-2	Methylcyclohexane	0.5	U	0.5	0.5	5	ug/Kg
71-43-2	Benzene	0.5	U	0.38	0.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	0.5	U	0.5	0.5	5	ug/Kg
79-01-6	Trichloroethene	0.5	U	0.5	0.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	0.5	U	0.26	0.5	5	ug/Kg
75-27-4	Bromodichloromethane	0.5	U	0.5	0.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5	25	ug/Kg
108-88-3	Toluene	0.5	U	0.5	0.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.5	0.5	5	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1009SBL01	SDG No.:	E4003
Lab Sample ID:	VD1009SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039332.D	1		10/09/13	VD100913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.5	0.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	1	U	0.9	1	5	ug/Kg
591-78-6	2-Hexanone	2.5	U	2.5	2.5	25	ug/Kg
124-48-1	Dibromochloromethane	0.5	U	0.5	0.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	0.5	U	0.5	0.5	5	ug/Kg
127-18-4	Tetrachloroethene	0.5	U	0.5	0.5	5	ug/Kg
108-90-7	Chlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
100-41-4	Ethyl Benzene	0.5	U	0.5	0.5	5	ug/Kg
179601-23-1	m/p-Xylenes	1	U	0.72	1	10	ug/Kg
95-47-6	o-Xylene	0.5	U	0.5	0.5	5	ug/Kg
100-42-5	Styrene	0.5	U	0.45	0.5	5	ug/Kg
75-25-2	Bromoform	1.5	U	0.74	1.5	5	ug/Kg
98-82-8	Isopropylbenzene	0.5	U	0.48	0.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.46	0.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.5	U	0.37	0.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.5	U	0.41	0.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5	U	0.87	5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1	U	0.5	1	5	ug/Kg
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.4		55 - 158		85%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		53 - 156		94%	SPK: 50
2037-26-5	Toluene-d8	47.6		85 - 115		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	47		85 - 120		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	531437	6.49				
540-36-3	1,4-Difluorobenzene	645520	7.61				
3114-55-4	Chlorobenzene-d5	597194	11.8				
3855-82-1	1,4-Dichlorobenzene-d4	399467	14.16				
TENTATIVE IDENTIFIED COMPOUNDS							

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1009SBL01	SDG No.:	E4003
Lab Sample ID:	VD1009SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039332.D	1		10/09/13	VD100913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
001066-40-6	Silanol, trimethyl-	5	J			5.58	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1007SBS01	SDG No.:	E4003
Lab Sample ID:	VD1007SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039250.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19.4		0.5	0.5	5	ug/Kg
74-87-3	Chloromethane	18.6		0.5	0.5	5	ug/Kg
75-01-4	Vinyl Chloride	19.9		0.5	0.5	5	ug/Kg
74-83-9	Bromomethane	18.6		1	1	5	ug/Kg
75-00-3	Chloroethane	20.6		0.5	0.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	20.8		0.5	0.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	22.8		0.5	0.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	24.1		0.5	0.5	5	ug/Kg
67-64-1	Acetone	100		2.5	2.5	25	ug/Kg
75-15-0	Carbon Disulfide	23		0.5	0.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.2		0.5	0.5	5	ug/Kg
79-20-9	Methyl Acetate	22.5		1	1	5	ug/Kg
75-09-2	Methylene Chloride	21.5		0.5	0.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	22.4		0.5	0.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	19.6		0.5	0.5	5	ug/Kg
110-82-7	Cyclohexane	21.2		0.5	0.5	5	ug/Kg
78-93-3	2-Butanone	100		3.1	7.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	18.4		0.5	0.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.5		0.5	0.5	5	ug/Kg
74-97-5	Bromochloromethane	20		0.5	0.5	5	ug/Kg
67-66-3	Chloroform	20.7		0.5	0.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.4		0.5	0.5	5	ug/Kg
108-87-2	Methylcyclohexane	20		0.5	0.5	5	ug/Kg
71-43-2	Benzene	19		0.38	0.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	18.3		0.5	0.5	5	ug/Kg
79-01-6	Trichloroethene	18.7		0.5	0.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	19.6		0.26	0.5	5	ug/Kg
75-27-4	Bromodichloromethane	19.1		0.5	0.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	99.6		2.5	2.5	25	ug/Kg
108-88-3	Toluene	19.2		0.5	0.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.3		0.5	0.5	5	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1007SBS01	SDG No.:	E4003
Lab Sample ID:	VD1007SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039250.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	19.6		0.5	0.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.7		0.9	1	5	ug/Kg
591-78-6	2-Hexanone	93.2		2.5	2.5	25	ug/Kg
124-48-1	Dibromochloromethane	19.2		0.5	0.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	18.6		0.5	0.5	5	ug/Kg
127-18-4	Tetrachloroethene	18.7		0.5	0.5	5	ug/Kg
108-90-7	Chlorobenzene	19.5		0.5	0.5	5	ug/Kg
100-41-4	Ethyl Benzene	19.5		0.5	0.5	5	ug/Kg
179601-23-1	m/p-Xylenes	38.9		0.72	1	10	ug/Kg
95-47-6	o-Xylene	20.2		0.5	0.5	5	ug/Kg
100-42-5	Styrene	20.2		0.45	0.5	5	ug/Kg
75-25-2	Bromoform	20		0.74	1.5	5	ug/Kg
98-82-8	Isopropylbenzene	19.3		0.48	0.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20		0.46	0.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.5		0.37	0.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.9		0.41	0.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.1		0.5	0.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.3		0.87	5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.4		0.5	0.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.7		0.5	1	5	ug/Kg
123-91-1	1,4-Dioxane	480		100	100	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		55 - 158		106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		53 - 156		101%	SPK: 50
2037-26-5	Toluene-d8	49.7		85 - 115		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		85 - 120		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	551013	6.55				
540-36-3	1,4-Difluorobenzene	733023	7.66				
3114-55-4	Chlorobenzene-d5	670504	11.84				
3855-82-1	1,4-Dichlorobenzene-d4	410074	14.19				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1007SBS01	SDG No.:	E4003
Lab Sample ID:	VD1007SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039250.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1008SBS02	SDG No.:	E4003
Lab Sample ID:	VD1008SBS02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039313.D	1		10/09/13	VD100813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19		0.5	0.5	5	ug/Kg
74-87-3	Chloromethane	19.8		0.5	0.5	5	ug/Kg
75-01-4	Vinyl Chloride	17.7		0.5	0.5	5	ug/Kg
74-83-9	Bromomethane	21		1	1	5	ug/Kg
75-00-3	Chloroethane	19.3		0.5	0.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	19		0.5	0.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	18		0.5	0.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	19.9		0.5	0.5	5	ug/Kg
67-64-1	Acetone	75.4		2.5	2.5	25	ug/Kg
75-15-0	Carbon Disulfide	19.6		0.5	0.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.8		0.5	0.5	5	ug/Kg
79-20-9	Methyl Acetate	21.7		1	1	5	ug/Kg
75-09-2	Methylene Chloride	20		0.5	0.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.6		0.5	0.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	19.6		0.5	0.5	5	ug/Kg
110-82-7	Cyclohexane	20		0.5	0.5	5	ug/Kg
78-93-3	2-Butanone	99.9		3.1	7.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	19		0.5	0.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	22.3		0.5	0.5	5	ug/Kg
74-97-5	Bromochloromethane	22.3		0.5	0.5	5	ug/Kg
67-66-3	Chloroform	21.1		0.5	0.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.7		0.5	0.5	5	ug/Kg
108-87-2	Methylcyclohexane	19.1		0.5	0.5	5	ug/Kg
71-43-2	Benzene	20.7		0.38	0.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	19.2		0.5	0.5	5	ug/Kg
79-01-6	Trichloroethene	19.4		0.5	0.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	21.5		0.26	0.5	5	ug/Kg
75-27-4	Bromodichloromethane	19		0.5	0.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	95.6		2.5	2.5	25	ug/Kg
108-88-3	Toluene	20.3		0.5	0.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	18.9		0.5	0.5	5	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1008SBS02	SDG No.:	E4003
Lab Sample ID:	VD1008SBS02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039313.D	1		10/09/13	VD100813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	19.3		0.5	0.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	20		0.9	1	5	ug/Kg
591-78-6	2-Hexanone	95.5		2.5	2.5	25	ug/Kg
124-48-1	Dibromochloromethane	18.9		0.5	0.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	19.8		0.5	0.5	5	ug/Kg
127-18-4	Tetrachloroethene	19.7		0.5	0.5	5	ug/Kg
108-90-7	Chlorobenzene	21		0.5	0.5	5	ug/Kg
100-41-4	Ethyl Benzene	20.9		0.5	0.5	5	ug/Kg
179601-23-1	m/p-Xylenes	43.8		0.72	1	10	ug/Kg
95-47-6	o-Xylene	21.3		0.5	0.5	5	ug/Kg
100-42-5	Styrene	21.3		0.45	0.5	5	ug/Kg
75-25-2	Bromoform	19		0.74	1.5	5	ug/Kg
98-82-8	Isopropylbenzene	20.5		0.48	0.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.1		0.46	0.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.7		0.37	0.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.8		0.41	0.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.4		0.5	0.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		0.87	5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.9		0.5	0.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.1		0.5	1	5	ug/Kg
123-91-1	1,4-Dioxane	400		100	100	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.6		55 - 158		101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		53 - 156		103%	SPK: 50
2037-26-5	Toluene-d8	51.5		85 - 115		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		85 - 120		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	569112	6.5				
540-36-3	1,4-Difluorobenzene	743728	7.62				
3114-55-4	Chlorobenzene-d5	706242	11.8				
3855-82-1	1,4-Dichlorobenzene-d4	416964	14.17				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1008SBS02	SDG No.:	E4003
Lab Sample ID:	VD1008SBS02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039313.D	1		10/09/13	VD100813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1009SBS01	SDG No.:	E4003
Lab Sample ID:	VD1009SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039333.D	1		10/09/13	VD100913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	17.9		0.5	0.5	5	ug/Kg
74-87-3	Chloromethane	13.6		0.5	0.5	5	ug/Kg
75-01-4	Vinyl Chloride	14.7		0.5	0.5	5	ug/Kg
74-83-9	Bromomethane	15.2		1	1	5	ug/Kg
75-00-3	Chloroethane	13.9		0.5	0.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	16.5		0.5	0.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	17.4		0.5	0.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	16.4		0.5	0.5	5	ug/Kg
67-64-1	Acetone	60.2		2.5	2.5	25	ug/Kg
75-15-0	Carbon Disulfide	15.9		0.5	0.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	14		0.5	0.5	5	ug/Kg
79-20-9	Methyl Acetate	11.7		1	1	5	ug/Kg
75-09-2	Methylene Chloride	14.4		0.5	0.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	16.9		0.5	0.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	15.2		0.5	0.5	5	ug/Kg
110-82-7	Cyclohexane	17.3		0.5	0.5	5	ug/Kg
78-93-3	2-Butanone	68.9		3.1	7.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	16.6		0.5	0.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	15.7		0.5	0.5	5	ug/Kg
74-97-5	Bromochloromethane	13.4		0.5	0.5	5	ug/Kg
67-66-3	Chloroform	15.9		0.5	0.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	15.7		0.5	0.5	5	ug/Kg
108-87-2	Methylcyclohexane	17.1		0.5	0.5	5	ug/Kg
71-43-2	Benzene	18.2		0.38	0.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	15		0.5	0.5	5	ug/Kg
79-01-6	Trichloroethene	17.9		0.5	0.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	17.1		0.26	0.5	5	ug/Kg
75-27-4	Bromodichloromethane	15.8		0.5	0.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	74.9		2.5	2.5	25	ug/Kg
108-88-3	Toluene	17.1		0.5	0.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	15.8		0.5	0.5	5	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1009SBS01	SDG No.:	E4003
Lab Sample ID:	VD1009SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039333.D	1		10/09/13	VD100913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	15.7		0.5	0.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	14.2		0.9	1	5	ug/Kg
591-78-6	2-Hexanone	74.3		2.5	2.5	25	ug/Kg
124-48-1	Dibromochloromethane	14.8		0.5	0.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	15.3		0.5	0.5	5	ug/Kg
127-18-4	Tetrachloroethene	20		0.5	0.5	5	ug/Kg
108-90-7	Chlorobenzene	18.9		0.5	0.5	5	ug/Kg
100-41-4	Ethyl Benzene	19		0.5	0.5	5	ug/Kg
179601-23-1	m/p-Xylenes	39.7		0.72	1	10	ug/Kg
95-47-6	o-Xylene	19.6		0.5	0.5	5	ug/Kg
100-42-5	Styrene	18.3		0.45	0.5	5	ug/Kg
75-25-2	Bromoform	14.6		0.74	1.5	5	ug/Kg
98-82-8	Isopropylbenzene	18.2		0.48	0.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	15.6		0.46	0.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.1		0.37	0.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.2		0.41	0.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	18.2		0.5	0.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	14.5		0.87	5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.2		0.5	0.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18		0.5	1	5	ug/Kg
123-91-1	1,4-Dioxane	300		100	100	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.1		55 - 158		94%	SPK: 50
1868-53-7	Dibromofluoromethane	55.1		53 - 156		110%	SPK: 50
2037-26-5	Toluene-d8	57.2		85 - 115		114%	SPK: 50
460-00-4	4-Bromofluorobenzene	55		85 - 120		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	616615	6.5				
540-36-3	1,4-Difluorobenzene	725294	7.61				
3114-55-4	Chlorobenzene-d5	659628	11.8				
3855-82-1	1,4-Dichlorobenzene-d4	415103	14.16				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD1009SBS01	SDG No.:	E4003
Lab Sample ID:	VD1009SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039333.D	1		10/09/13	VD100913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(0-2)MS	SDG No.:	E4003
Lab Sample ID:	E4003-02MS	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	49.1
Sample Wt/Vol:	3.86 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039264.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	140		1.3	1.3	12.7	ug/Kg
74-87-3	Chloromethane	130		1.3	1.3	12.7	ug/Kg
75-01-4	Vinyl Chloride	130		1.3	1.3	12.7	ug/Kg
74-83-9	Bromomethane	110		2.5	2.5	12.7	ug/Kg
75-00-3	Chloroethane	130		1.3	1.3	12.7	ug/Kg
75-69-4	Trichlorofluoromethane	140		1.3	1.3	12.7	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	120		1.3	1.3	12.7	ug/Kg
75-35-4	1,1-Dichloroethene	130		1.3	1.3	12.7	ug/Kg
67-64-1	Acetone	410		6.4	6.4	63.6	ug/Kg
75-15-0	Carbon Disulfide	98.9		1.3	1.3	12.7	ug/Kg
1634-04-4	Methyl tert-butyl Ether	120		1.3	1.3	12.7	ug/Kg
79-20-9	Methyl Acetate	280		2.5	2.5	12.7	ug/Kg
75-09-2	Methylene Chloride	120		1.3	1.3	12.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	120		1.3	1.3	12.7	ug/Kg
75-34-3	1,1-Dichloroethane	140		1.3	1.3	12.7	ug/Kg
110-82-7	Cyclohexane	99.8		1.3	1.3	12.7	ug/Kg
78-93-3	2-Butanone	490		7.9	19.1	63.6	ug/Kg
56-23-5	Carbon Tetrachloride	120		1.3	1.3	12.7	ug/Kg
156-59-2	cis-1,2-Dichloroethene	120		1.3	1.3	12.7	ug/Kg
74-97-5	Bromochloromethane	130		1.3	1.3	12.7	ug/Kg
67-66-3	Chloroform	130		1.3	1.3	12.7	ug/Kg
71-55-6	1,1,1-Trichloroethane	130		1.3	1.3	12.7	ug/Kg
108-87-2	Methylcyclohexane	70.7		1.3	1.3	12.7	ug/Kg
71-43-2	Benzene	140		0.97	1.3	12.7	ug/Kg
107-06-2	1,2-Dichloroethane	120		1.3	1.3	12.7	ug/Kg
79-01-6	Trichloroethene	120		1.3	1.3	12.7	ug/Kg
78-87-5	1,2-Dichloropropane	130		0.66	1.3	12.7	ug/Kg
75-27-4	Bromodichloromethane	110		1.3	1.3	12.7	ug/Kg
108-10-1	4-Methyl-2-Pentanone	560		6.4	6.4	63.6	ug/Kg
108-88-3	Toluene	120		1.3	1.3	12.7	ug/Kg
10061-02-6	t-1,3-Dichloropropene	100		1.3	1.3	12.7	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(0-2)MS	SDG No.:	E4003
Lab Sample ID:	E4003-02MS	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	49.1
Sample Wt/Vol:	3.86 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039264.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	90.7		1.3	1.3	12.7	ug/Kg
79-00-5	1,1,2-Trichloroethane	110		2.3	2.5	12.7	ug/Kg
591-78-6	2-Hexanone	470		6.4	6.4	63.6	ug/Kg
124-48-1	Dibromochloromethane	94.8		1.3	1.3	12.7	ug/Kg
106-93-4	1,2-Dibromoethane	110		1.3	1.3	12.7	ug/Kg
127-18-4	Tetrachloroethene	140		1.3	1.3	12.7	ug/Kg
108-90-7	Chlorobenzene	130		1.3	1.3	12.7	ug/Kg
100-41-4	Ethyl Benzene	140		1.3	1.3	12.7	ug/Kg
179601-23-1	m/p-Xylenes	260		1.8	2.5	25.4	ug/Kg
95-47-6	o-Xylene	130		1.3	1.3	12.7	ug/Kg
100-42-5	Styrene	110		1.1	1.3	12.7	ug/Kg
75-25-2	Bromoform	100		1.9	3.8	12.7	ug/Kg
98-82-8	Isopropylbenzene	210		1.2	1.3	12.7	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	220		1.2	1.3	12.7	ug/Kg
541-73-1	1,3-Dichlorobenzene	130		0.94	1.3	12.7	ug/Kg
106-46-7	1,4-Dichlorobenzene	130		1	1.3	12.7	ug/Kg
95-50-1	1,2-Dichlorobenzene	110		1.3	1.3	12.7	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	170		2.2	12.7	12.7	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	55.6		1.3	1.3	12.7	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	46.8		1.3	2.5	12.7	ug/Kg
123-91-1	1,4-Dioxane	2500		250	250	250	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48		55 - 158		96%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		53 - 156		105%	SPK: 50
2037-26-5	Toluene-d8	48.4		85 - 115		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	27.3	*	85 - 120		55%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	485268	6.53				
540-36-3	1,4-Difluorobenzene	577524	7.65				
3114-55-4	Chlorobenzene-d5	404458	11.83				
3855-82-1	1,4-Dichlorobenzene-d4	119240	14.18				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(0-2)MS	SDG No.:	E4003
Lab Sample ID:	E4003-02MS	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	49.1
Sample Wt/Vol:	3.86 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039264.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(0-2)MSD	SDG No.:	E4003
Lab Sample ID:	E4003-03MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	49.1
Sample Wt/Vol:	3.4 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039265.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	150		1.4	1.4	14.4	ug/Kg
74-87-3	Chloromethane	150		1.4	1.4	14.4	ug/Kg
75-01-4	Vinyl Chloride	140		1.4	1.4	14.4	ug/Kg
74-83-9	Bromomethane	130		2.9	2.9	14.4	ug/Kg
75-00-3	Chloroethane	150		1.4	1.4	14.4	ug/Kg
75-69-4	Trichlorofluoromethane	150		1.4	1.4	14.4	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	140		1.4	1.4	14.4	ug/Kg
75-35-4	1,1-Dichloroethene	140		1.4	1.4	14.4	ug/Kg
67-64-1	Acetone	490		7.2	7.2	72.2	ug/Kg
75-15-0	Carbon Disulfide	110		1.4	1.4	14.4	ug/Kg
1634-04-4	Methyl tert-butyl Ether	140		1.4	1.4	14.4	ug/Kg
79-20-9	Methyl Acetate	320		2.9	2.9	14.4	ug/Kg
75-09-2	Methylene Chloride	130		1.4	1.4	14.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	130		1.4	1.4	14.4	ug/Kg
75-34-3	1,1-Dichloroethane	150		1.4	1.4	14.4	ug/Kg
110-82-7	Cyclohexane	110		1.4	1.4	14.4	ug/Kg
78-93-3	2-Butanone	560		9	21.7	72.2	ug/Kg
56-23-5	Carbon Tetrachloride	140		1.4	1.4	14.4	ug/Kg
156-59-2	cis-1,2-Dichloroethene	140		1.4	1.4	14.4	ug/Kg
74-97-5	Bromochloromethane	140		1.4	1.4	14.4	ug/Kg
67-66-3	Chloroform	150		1.4	1.4	14.4	ug/Kg
71-55-6	1,1,1-Trichloroethane	150		1.4	1.4	14.4	ug/Kg
108-87-2	Methylcyclohexane	89.2		1.4	1.4	14.4	ug/Kg
71-43-2	Benzene	160		1.1	1.4	14.4	ug/Kg
107-06-2	1,2-Dichloroethane	140		1.4	1.4	14.4	ug/Kg
79-01-6	Trichloroethene	140		1.4	1.4	14.4	ug/Kg
78-87-5	1,2-Dichloropropane	150		0.75	1.4	14.4	ug/Kg
75-27-4	Bromodichloromethane	130		1.4	1.4	14.4	ug/Kg
108-10-1	4-Methyl-2-Pentanone	640		7.2	7.2	72.2	ug/Kg
108-88-3	Toluene	130		1.4	1.4	14.4	ug/Kg
10061-02-6	t-1,3-Dichloropropene	110		1.4	1.4	14.4	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(0-2)MSD	SDG No.:	E4003
Lab Sample ID:	E4003-03MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	49.1
Sample Wt/Vol:	3.4 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039265.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	110		1.4	1.4	14.4	ug/Kg
79-00-5	1,1,2-Trichloroethane	130		2.6	2.9	14.4	ug/Kg
591-78-6	2-Hexanone	530		7.2	7.2	72.2	ug/Kg
124-48-1	Dibromochloromethane	110		1.4	1.4	14.4	ug/Kg
106-93-4	1,2-Dibromoethane	110		1.4	1.4	14.4	ug/Kg
127-18-4	Tetrachloroethene	160		1.4	1.4	14.4	ug/Kg
108-90-7	Chlorobenzene	150		1.4	1.4	14.4	ug/Kg
100-41-4	Ethyl Benzene	150		1.4	1.4	14.4	ug/Kg
179601-23-1	m/p-Xylenes	280		2.1	2.9	28.9	ug/Kg
95-47-6	o-Xylene	140		1.4	1.4	14.4	ug/Kg
100-42-5	Styrene	120		1.3	1.4	14.4	ug/Kg
75-25-2	Bromoform	110		2.1	4.3	14.4	ug/Kg
98-82-8	Isopropylbenzene	230		1.4	1.4	14.4	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	210		1.3	1.4	14.4	ug/Kg
541-73-1	1,3-Dichlorobenzene	140		1.1	1.4	14.4	ug/Kg
106-46-7	1,4-Dichlorobenzene	140		1.2	1.4	14.4	ug/Kg
95-50-1	1,2-Dichlorobenzene	130		1.4	1.4	14.4	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	170		2.5	14.4	14.4	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	60.1		1.4	1.4	14.4	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	51.9		1.4	2.9	14.4	ug/Kg
123-91-1	1,4-Dioxane	2800		290	290	290	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.1		55 - 158		96%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		53 - 156		104%	SPK: 50
2037-26-5	Toluene-d8	49.2		85 - 115		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	30	*	85 - 120		60%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	504717	6.53				
540-36-3	1,4-Difluorobenzene	594414	7.65				
3114-55-4	Chlorobenzene-d5	426378	11.83				
3855-82-1	1,4-Dichlorobenzene-d4	140422	14.19				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	10/02/13
Project:	Old Champlain Mill Property	Date Received:	10/05/13
Client Sample ID:	CB(0-2)MSD	SDG No.:	E4003
Lab Sample ID:	E4003-03MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	49.1
Sample Wt/Vol:	3.4 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD039265.D	1		10/07/13	VD100713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG No.: E4003

Instrument ID: MSVOA_D Calibration Date(s): 10/07/2013 10/07/2013

Heated Purge: (Y/N) Y Calibration Time(s): 10:41 12:55

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VD039242.D RRF010 = VD039243.D RRF020 = VD039244.D
RRF050 = VD039245.D RRF100 = VD039246.D RRF200 = VD039247.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.985	0.957	1.031	0.993	0.987	0.941	0.982	3.2
Chloromethane	0.667	0.501	0.499	0.499	0.479	0.427	0.512	15.8
Vinyl Chloride	0.575	0.503	0.606	0.596	0.582	0.569	0.572	6.4
Bromomethane	0.626	0.585	0.471	0.596	0.516		0.559	11.3
Chloroethane	0.314	0.212	0.244	0.252	0.261	0.244	0.255	13.2
Trichlorofluoromethane	1.551	1.588	1.630	1.650	1.651	1.550	1.603	2.9
1,1,2-Trichlorotrifluoroethane	0.627	0.498	0.542	0.566	0.536	0.522	0.548	8.1
1,1-Dichloroethene	0.414	0.351	0.388	0.361	0.367	0.353	0.372	6.5
Acetone	0.160	0.118	0.121	0.133	0.121	0.124	0.129	12.1
Carbon Disulfide	1.355	1.216	1.284	1.299	1.235	1.219	1.268	4.3
Methyl tert-butyl Ether	1.208	0.994	1.170	1.148	1.149	1.153	1.137	6.5
Methyl Acetate	0.408	0.193	0.257	0.212	0.203	0.207	0.247	33.3
Methylene Chloride	0.542	0.391	0.439	0.400	0.416	0.377	0.427	14
trans-1,2-Dichloroethene	0.446	0.380	0.404	0.392	0.411	0.390	0.404	5.8
1,1-Dichloroethane	0.810	0.807	0.884	0.933	0.909	0.894	0.873	6
Cyclohexane	0.527	0.572	0.548	0.543	0.523	0.500	0.536	4.6
2-Butanone	0.109	0.096	0.116	0.117	0.111	0.108	0.110	7
Carbon Tetrachloride	0.904	1.072	0.995	1.030	1.041	0.996	1.006	5.8
cis-1,2-Dichloroethene	0.435	0.457	0.427	0.465	0.430	0.431	0.441	3.7
Bromochloromethane	0.330	0.314	0.353	0.369	0.354	0.354	0.346	5.7
Chloroform	1.152	1.225	1.308	1.302	1.287	1.254	1.255	4.7
1,1,1-Trichloroethane	1.343	1.315	1.396	1.417	1.384	1.350	1.368	2.8
Methylcyclohexane	0.578	0.570	0.535	0.518	0.537	0.511	0.542	5
Benzene	0.971	1.096	1.111	1.085	1.084	1.045	1.065	4.8
1,2-Dichloroethane	0.791	0.719	0.808	0.812	0.812	0.783	0.788	4.5
Trichloroethene	0.411	0.407	0.449	0.434	0.432	0.419	0.425	3.7
1,2-Dichloropropane	0.288	0.273	0.298	0.272	0.285	0.265	0.280	4.2
Bromodichloromethane	0.757	0.764	0.854	0.826	0.819	0.764	0.797	5.1
4-Methyl-2-Pentanone	0.250	0.207	0.244	0.219	0.211	0.195	0.221	9.8
Toluene	0.851	0.812	0.812	0.769	0.757	0.677	0.779	7.8
t-1,3-Dichloropropene	0.644	0.637	0.663	0.656	0.661	0.625	0.648	2.3
cis-1,3-Dichloropropene	0.622	0.649	0.713	0.680	0.669	0.645	0.663	4.8
1,1,2-Trichloroethane	0.294	0.240	0.277	0.249	0.253	0.243	0.259	8.3

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG No.: E4003

Instrument ID: MSVOA_D Calibration Date(s): 10/07/2013 10/07/2013

Heated Purge: (Y/N) Y Calibration Time(s): 10:41 12:55

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VD039242.D RRF010 = VD039243.D RRF020 = VD039244.D
RRF050 = VD039245.D RRF100 = VD039246.D RRF200 = VD039247.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
2-Hexanone	0.176	0.159	0.168	0.166	0.156	0.144	0.162	6.8
Dibromochloromethane	0.514	0.496	0.536	0.530	0.522	0.495	0.515	3.4
1,2-Dibromoethane	0.334	0.301	0.330	0.305	0.303	0.288	0.310	5.8
Tetrachloroethene	0.491	0.446	0.429	0.453	0.440	0.407	0.444	6.3
Chlorobenzene	1.086	1.021	1.066	1.095	1.035	0.972	1.046	4.4
Ethyl Benzene	2.167	2.140	2.084	2.068	2.098	1.783	2.057	6.8
m/p-Xylenes	0.678	0.714	0.671	0.659	0.594	0.547	0.644	9.6
o-Xylene	0.692	0.657	0.674	0.638	0.622	0.554	0.640	7.6
Styrene	1.232	1.157	1.141	1.051	0.985	0.895	1.077	11.5
Bromoform	0.362	0.363	0.357	0.341	0.351	0.340	0.352	2.9
Isopropylbenzene	3.606	3.718	3.675	3.870	3.566	3.403	3.640	4.3
1,1,2,2-Tetrachloroethane	0.524	0.478	0.532	0.575	0.520	0.539	0.528	5.9
1,3-Dichlorobenzene	1.683	1.725	1.811	1.762	1.671	1.585	1.706	4.6
1,4-Dichlorobenzene	1.584	1.616	1.733	1.707	1.561	1.520	1.620	5.2
1,2-Dichlorobenzene	1.516	1.485	1.573	1.528	1.416	1.305	1.470	6.6
1,2-Dibromo-3-Chloropropane	0.135	0.133	0.133	0.140	0.121	0.137	0.133	4.9
1,2,4-Trichlorobenzene	1.239	1.153	1.304	1.272	1.197	1.101	1.211	6.3
1,2,3-Trichlorobenzene	1.057	0.967	1.091	1.021	0.952	0.952	1.007	5.9
1,2-Dichloroethane-d4	0.708	0.758	0.836	0.854	0.817	0.834	0.801	7
Dibromofluoromethane	0.477	0.484	0.518	0.528	0.530	0.483	0.503	4.9
Toluene-d8	1.087	1.215	1.244	1.157	1.139	1.047	1.148	6.5
4-Bromofluorobenzene	0.695	0.692	0.681	0.622	0.606	0.552	0.641	9
1,4-Dioxane	0.002	0.001	0.002	0.001	0.001	0.001	0.001	7.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG No.: E4003

Instrument ID: MSVOA_D Calibration Date/Time: 10/08/2013 23:09

Lab File ID: VD039311.D Init. Calib. Date(s): 10/07/2013 10/07/2013

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:41 12:55

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.982	0.915		-6.82	20
Chloromethane	0.512	0.488	0.1	-4.69	20
Vinyl Chloride	0.572	0.512		-10.49	20
Bromomethane	0.559	0.564		0.89	20
Chloroethane	0.255	0.242		-5.1	20
Trichlorofluoromethane	1.603	1.502		-6.3	20
1,1,2-Trichlorotrifluoroethane	0.548	0.515		-6.02	20
1,1-Dichloroethene	0.372	0.356		-4.3	20
Acetone	0.129	0.114		-11.63	20
Carbon Disulfide	1.268	1.270		0.16	20
Methyl tert-butyl Ether	1.137	1.131		-0.53	20
Methyl Acetate	0.247	0.215		-12.95	20
Methylene Chloride	0.427	0.396		-7.26	20
trans-1,2-Dichloroethene	0.404	0.412		1.98	20
1,1-Dichloroethane	0.873	0.901	0.1	3.21	20
Cyclohexane	0.536	0.516		-3.73	20
2-Butanone	0.110	0.116		5.45	20
Carbon Tetrachloride	1.006	0.909		-9.64	20
cis-1,2-Dichloroethene	0.441	0.483		9.52	20
Bromochloromethane	0.346	0.366		5.78	20
Chloroform	1.255	1.372		9.32	20
1,1,1-Trichloroethane	1.368	1.387		1.39	20
Methylcyclohexane	0.542	0.493		-9.04	20
Benzene	1.065	1.065		0	20
1,2-Dichloroethane	0.788	0.746		-5.33	20
Trichloroethene	0.425	0.412		-3.06	20
1,2-Dichloropropane	0.280	0.279		-0.36	20
Bromodichloromethane	0.797	0.768		-3.64	20
4-Methyl-2-Pentanone	0.221	0.202		-8.6	20
Toluene	0.779	0.751		-3.59	20
t-1,3-Dichloropropene	0.648	0.634		-2.16	20
cis-1,3-Dichloropropene	0.663	0.637		-3.92	20
1,1,2-Trichloroethane	0.259	0.246		-5.02	20
2-Hexanone	0.162	0.149		-8.02	20
Dibromochloromethane	0.515	0.489		-5.05	20
1,2-Dibromoethane	0.310	0.303		-2.26	20
Tetrachloroethene	0.444	0.430		-3.15	20
Chlorobenzene	1.046	1.081	0.3	3.35	20
Ethyl Benzene	2.057	2.018		-1.9	20
m/p-Xylenes	0.644	0.648		0.62	20
o-Xylene	0.640	0.659		2.97	20
Styrene	1.077	1.073		-0.37	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG No.: E4003

Instrument ID: MSVOA_D Calibration Date/Time: 10/08/2013 23:09

Lab File ID: VD039311.D Init. Calib. Date(s): 10/07/2013 10/07/2013

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:41 12:55

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.352	0.358	0.1	1.71	20
Isopropylbenzene	3.640	3.460		-4.95	20
1,1,2,2-Tetrachloroethane	0.528	0.538	0.3	1.89	20
1,3-Dichlorobenzene	1.706	1.703		-0.18	20
1,4-Dichlorobenzene	1.620	1.566		-3.33	20
1,2-Dichlorobenzene	1.470	1.425		-3.06	20
1,2-Dibromo-3-Chloropropane	0.133	0.122		-8.27	20
1,2,4-Trichlorobenzene	1.211	1.178		-2.72	20
1,2,3-Trichlorobenzene	1.007	1.020		1.29	20
1,2-Dichloroethane-d4	0.801	0.828		3.37	20
Dibromofluoromethane	0.503	0.532		5.76	20
Toluene-d8	1.148	1.173		2.18	20
4-Bromofluorobenzene	0.641	0.640		-0.16	20
1,4-Dioxane	0.001	0.001	0.05	0	50

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG No.: E4003

Instrument ID: MSVOA_D Calibration Date/Time: 10/09/2013 09:29

Lab File ID: VD039331.D Init. Calib. Date(s): 10/07/2013 10/07/2013

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:41 12:55

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.982	0.966		-1.63	20
Chloromethane	0.512	0.459	0.1	-10.35	20
Vinyl Chloride	0.572	0.542		-5.24	20
Bromomethane	0.559	0.495		-11.45	20
Chloroethane	0.255	0.275		7.84	20
Trichlorofluoromethane	1.603	1.577		-1.62	20
1,1,2-Trichlorotrifluoroethane	0.548	0.578		5.47	20
1,1-Dichloroethene	0.372	0.404		8.6	20
Acetone	0.129	0.122		-5.43	20
Carbon Disulfide	1.268	1.411		11.28	20
Methyl tert-butyl Ether	1.137	1.146		0.79	20
Methyl Acetate	0.247	0.200		-19.03	20
Methylene Chloride	0.427	0.426		-0.23	20
trans-1,2-Dichloroethene	0.404	0.437		8.17	20
1,1-Dichloroethane	0.873	0.897	0.1	2.75	20
Cyclohexane	0.536	0.556		3.73	20
2-Butanone	0.110	0.105		-4.55	20
Carbon Tetrachloride	1.006	0.941		-6.46	20
cis-1,2-Dichloroethene	0.441	0.459		4.08	20
Bromochloromethane	0.346	0.384		10.98	20
Chloroform	1.255	1.277		1.75	20
1,1,1-Trichloroethane	1.368	1.310		-4.24	20
Methylcyclohexane	0.542	0.505		-6.83	20
Benzene	1.065	1.044		-1.97	20
1,2-Dichloroethane	0.788	0.685		-13.07	20
Trichloroethene	0.425	0.415		-2.35	20
1,2-Dichloropropane	0.280	0.266		-5	20
Bromodichloromethane	0.797	0.744		-6.65	20
4-Methyl-2-Pentanone	0.221	0.195		-11.77	20
Toluene	0.779	0.749		-3.85	20
t-1,3-Dichloropropene	0.648	0.583		-10.03	20
cis-1,3-Dichloropropene	0.663	0.599		-9.65	20
1,1,2-Trichloroethane	0.259	0.243		-6.18	20
2-Hexanone	0.162	0.141		-12.96	20
Dibromochloromethane	0.515	0.469		-8.93	20
1,2-Dibromoethane	0.310	0.287		-7.42	20
Tetrachloroethene	0.444	0.422		-4.95	20
Chlorobenzene	1.046	1.033	0.3	-1.24	20
Ethyl Benzene	2.057	1.962		-4.62	20
m/p-Xylenes	0.644	0.614		-4.66	20
o-Xylene	0.640	0.641		0.16	20
Styrene	1.077	1.045		-2.97	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: E4003 SAS No.: E4003 SDG No.: E4003

Instrument ID: MSVOA_D Calibration Date/Time: 10/09/2013 09:29

Lab File ID: VD039331.D Init. Calib. Date(s): 10/07/2013 10/07/2013

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:41 12:55

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.352	0.313	0.1	-11.08	20
Isopropylbenzene	3.640	3.456		-5.05	20
1,1,2,2-Tetrachloroethane	0.528	0.487	0.3	-7.76	20
1,3-Dichlorobenzene	1.706	1.693		-0.76	20
1,4-Dichlorobenzene	1.620	1.589		-1.91	20
1,2-Dichlorobenzene	1.470	1.315		-10.54	20
1,2-Dibromo-3-Chloropropane	0.133	0.105		-21.05	20
1,2,4-Trichlorobenzene	1.211	1.138		-6.03	20
1,2,3-Trichlorobenzene	1.007	0.918		-8.84	20
1,2-Dichloroethane-d4	0.801	0.785		-2	20
Dibromofluoromethane	0.503	0.517		2.78	20
Toluene-d8	1.148	1.218		6.1	20
4-Bromofluorobenzene	0.641	0.650		1.4	20
1,4-Dioxane	0.001	0.001	0.05	0	50

All other compounds must meet a minimum RRF of 0.010.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. E4003
QUOTE NO.
COC Number 026418

6.1

CLIENT INFORMATION
REPORT TO BE SENT TO:
COMPANY: CT Male
ADDRESS: 50 Century Hill Dr
CITY: Latham STATE: NY ZIP: 12110
ATTENTION: Kirk Moline
PHONE: 518-786-7502 FAX: 518-786-7219

CLIENT PROJECT INFORMATION
PROJECT NAME: Old Champlain Mill
PROJECT NO.: LOCATION: Whitehall
PROJECT MANAGER: Kirk Moline
e-mail: K.moline@ctmale.com
PHONE: 518-786-7502 FAX: 518-786-7219

CLIENT BILLING INFORMATION
BILL TO: Kirk Moline PO#:
ADDRESS: 50 Century Hill Drive
CITY: Latham STATE: NY ZIP: 12110
ATTENTION: K Moline PHONE: 518-786-7502

DATA TURNAROUND INFORMATION
FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: _____ DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION
☐ LEVEL 1: Results only ☐ Others _____
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☒ LEVEL 4: Results + QC (all raw data)
☐ EDD Format: _____

ANALYSIS
1 VOCs 2 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	CB 0-2"	Soil		X	10/2/13	11:58	4	X									
2.	CB 10-12"	Soil		X	10/2/13	12:00	4	X									
3.	CB ms/msD	Soil		X	10/2/13		8	X									
4.	CB FD #1	Soil		X	10/2/13		4	X									
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES: 1 2 3 4 5 6 7 8 9
COMMENTS: ← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1	DATE/TIME: 10/3/12	RECEIVED BY: 1
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. UPS	DATE/TIME: 10/5/13 1020	RECEIVED FOR LAB BY: 3. PS

Conditions of bottles or coolers at receipt: ☑ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:
Cooler Temp. 6°C
Ice in Cooler?: Y

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☑ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT
Shipment Complete: ☑ YES ☐ NO



1 OF 1

8 LBS

ANNA BROBSTON
(518) 786-7400
C.T. MALE ASSOCIATES
50 CENTURY HILL DRIVE
LATHAM NY 12110

PS
10/5/13

SHIP TO:
CHEMTECH
(908) 789-8900
284 SHEFFIELD STREET
MOUNTAINSIDE NJ 07092 1020

NJ 078 9-61

UPS NEXT DAY AIR 1 S

TRACKING #: 1Z 15A 038 44 5061 9335

BILLING: P/P

REF 1:06.6448
REF 2:GATES/NAP

WS 12.0.17 Zebra LP2844 42.0A 07/2013

SEE NOTICE ON REVERSE regarding UPS Terms, and notice of limitation of liability. Where allowed by law, shipper authorizes UPS to act as forwarding agent for export control and customs purposes. If exported from the US, shipper certifies that the commodities, technology or software were exported from the US in accordance with the Export Administration Regulations. Diversion contrary to law is prohibited.

CHEMTECH 284 Sheffield Street Mountainside NJ 07092 Tel. 908-7898900

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Connecticut	PH-0649
Florida	E87935
Louisiana	5035
Maryland	296
Massachusetts	M-NJ503
Pennsylvania	68-548
Rhode Island	LAO00259
Virginia	460220
Texas	T10470448-10-1

Other :

DOD ELAP Certified (L-A-B Accredited), ISO/IEC 17025	L2219
Soil Permit	P330-11-00012
CLP Inorganic Contract	EPW09038
CLP Organic Contract	EPW11030

QA Control Code: A2070148

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID:	E4003 CTMA01	**Order Date:**	10/7/2013	**Project Mgr:**	Wolski
Client Name:	C.T. Male Associates, P.C.,	**Project Name:**	Old Champlain Mill Property	**Report Type:**	NYS ASP B
Client Contact:	Kirk Moline	**Rec DateTime**	10/5/2013 10:20:00 AM	**EDD:**	Equis_EQNYDEC/Excel
Invoice Name:	C.T. Male Associates, P.C.,	**Purchase Order:**		**Hard Copy Date:**	
Invoice Contact:	Kirk Moline	**Login Tech:**	Nikul	**Date Signoff:**	10/7/2013 12:09:22 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
E4003-01	CB(0-2)	Solid	10/2/2013	11:58	4						
						VOC-TCLVOA-10		8260C	10 Bus.	0/16/2013	10/16/2
E4003-02	E4003-01MS	Solid	10/2/2013	11:58	4						
						VOC-TCLVOA-10		8260C	10 Bus.	0/16/2013	10/16/2
E4003-03	E4003-01MSD	Solid	10/2/2013	11:58	4						
						VOC-TCLVOA-10		8260C	10 Bus.	0/16/2013	10/16/2
E4003-04	CB(10-12)	Solid	10/2/2013	12:00	4						
						VOC-TCLVOA-10		8260C	10 Bus.	0/16/2013	10/16/2
E4003-05	CB-FD-1	Solid	10/2/2013	0:00	4						
						VOC-TCLVOA-10		8260C	10 Bus.	0/16/2013	10/16/2

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID:	E4003 CTMA01	**Order Date:**	10/7/2013	**Project Mgr:**	Wolski
Client Name:	C.T. Male Associates, P.C.,	**Project Name:**	Old Champlain Mill Property	**Report Type:**	NYS ASP B
Client Contact:	Kirk Moline	**Rec DateTime**	10/5/2013 10:20:00 AM	**EDD:**	Equis_EQNYDEC/Excel
Invoice Name:	C.T. Male Associates, P.C.,	**Purchase Order:**		**Hard Copy Date:**	
Invoice Contact:	Kirk Moline	**Login Tech:**	Nikul	**Date Signoff:**	10/7/2013 12:09:22 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates

SAMPLE CONDITION RECORD

Are samples submitted with a chain of custody?	Yes
Are the number of samples the same as stated on the chain of custody?	Yes
Are bottle caps tight and securely in place?	Yes
Were all containers intact when received?	Yes
Were samples submitted in an ice chest?	Yes
Were samples received cold?	Yes
Were samples within the holding time for the requested test(s)?	Yes
Is the volume of sample submitted sufficient for the requested test(s)?	Yes
Are all samples for volatile organic analyses free of headspace?	NA

Relinguished By: PS

Date / Time: 10/7/13 1300

Received By:

Date / Time: 10-07-13 13:00

Storage Area: VOA Refridgerator Room

ORDER COMMENT

terracores from the 33 Ashburton job.
Treat EQUIS as NYDEC V3.

EXHIBIT 3

May 2014 – Groundwater Sampling Event (8/8/14)

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

50 Century Hill Drive, Latham, NY 12110
518.786.7400 FAX 518.786.7299 ctmale@ctmale.com

August 8, 2014

Alicia Purzycki, P.E. Via Email
NYS Department of Environmental Conservation
Division of Environmental Remediation
232 Golf Course Road
Warrensburg, New York 12885
ajpurzyc@gw.dec.state.ny.us

RE: May 2014 Supplemental Investigation
Old Champlain Mill BCP Site
Village of Whitehall, Washington County, NY
BCP Site No. C558036
CTMA Project No. 06.6448

Dear Ms. Purzycki:

C.T. Male Associates, Engineering, Surveying, Architecture & Landscape Architecture, D.P.C. (C.T. Male) has completed a supplemental investigation at the above referenced site in accordance with our letter to you dated March 4, 2014.

The supplemental phase of investigation involved the completion of a groundwater sampling event to evaluate current groundwater quality within the site relative to volatile organic compounds. A targeted subsurface investigation was also completed in the area of monitoring well BMW-19A (Figure 1) where a Ground Penetrating Radar (GPR) survey identified a possible collapsed pipe between the northern foundation wall of the former mill building and catch basin in the vicinity of monitoring well BMW-19A.

The overall intent of the groundwater sampling event was to determine if on-going groundwater contaminant degradation was evident, and whether a source area of chlorinated solvents was present in the soils beneath the area of pipe collapse.

The supplemental work was completed on May 1 and 2, 2014. Groundwater level measurements were collected from the monitoring wells prior to initiating the sampling event and used to develop Figure 2, *Groundwater Contour Map May 1, 2014*, as attached. Groundwater samples were collected from the monitoring wells on the dates of May 1st and 2nd. The groundwater samples along with the requisite quality control/quality assurance samples were shipped via overnight delivery on May 2nd to Chemtech Laboratory in Mountainside, New Jersey. The samples were analyzed for the Target Compound List (TCL) of Volatile Organic Compounds (VOCs) by EPA Method 8260.

The subsurface investigation of the collapsed pipe location was completed on May 2nd. A spade was used to investigate the collapsed pipe location. Four (4) shovel pits were completed in the area of the suspected pipe collapse in order further identify the collapsed location. The top of the pipe was identified at a depth of approximately two (2) feet below existing grades in the first three (3) shovel pits. A fourth pit was excavated at a location identified by the GPR survey as a potential collapsed pipe, approximately 29 feet south of the manhole in the vicinity of monitoring well BMW-19A, as shown in Figures 2 and 3. The pipe at this location was not evident and the pit was able to be advanced to a depth of three (3) feet below grade. A sample of the soil from a depth of three (3) feet was collected for laboratory analysis and subjective screening. The sample did not exhibit any peculiar odors and VOC concentrations, based on photo ionization detector (PID) screening, were at non-detect ambient background concentrations (0.2 ppm). The soil sample was shipped with the groundwater samples to the laboratory for TCL VOC analysis by EPA Method 8260.

Findings

As shown in Figure 2, groundwater movement within the site is similar to the historical flow patterns for the previous groundwater sampling events. Generally, a north/south trending groundwater mound is apparent within the central portion of the site. Groundwater movement on the eastern side of the ridge is to the east-north east toward Wood Creek, and movement west of the ridge is generally to the west toward the Champlain Canal.

The analytical results for this groundwater monitoring event are summarized in Table 1. Only those compounds detected at one or more of the monitoring wells during of the groundwater sampling events conducted to date are presented in the table. The full report from the laboratory is attached. As presented in the tables, the primary VOCs detected are chlorinated-solvent related compounds. A summary of the detections follows.

- Trichloroethene (TCE) was detected in five (5) of the 16 wells samples at relatively low concentrations, ranging in concentration from 0.81 micrograms per liter or parts per billion (ppb) at BMW-14A to 76.4 ppb at MW-2.
- The remaining chlorinated VOCs detected were cis-1,2-Dichloroethene (c-1,2 DCE), trans-1,2-Dichloroethene (t-1,2 DCE), 1,1-Dichloroethene (1,1 DCE) and Vinyl Chloride (VC), each of which are degradation byproducts of TCE.
- c-1,2 DCE was detected at 15 of the 16 wells sampled, ranging in concentration from 0.81ppb at BMW-11A to 5,200 at BMW-19A.
- t-1,2 DCE was detected in seven (7) of the 16 wells, ranging in concentration from 0.66 ppb at MW-2A to 24.5 ppb at BMW-15A.

- 1,1 DCE was detected at seven (7) of the 16 wells, ranging in concentration from 0.29 ppb at MW-1A to 2.5 ppb at MW-10A.
- VC was detected at 10 of the 16 wells, ranging in concentration from 0.42 ppb at BMW-18A to 1,400 ppb at BMW-19A.

The total concentration of chlorinated volatile organic compounds (CVOCs) detected at the monitoring wells during the May 2014 sampling event have been used to plot isoconcentration contours of CVOC in groundwater within the site. The May 2014 CVOC isoconcentration contours are presented in Figure 3 along with the CVOC isoconcentration contours from the 2007, 2010 and 2012 data sets. As shown, the isoconcentration contours for the analytical data from 2010, 2012 and 2014 are similar in that the highest CVOC concentrations remain at and around BMW-19A. It also appears, based on the ongoing reduction of CVOCs concentrations at MW-2A and MW-3A, that the plume continues to migrate westerly, and the eastern end of the plume is diminishing. A slight increase of total CVOC concentrations occurred at BMW-19A since the last sampling event of 2012, but the 2014 concentrations remain less than those detected in 2010. The 2014 total CVOC concentration at monitoring well BMW-15A slightly increased since the last sampling event in 2010 which is apparent by the 2014 500 ppb contour.

The analytical results collected from the pipe collapse location are presented in Table 2. As shown, TCE and cis-1,2-DCE were the only compounds detected in the soil sample at concentrations of 1.5 ppb and 1.6 ppb, respectively. Neither of these detections is greater than their Soil Cleanup Objective values in NYCPP Part 375 for both Commercial and Unrestricted uses.

Conclusions

Overall, the 2014 total CVOC concentrations in groundwater are similar to those previously detected. In regard to the monitoring wells with the highest historical CVOC detections in 2007, (MW-2A, MW-10A) there has been a significant decrease in total CVOC concentrations at MW-2A and little change at MW-10A. In regard to the monitoring wells installed in 2010 with the highest historical detections of CVOC concentrations (BMW-13A, BMW-14A, BMW-15A), there has been little change at BMW-13A and BMW-14A, and a moderate increase at BMW-15A. At BMW-19A, a significant decrease occurred between 2010 and 2012, followed by a moderate increase between 2012 and 2014; however, not back to the concentrations in 2010.

Historically, Trichloroethene concentrations have been comparatively low as compared to its degradation byproducts, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene and Vinyl Chloride.

The investigation of the collapsed portion of the buried piping between the former building and the catch basin determined it is not a source area of CVOC contamination.

It is clear that there is significant variability in the concentrations at individual wells, which is probably due to varying amounts of dilution during sampling. Which strata are saturated will depend on the rate of antecedent recharge, which varies over time. Taking three (3) or four (4) samples over several years is not likely to produce a sufficiently large sample set to allow rates of change to be distinguished from seasonal fluctuations. Nevertheless, the ubiquitous presence of TCE-degradation daughter products, as well as second-generation daughter products, is adequate to demonstrate biodegradation on the site. The degradation process is simply too slow to allow a clear trend to be distinguished from the noise, in individual wells, at present. However, it can be shown that, the while some wells show increases, the majority show decreases, which is completely conformable with steady attenuation at all points, with some seasonal biases, due to a varying water table elevation and the resulting changes in the relative amounts of water from contaminated and clean strata that mix in the well during purging.

Recommendations

As all investigations to date have not identified a contaminant source and the historical groundwater data reflects a stabilized plume and abundant evidence of on-going natural contaminant degradation, C.T. Male recommends that the selected remedial alternative be monitoring of natural attenuation (MNA) along with engineering control requirements for any new site structures (i.e., one foot of clean soil cover and/or pavement/slab equivalents and passive sub-slab venting system for occupied structures), along with a requisite environmental easement. With your concurrence, the Alternative Analysis Report will be prepared and issued for your review and approval. If you have any questions, please contact me at your convenience.

Respectfully submitted,

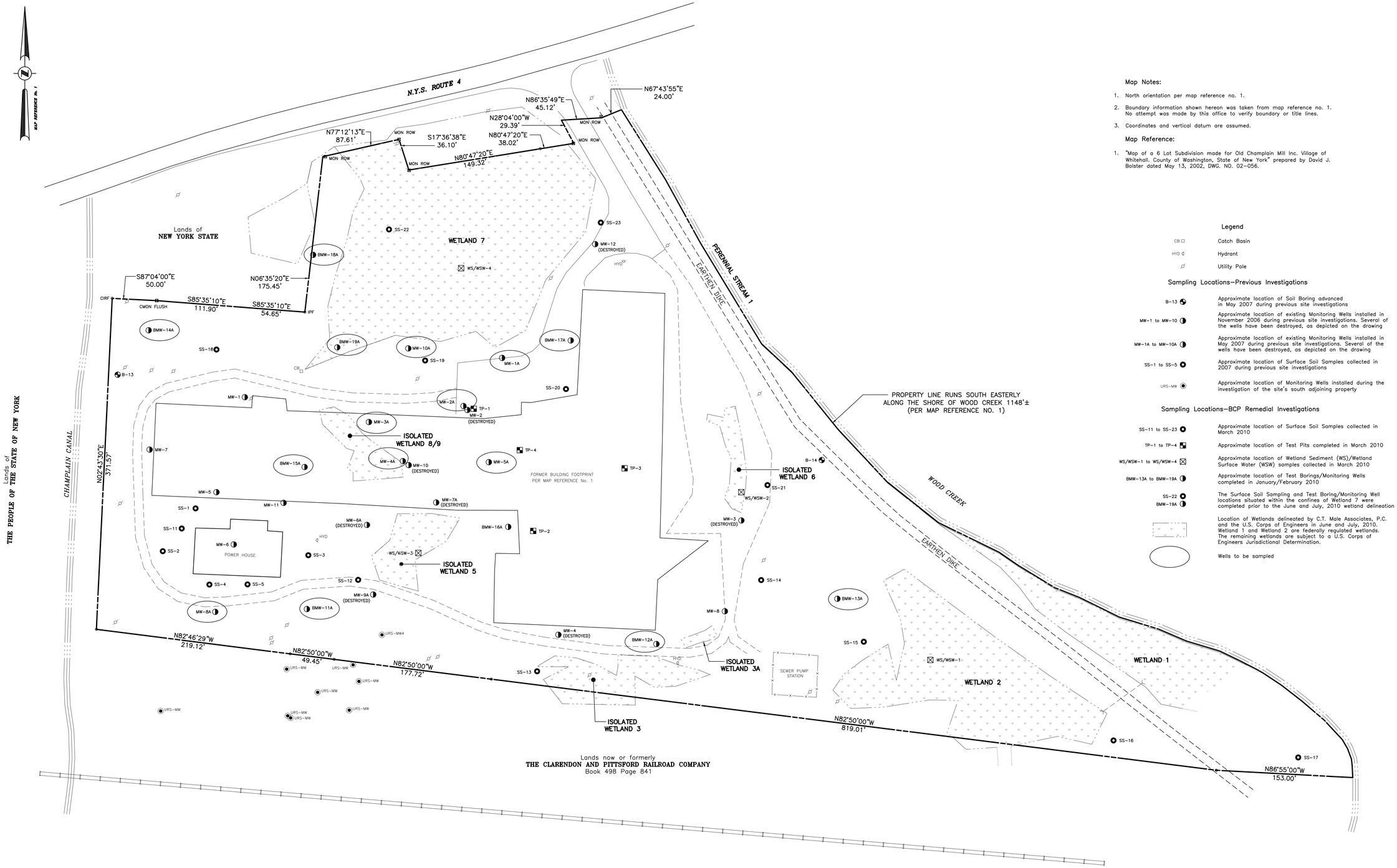
C.T. MALE ASSOCIATES



Kirk Moline
Managing Geologist

Att. Figure 1, Groundwater Sampling Plan
Figure 2, Groundwater Contour Map
Figure 3, Composite of GW Isoconcentration Contours for 2007, 2010, 2012 and 2015
Laboratory Summary Tables
Laboratory Analytical Reports

C: Poultney Street Partners
Gary Bowitch, Esq.
Roy Redmond, Hatch, Mott, McDonald



BAR SCALE

50 0 25 50 100

1 inch = 50 ft.

Map Notes:

1. North orientation per map reference no. 1.
2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
3. Coordinates and vertical datum are assumed.

Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall. County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

CB □	Catch Basin
HYD ◁	Hydrant
⌀	Utility Pole

Sampling Locations–Previous Investigations

B-13	Approximate location of Soil Boring advanced in May 2007 during previous site investigations
MW-1 to MW-10	Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
MW-1A to MW-10A	Approximate location of existing Monitoring Wells installed in May 2007 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
SS-1 to SS-5	Approximate location of Surface Soil Samples collected in 2007 during previous site investigations
URS-MW	Approximate location of Monitoring Wells installed during the investigation of the site's south adjoining property

Sampling Locations–BCP Remedial Investigations

SS-11 to SS-23	Approximate location of Surface Soil Samples collected in March 2010
TP-1 to TP-4	Approximate location of Test Pits completed in March 2010
WS/WSW-1 to WS/WSW-4	Approximate location of Wetland Sediment (WS)/Wetland Surface Water (WSW) samples collected in March 2010
BMW-13A to BMW-19A	Approximate location of Test Borings/Monitoring Wells completed in January/February 2010
SS-22 / BMW-19A	The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation
	Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.
	Wells to be sampled

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APPROVED:

DRAFTED : S.WUNSCH

CHECKED : S.BEIBER

PROJ. NO: 06.6448

SCALE : 1"=50'

DATE : FEB. 24, 2014

FIGURE-1
GROUNDWATER SAMPLING PLAN

OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

C.T. MALE ASSOCIATES, P.C.
50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299
ARCHITECTURE & BUILDING SYSTEMS ENGINEERING * CIVIL ENGINEERING
ENVIRONMENTAL SERVICES * SURVEY & LAND INFORMATION SERVICES

SHEET 1 OF 1

DWG. NO: 10-XXX

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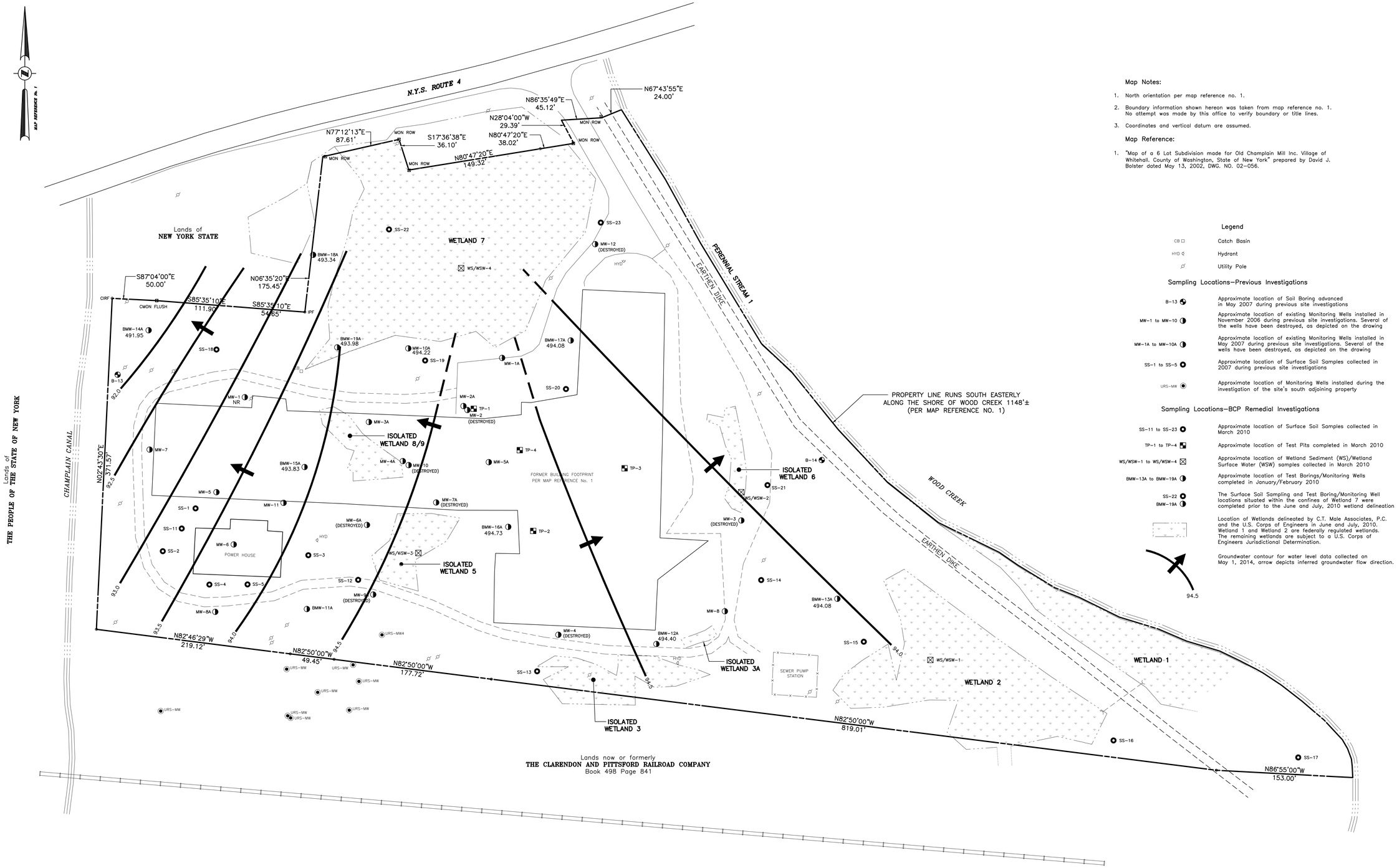
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CAD DWG. FILE NAME: FIGURE-2.DWG

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Map Notes:

1. North orientation per map reference no. 1.
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Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall. County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

CB □	Catch Basin
HYD ◁	Hydrant
⌀	Utility Pole

Sampling Locations–Previous Investigations

B-13	Approximate location of Soil Boring advanced in May 2007 during previous site investigations
MW-1 to MW-10	Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
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SS-1 to SS-5	Approximate location of Surface Soil Samples collected in 2007 during previous site investigations
URS-MW	Approximate location of Monitoring Wells installed during the investigation of the site's south adjoining property

Sampling Locations–BCP Remedial Investigations

SS-11 to SS-23	Approximate location of Surface Soil Samples collected in March 2010
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SS-22 / BMW-19A	The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation
	Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.
94.5	Groundwater contour for water level data collected on May 1, 2014, arrow depicts inferred groundwater flow direction.

BAR SCALE
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1 inch = 50 ft.

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PROJ. NO: 06.6448

SCALE : 1"=50'

DATE : MAY 9, 2014

FIGURE-2
GROUNDWATER CONTOUR MAP MAY 1, 2014

OLD CHAMPLAIN MILL SITE

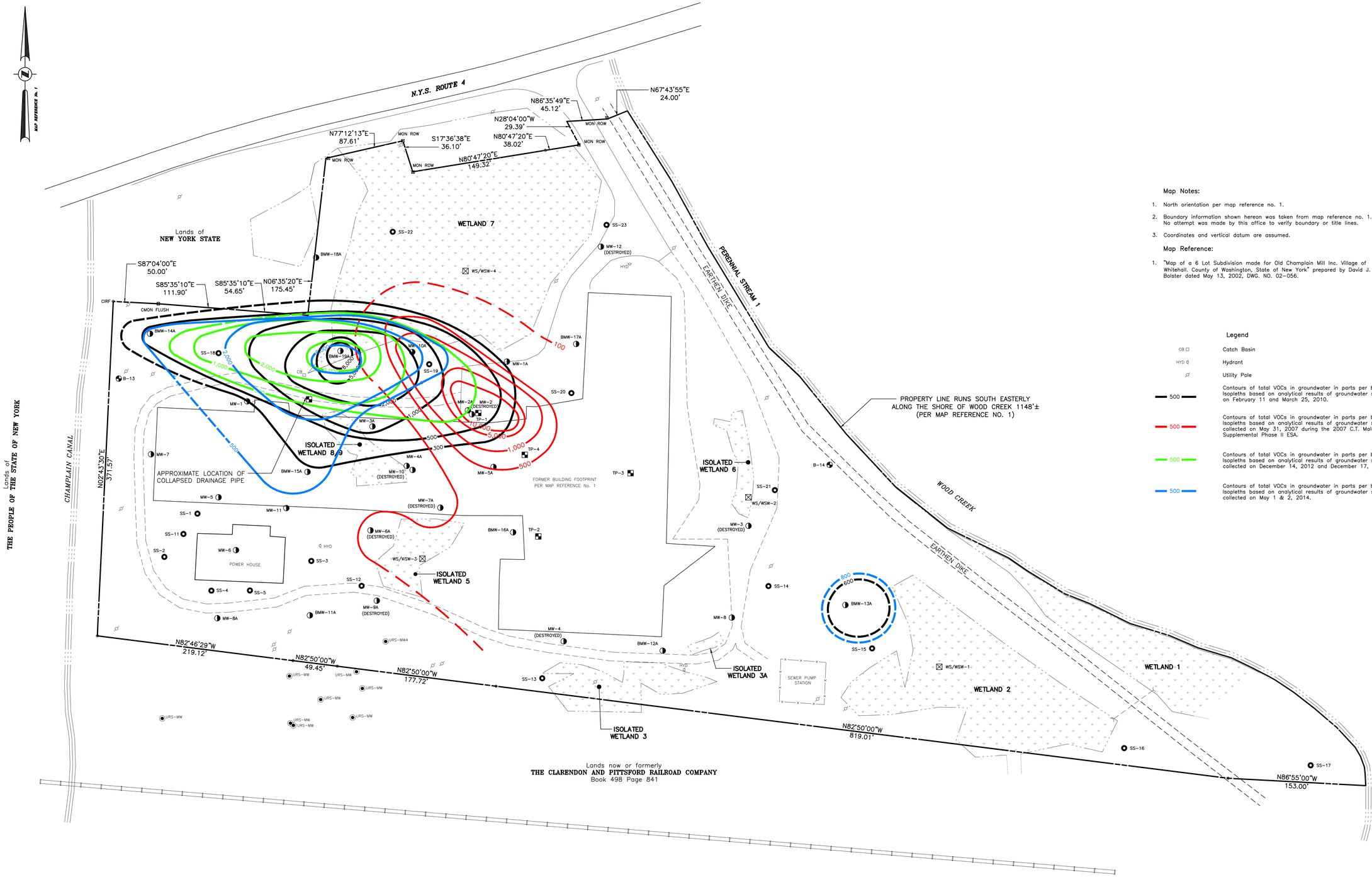
VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

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Lands now or formerly
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Book 498 Page 841

Map Notes:

1. North orientation per map reference no. 1.
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3. Coordinates and vertical datum are assumed.

Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall, County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

CB	Catch Basin
HYD	Hydrant
	Utility Pole
500	Contours of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on February 11 and March 25, 2010.
500	Contours of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on May 31, 2007 during the 2007 C.T. Male Supplemental Phase II ESA.
500	Contours of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on December 14, 2012 and December 17, 2012.
500	Contours of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on May 1 & 2, 2014.

BAR SCALE
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1 inch = 50 ft.

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DATE : MAY 20, 2014

FIGURE-3
COMPOSITE OF GROUNDWATER ISOCONCENTRATION CONTOURS FOR 2007, 2010, 2012, AND 2014

OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscaping Architecture, D.P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
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SHEET 1 OF 1
DWG. NO: 14-299

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TABLE 1
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	MW-1A										MW-2A											
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/2/2014		5/31/2007		2/11/2010		3/25/2010		3/25/2010 (FD)		12/17/2012		5/2/2014	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		NS		0.29	J	**8.4**		NS		3.2		3.3		1.7	J	1.8	
Acetone	50 (GV)	ND		NS		NS		NS		1	U	ND		NS		4.2	J	5	UJ	25	U	1	U
Chloroform	7	ND		NS		NS		NS		0.2	U	ND		NS		1	U	1	U	12	U	0.2	U
cis-1,2-Dichloroethene	5	**160**		NS		NS		NS		**41.4**		**7,500**		NS		**580**		**610**		**310**		**61.3**	
Methylene Chloride	5	**9.7**		NS		NS		NS		0.2	U	**9.3**		NS		1	U	1	U	12	U	0.2	U
Naphthalene	10	ND		NS		NS		NS		NA		ND		NS		NA		NA		12	U	NA	
o-Xylene	5	ND		NS		NS		NS		0.2	U	ND		NS		1	U	1	U	12	U	0.2	U
trans-1,2-Dichloroethene	5	ND		NS		NS		NS		0.2	U	**47**		NS		3.8		4.1		12	U	0.66	J
Trichloroethene	5	ND		NS		NS		NS		0.2	U	**3,300**		NS		**69**		**67**		**190**		**75.4**	
Vinyl Chloride	2	**87**		NS		NS		NS		**21.9**		**210**		NS		**23**		**24**		**9.7**		0.2	U
TOTAL VOCs		256.7								63.59		11,074.7				683.2		708.4		511.4		139.16	

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	MW-3A										MW-4A											
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/1/2014		5/31/2007		2/11/2010		3/25/2010				12/14/2012		5/1/2014	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier			Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		1.7		0.5	U	0.32	J	ND		NS		1	U			NS		0.2	U
Acetone	50 (GV)	ND		NS		5	U	5	U	1	U	ND		NS		5	U			NS		1	U
Chloroform	7	ND		NS		1	U	2.5	U	0.2	U	ND		NS		1	U			NS		0.2	U
cis-1,2-Dichloroethene	5	**15**		NS		**1,500**		**6.7**		**200**	D	**13**		NS		**6**				NS		5	
Methylene Chloride	5	ND		NS		1	U	2.5	U	0.2	U	ND		NS		1	U			NS		0.2	U
Naphthalene	10	ND		NS		NA		2.5	U	NA		ND		NS		NA				NS		NA	
o-Xylene	5	ND		NS		1	U	2.5	U	0.2	U	ND		NS		1	U			NS		0.2	U
trans-1,2-Dichloroethene	5	ND		NS		**5.2**		2.5	U	0.69	J	ND		NS		1	U			NS		0.69	J
Trichloroethene	5	ND		NS		1	U	0.5	U	0.2	U	ND		NS		1.2				NS		1.2	
Vinyl Chloride	2	ND		NS		**330**		1.3		**50.9**		ND		NS		1	U			NS		0.2	U
TOTAL VOCs		15				1,836.9		8		251.91		13				7.2						6.89	

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.

Concentrations expressed in ug/l or parts per billion (ppb)

U indicates that the compound was analyzed for but not detected

J indicates an estimated value

GV denotes a Guidance Value

ND denotes "Non-Detect"

NA denotes "Not Analyzed"

NS denotes "Not Sampled"

2/11/2010 (FD) is a duplicate of BMW-16A

3/25/2010 (FD) is a duplicate of MW-2A

12/14/2012 (FD) is a duplicate of MW-10A

5/1/2014 (FD) is a duplicate of MW-15A

TABLE 1
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L)[1]	MW-5A										MW-6A							
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/1/2014		5/31/2007		2/11/2010		3/25/2010		12/17/2012	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		1	U	NS		0.2	U	ND		NS		NS		NS	
Acetone	50 (GV)	ND		NS		5	U	NS		1	U	ND		NS		NS		NS	
Chloroform	7	ND		NS		1	U	NS		0.2	U	ND		NS		NS		NS	
cis-1,2-Dichloroethene	5	**530**		NS		4.6		NS		0.94	J	**160**		NS		NS		NS	
Methylene Chloride	5	**10**		NS		1	U	NS		0.2	U	**11**		NS		NS		NS	
Naphthalene	10	ND		NS		NA		NS		NA		ND		NS		NS		NS	
o-Xylene	5	ND		NS		1	U	NS		0.2	U	ND		NS		NS		NS	
trans-1,2-Dichloroethene	5	**14**		NS		1	U	NS		0.2	U	ND		NS		NS		NS	
Trichloroethene	5	**88**		NS		1.2		NS		1.1		**140**		NS		NS		NS	
Vinyl Chloride	2	**160**		NS		0.81	J	NS		0.2	U	**9.4**		NS		NS		NS	
TOTAL VOCs		802				6.61				2.04		320.4							

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L)[1]	MW-7A										MW-8							
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/1/2014		5/31/2007		2/11/2010		3/25/2010		12/17/2012	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		NS		NS		NS		NS		1	U	NS	
Acetone	50 (GV)	ND		NS		NS		NS		NS		NS		NS		5	U	NS	
Chloroform	7	ND		NS		NS		NS		NS		NS		NS		1	U	NS	
cis-1,2-Dichloroethene	5	**17**		NS		NS		NS		NS		NS		NS		1	U	NS	
Methylene Chloride	5	**11**		NS		NS		NS		NS		NS		NS		1	U	NS	
Naphthalene	10	**42**		NS		NS		NS		NS		NS		NS		NA		NS	
o-Xylene	5	ND		NS		NS		NS		NS		NS		NS		1	U	NS	
trans-1,2-Dichloroethene	5	ND		NS		NS		NS		NS		NS		NS		1	U	NS	
Trichloroethene	5	**7.2**		NS		NS		NS		NS		NS		NS		1	U	NS	
Vinyl Chloride	2	ND		NS		NS		NS		NS		NS		NS		1	U	NS	
TOTAL VOCs		35.2														0			

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
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TABLE 1
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L)[1]	MW-8A												MW-9A									
		5/31/2007		2/11/2010		3/25/2010		12/17/2012				5/2/2014		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/2/2014	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier			Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		1	U	NS				0.2	U	ND		NS		NS		NS		NS	
Acetone	50 (GV)	ND		NS		5	U	NS				1	U	ND		NS		NS		NS		NS	
Chloroform	7	ND		NS		1	U	NS				0.2	U	ND		NS		NS		NS		NS	
cis-1,2-Dichloroethene	5	**12**		NS		1	U	NS				0.93	J	ND		NS		NS		NS		NS	
Methylene Chloride	5	**11**		NS		1	U	NS				0.2	U	**10**		NS		NS		NS		NS	
Naphthalene	10	ND		NS		NA		NS				NA		ND		NS		NS		NS		NS	
o-Xylene	5	ND		NS		1	U	NS				0.2	U	ND		NS		NS		NS		NS	
trans-1,2-Dichloroethene	5	ND		NS		1	U	NS				0.2	U	ND		NS		NS		NS		NS	
Trichloroethene	5	ND		NS		1	U	NS				0.2	U	ND		NS		NS		NS		NS	
Vinyl Chloride	2	ND		NS		1	U	NS				0.2	U	ND		NS		NS		NS		NS	
TOTAL VOCs		23				0						0.93		10									

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L)[1]	MW-10A												BMW-11A									
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		12/14/2012 (FD)		5/2/2014		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/2/2014	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		10	U	1.2		2.5		NS		1	U	NS		NS		0.2	U
Acetone	50 (GV)	ND		NS		NS		100	U	5	U	1	U	NS		5	U	NS		NS		1	U
Chloroform	7	ND		NS		NS		50	U	2.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
cis-1,2-Dichloroethene	5	**1,300**		NS		NS		**650**		**600**		**1,800**	D	NS		1	U	NS		NS		0.81	J
Methylene Chloride	5	**9.2**		NS		NS		50	U	2.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
Naphthalene	10	ND		NS		NS		50	U	2.5	U	NA		NS		NA		NS		NS		NA	
o-Xylene	5	ND		NS		NS		50	U	2.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
trans-1,2-Dichloroethene	5	**8.9**		NS		NS		50	U	**5.7**		**6.2**		NS		1	U	NS		NS		0.2	U
Trichloroethene	5	**10**		NS		NS		10	U	2.4		**16.3**		NS		1	U	NS		NS		0.2	U
Vinyl Chloride	2	**440**		NS		NS		**120**		**140**		**400**	D	NS		1	U	NS		NS		0.2	U
TOTAL VOCs		1,768.1						770		749.3		1,825				0						0.81	

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
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TABLE 1
OLD CHAMPLAIN MILL BCP SITE
VILLAGE OF WHITEHALL, WASHINGTON COUNTY
GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	BMW-12A										BMW-13A									
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/2/2014		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/2/2014	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U	NS		NS		0.2	U	NS		1	U	NS		NS		0.92	J
Acetone	50 (GV)	NS		15	U	NS		NS		1	U	NS		5	U	NS		NS		1	U
Chloroform	7	NS		1	U	NS		NS		0.2	U	NS		1	U	NS		NS		0.2	U
cis-1,2-Dichloroethene	5	NS		4.8		NS		NS		1.6		NS		**530**		NS		NS		**630**	D
Methylene Chloride	5	NS		1	U	NS		NS		0.2	U	NS		1	U	NS		NS		0.2	U
Naphthalene	10	NS		NA		NS		NS		NA		NS		NA		NS		NS		NA	
o-Xylene	5	NS		1	U	NS		NS		0.2	U	NS		1	U	NS		NS		0.2	U
trans-1,2-Dichloroethene	5	NS		1	U	NS		NS		0.2	U	NS		2.1		NS		NS		1.3	
Trichloroethene	5	NS		1	U	NS		NS		0.2	U	NS		1	U	NS		NS		0.2	U
Vinyl Chloride	2	NS		**6.7**		NS		NS		**2.3**		NS		**130**		NS		NS		**170**	
TOTAL VOCs				11.5						3.9				662.1						802.22	

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	BMW-14A										BMW-15A											
		5/31/2007		2/10/2010		3/25/2010		12/17/2012		5/2/2014		5/31/2007		2/10/2010		3/25/2010		12/14/2012		5/1/2014		5/1/2014 (FD)	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1.5		NS		2.5	U	1.4		NS		1	U	NS		NS		1.6		1.5	
Acetone	50 (GV)	NS		5	UJ	NS		25	U	1	U	NS		5	U	NS		NS		1	U	1	U
Chloroform	7	NS		1.2		NS		12	U	0.2	U	NS		0.88	J	NS		NS		0.2	U	0.2	U
cis-1,2-Dichloroethene	5	NS		**520**		NS		**350**		**460**	D	NS		**150**		NS		NS		**620**	D	**580**	D
Methylene Chloride	5	NS		1	U	NS		12	U	0.2	U	NS		1	U	NS		NS		0.2	U	0.2	U
Naphthalene	10	NS		NA		NS		12	U	NA		NS		NA		NS		NS		NA		NA	
o-Xylene	5	NS		1	U	NS		12	U	0.2	U	NS		1	U	NS		NS		0.2	U	0.2	U
trans-1,2-Dichloroethene	5	NS		**13**		NS		**5.1**	J	**7.8**		NS		**10**		NS		NS		**24.5**		**23.2**	
Trichloroethene	5	NS		**17**		NS		2.5	U	0.81	J	NS		**35**		NS		NS		**9.1**		**9**	
Vinyl Chloride	2	NS		**13**		NS		5	U	**10.8**		NS		**82**		NS		NS		**220**		**200**	D
TOTAL VOCs				565.7				355.1		480.81				277.88						875.2		813.7	

Qualifiers and Notes

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmkental Conservation, June 1998 and Addendum, April 2000.
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TABLE 1
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GROUNDWATER ANALYTICAL RESULTS SUMMARY - VOLATILE ORGANIC COMPOUNDS
(DETECTED COMPOUNDS ONLY)

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	BMW-16A												BMW-17A									
		5/31/2007		2/11/2010		2/11/2010 (FD)		3/25/2010		12/14/2012		5/2/2014		5/31/2007		2/10/2010		3/25/2010		12/14/2012		5/2/2014	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U	1	U	1	U	0.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
Acetone	50 (GV)	NS		5	U	5	UJ	5	U	5	U	1	U	NS		5	U	NS		NS		1	U
Chloroform	7	NS		1	U	1	U	1	U	2.5	U	0.2	U	NS		0.71	J	NS		NS		0.2	U
cis-1,2-Dichloroethene	5	NS		4.2		3.7		1.2		2.5	U	0.2	U	NS		1.3		NS		NS		1.1	
Methylene Chloride	5	NS		1	U	1	U	1	U	2.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
Naphthalene	10	NS		NA		NA		NA		2.5	U	NA		NS		NA		NS		NS		NA	
o-Xylene	5	NS		1	U	1	U	1	U	2.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
trans-1,2-Dichloroethene	5	NS		1	U	1	U	1	U	2.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
Trichloroethene	5	NS		1.9		2		1	U	0.5	U	0.2	U	NS		1	U	NS		NS		0.2	U
Vinyl Chloride	2	NS		**2.1**		1.8		**2.1**		1	U	0.2	U	NS		**65**		NS		NS		**22.1**	
TOTAL VOCs				8.2		7.5		3.3		0		0				67.01						23.2	

	NYSDEC GROUNDWATER STANDARD OR GUIDANCE	BMW-18A												BMW-19A									
		5/31/2007		2/10/2010				3/25/2010		12/14/2012		5/2/2014		5/31/2007		2/10/2010		3/25/2010		12/17/2012		5/2/2014	
PARAMETER	VALUE (ug/L)[1]	Result	Qualifier	Result	Qualifier			Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U			NS		NS		0.2	U	NS		**7.4**		NS		25	U	4	U
Acetone	50 (GV)	NS		5	U			NS		NS		1	U	NS		5	UJ	NS		250	U	20	U
Chloroform	7	NS		1	U			NS		NS		0.2	U	NS		0.94	J	NS		120	U	4	U
cis-1,2-Dichloroethene	5	NS		1.6				NS		NS		3.2		NS		**6,600**		NS		**2,700**		**5,200**	D
Methylene Chloride	5	NS		1	U			NS		NS		0.2	U	NS		1	U	NS		120	U	4	U
Naphthalene	10	NS		NA				NS		NS		NS		NS		NA		NS		120	U	NA	
o-Xylene	5	NS		1	U			NS		NS		0.2	U	NS		0.55	J	NS		120	U	4	U
trans-1,2-Dichloroethene	5	NS		1	U			NS		NS		0.2	U	NS		**35**		NS		120	U	10	J
Trichloroethene	5	NS		1	U			NS		NS		0.2	U	NS		**5.5**		NS		25	U	4	U
Vinyl Chloride	2	NS		1	U			NS		NS		0.42		NS		**1,800**		NS		**820**		1,400	
TOTAL VOCs				1.6								3.62				8,449				3,520		6,600	

Qualifiers and Notes
[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,
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5/1/2014 (FD) is a duplicate of MW-15A

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : OLD CHAMPLAIN MILL PROPERTY

C.T. MALE ASSOCIATES, P.C.,

50 CENTURY HILL DRIVE

LATHAM, NY - 12110

Phone No: 518-786-7400

ORDER ID : F2206

ATTENTION : Kirk Moline

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

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2) Case Narrative 7

2.1) VOC-TCLVOA-10- Case Narrative 7

3) VOC-TCLVOA-10 Data 10

4) Shipping Document 210

4.1) CHAIN OF CUSTODY 211

4.2) Air Bill 213

4.3) ROC 214

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : F2206

Project ID : Old Champlain Mill Property

Client : C.T. Male Associates, P.C.,

Lab Sample Number	Client Sample Number
F2206-01	BMW-11A
F2206-02	MW-8A
F2206-03	BMW-14A
F2206-04	BMW-18A
F2206-05	BMW-19A
F2206-06	MW-10A
F2206-07	MW-2A
F2206-08	MW-1A
F2206-09	BMW-17A
F2206-10	ANOMALY-1(3)
F2206-11	BMW-15A
F2206-12	FD050114
F2206-13	TRIPBLANK
F2206-14	MW-3A
F2206-15	EB050114
F2206-16	MW-4A
F2206-17	F2206-16MS
F2206-18	F2206-16MSD
F2206-19	MW-5A
F2206-20	BMW-13A
F2206-21	BMW-12A
F2206-22	BMW-16A

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

APPROVED
Date: 5/14/2014
By Mildred V Reyes at 11:00 am, May 16, 2014

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sampl ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
BMW-11A	F2206-01	8260-Low					
MW-8A	F2206-02	8260-Low					
BMW-14A	F2206-03	8260-Low					
BMW-18A	F2206-04	8260-Low					
BMW-19A	F2206-05	8260-Low					
MW-10A	F2206-06	8260-Low					
MW-2A	F2206-07	8260-Low					
MW-1A	F2206-08	8260-Low					
BMW-17A	F2206-09	8260-Low					
ANOMALY-1(3)	F2206-10	8260-Low, 8260C					Chemtech -SOP
BMW-15A	F2206-11	8260-Low, 8260C					Chemtech -SOP
FD050114	F2206-12	8260-Low, 8260C					Chemtech -SOP
TRIPBLANK	F2206-13	8260-Low, 8260C					Chemtech -SOP
MW-3A	F2206-14	8260-Low, 8260C					Chemtech -SOP
EB050114	F2206-15	8260-Low, 8260C					Chemtech -SOP
MW-4A	F2206-16	8260-Low, 8260C					Chemtech -SOP
MW-5A	F2206-19	8260-Low, 8260C					Chemtech -SOP
BMW-13A	F2206-20	8260-Low, 8260C					Chemtech -SOP
BMW-12A	F2206-21	8260-Low, 8260C					Chemtech -SOP
BMW-16A	F2206-22	8260-Low, 8260C					Chemtech -SOP

CHEMTECH

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
F2206-01	Water	05/02/14	05/03/14		05/06/14
F2206-02	Water	05/02/14	05/03/14		05/06/14
F2206-03	Water	05/02/14	05/03/14		05/06/14
F2206-04	Water	05/02/14	05/03/14		05/07/14
F2206-05	Water	05/02/14	05/03/14		05/06/14
F2206-06	Water	05/02/14	05/03/14		05/06/14
F2206-07	Water	05/02/14	05/03/14		05/06/14
F2206-08	Water	05/02/14	05/03/14		05/06/14
F2206-09	Water	05/02/14	05/03/14		05/06/14
F2206-10	SOIL	05/02/14	05/03/14		05/05/14
F2206-11	Water	05/01/14	05/03/14		05/06/14
F2206-12	Water	05/01/14	05/03/14		05/06/14
F2206-13	Water	04/29/14	05/03/14		05/07/14
F2206-14	Water	05/01/14	05/03/14		05/07/14
F2206-15	Water	05/01/14	05/03/14		05/06/14
F2206-16	Water	05/01/14	05/03/14		05/06/14
F2206-19	Water	05/01/14	05/03/14		05/07/14
F2206-20	Water	05/02/14	05/03/14		05/07/14
F2206-21	Water	05/02/14	05/03/14		05/07/14
F2206-22	Water	05/02/14	05/03/14		05/07/14

*** Details For Test :** VOC-TCLVOA-10

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
F2206-01	Water	8260-Low	5030		
F2206-02	Water	8260-Low	5030		
F2206-03	Water	8260-Low	5030		
F2206-04	Water	8260-Low	5030		
F2206-05	Water	8260-Low	5030		
F2206-06	Water	8260-Low	5030		
F2206-07	Water	8260-Low	5030		
F2206-08	Water	8260-Low	5030		
F2206-09	Water	8260-Low	5030		
F2206-10	Solid	8260C	5035		
F2206-11	Water	8260-Low	5030		
F2206-12	Water	8260-Low	5030		
F2206-13	Water	8260-Low	5030		
F2206-14	Water	8260-Low	5030		
F2206-15	Water	8260-Low	5030		
F2206-16	Water	8260-Low	5030		
F2206-17	Water	8260-Low	5030		
F2206-18	Water	8260-Low	5030		
F2206-19	Water	8260-Low	5030		
F2206-20	Water	8260-Low	5030		
F2206-21	Water	8260-Low	5030		
F2206-22	Water	8260-Low	5030		

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

C.T. Male Associates, P.C.,
Project Name: Old Champlain Mill Property
Project # N/A
Chemtech Project # F2206
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 05/03/2014.
21 Water samples were received on 05/03/2014.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_D were done using GC column RTX-VMS which is 20 meters, 0.18 mm id, 1.0 um df, Restek Cat. #49914. The Trap was supplied by SUPELCO, K (VOACARB 3000) , TEKMAR LSC-2000 Concentrator.The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of VOC-TCLVOA-10 was based on method 8260-Low.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements except for ANOMALY-1(3), ANOMALY-1(3)RE.
The Retention Times were acceptable for all samples.
The MS {F2205-06MS} with File ID: VD041677.D recoveries met the requirements for all compounds except for 1,1,2-Trichloroethane[141%], 1,2-Dibromoethane[148%], 1,4-Dichlorobenzene[130%], 2-Hexanone[141%], 4-Methyl-2-Pentanone[141%], Bromodichloromethane[147%], Bromoform[152%], Carbon Tetrachloride[160%], Chlorobenzene[133%], cis-1,3-Dichloropropene[142%], Dibromochloromethane[163%], o-Xylene[136%], Styrene[149%], t-1,3-Dichloropropene[149%] and Toluene[135%] .
The MSD recoveries met the acceptable requirements .
The RPD for {F2205-06MSD} with File ID: VD041678.D recoveries did not meet criteria except for Chloromethane and Vinyl chloride .
The Blank Spike for {VD0505SBS01} with File ID: VD041666.D met requirements for all samples except for Bromomethane[61%], Isopropylbenzene[125%] .
The Blank Spike for {VN0506WBS02} with File ID: VN015128.D met requirements for all samples except for 1,1,2,2-Tetrachloroethane[131%], Bromoform[133%] .The Blank

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Spike for {VN0508WBS01} with File ID: VN015198.D met requirements for all samples except for 1,2-Dibromoethane[121%], Bromodichloromethane[122%] .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The %RSD is greater than 20% in the Initial Calibration (Method 82D050114S.M) for Chloroethane & 1,2-Dibromo-3-Chloropropane these compounds are passing on Quadratic regression while Bromomethane & Bromoform these compounds are passing on Linear regression .
The %RSD is greater than 15% in the Initial Calibration (Method 82N042314W.M) Carbon Disulfide, Methyl Acetate , Cyclohexane , 1,1,2,2-Tetrachloroethane , 1,2,3-Trichlorobenzene these compounds are passing on Linear regression while 1,2,4-Trichlorobenzene this compound is passing on Quadratic Regression .
The Continuous Calibration File ID VD041662.D met the requirements except for Vinyl Chloride,Carbon Tetrachloride,Bromoform,1,2,4-Trichlorobenzene,Dibromofluoromethane and 4-Bromofluorobenzene .The Continuous Calibration File ID VN015126.D met the requirements except for Styrene,Bromoform,1,2-Dibromo-3-Chloropropane,Methyl Acetate and 1,2,4-Trichlorobenzene but they were not detected in any samples .The Continuous Calibration File ID VN015150.D met the requirements except for Trichlorofluoromethane,Carbon Tetrachloride,1,2-Dichloroethane,Bromodichloromethane,t-1,3-Dichloropropene,Dibromochloromethane,Styrene,Bromoform,Methyl Acetate and 1,2,4-Trichlorobenzene but they were not detected in any samples .The Continuous Calibration File ID VN015196.D met the requirements except for Trichlorofluoromethane,Carbon Tetrachloride,1,2-Dichloroethane,Bromodichloromethane,t-1,3-Dichloropropene,2-Hexanone,Dibromochloromethane,Styrene,Bromoform,Methyl Acetate,Carbon Disulfide and 1,2,4-Trichlorobenzene but they were not detected in any samples .
The Tuning criteria met requirements.
Samples BMW-19A was diluted due to bad matrix.
Samples BMW-14A, BMW-19A, MW-10A, BMW-15A, FD050114, MW-3A and BMW-13A were diluted due to high concentrations.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ Mildred V Reyes

APPROVED
By Mildred V Reyes at 11:00 am, May 16, 2014

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LAB CHRONICLE

OrderID:	F2206	**OrderDate:**	5/5/2014 9:25:00 AM
Client:	C.T. Male Associates, P.C.,	**Project:**	Old Champlain Mill Property
Contact:	Kirk Moline	**Location:**	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
F2206-01	**BMW-11A**	**Water**			**05/02/14**			**05/03/14**
			VOC-TCLVOA-10	8260-Low			05/06/14	
F2206-02	**MW-8A**	**Water**			**05/02/14**			**05/03/14**
			VOC-TCLVOA-10	8260-Low			05/06/14	
F2206-03	**BMW-14A**	**Water**			**05/02/14**			**05/03/14**
			VOC-TCLVOA-10	8260-Low			05/06/14	
F2206-03DL	**BMW-14ADL**	**Water**			**05/02/14**			**05/03/14**
			VOC-TCLVOA-10	8260-Low			05/07/14	
F2206-04	**BMW-18A**	**Water**			**05/02/14**			**05/03/14**
			VOC-TCLVOA-10	8260-Low			05/07/14	
F2206-05	**BMW-19A**	**Water**			**05/02/14**			**05/03/14**
			VOC-TCLVOA-10	8260-Low			05/06/14	
F2206-05DL	**BMW-19ADL**	**Water**			**05/02/14**			**05/03/14**
			VOC-TCLVOA-10	8260-Low			05/07/14	
F2206-06	**MW-10A**	**Water**			**05/02/14**			**05/03/14**
			VOC-TCLVOA-10	8260-Low			05/06/14	
F2206-06DL	**MW-10ADL**	**Water**			**05/02/14**			**05/03/14**
			VOC-TCLVOA-10	8260-Low			05/07/14	
F2206-07	**MW-2A**	**Water**			**05/02/14**			**05/03/14**
			VOC-TCLVOA-10	8260-Low			05/06/14	
F2206-08	**MW-1A**	**Water**			**05/02/14**			**05/03/14**
			VOC-TCLVOA-10	8260-Low			05/06/14	
F2206-09	**BMW-17A**	**Water**			**05/02/14**			**05/03/14**
			VOC-TCLVOA-10	8260-Low			05/06/14	

LAB CHRONICLE

F2206-10	**ANOMALY-1(3)**	**SOIL**			**05/02/14**		**05/03/14**
			VOC-TCLVOA-10	8260C		05/05/14	
F2206-10RE	**ANOMALY-1(3)RE**	**SOIL**			**05/02/14**		**05/03/14**
			VOC-TCLVOA-10	8260C		05/05/14	
F2206-11	**BMW-15A**	**Water**			**05/01/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/06/14	
F2206-11DL	**BMW-15ADL**	**Water**			**05/01/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/07/14	
F2206-12	**FD050114**	**Water**			**05/01/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/06/14	
F2206-12DL	**FD050114DL**	**Water**			**05/01/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/07/14	
F2206-13	**TRIPBLANK**	**Water**			**04/29/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/07/14	
F2206-14	**MW-3A**	**Water**			**05/01/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/07/14	
F2206-14DL	**MW-3ADL**	**Water**			**05/01/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/08/14	
F2206-15	**EB050114**	**Water**			**05/01/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/06/14	
F2206-16	**MW-4A**	**Water**			**05/01/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/06/14	
F2206-19	**MW-5A**	**Water**			**05/01/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/07/14	
F2206-20	**BMW-13A**	**Water**			**05/02/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/07/14	
F2206-20DL	**BMW-13ADL**	**Water**			**05/02/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/07/14	
F2206-21	**BMW-12A**	**Water**			**05/02/14**		**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/07/14	

LAB CHRONICLE

F2206-22	**BMW-16A**	**Water**			**05/02/14**	**05/03/14**
			VOC-TCLVOA-10	8260-Low		05/07/14

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Hit Summary Sheet
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**BMW-11A**								
F2206-01	BMW-11A	Water	cis-1,2-Dichloroethene	0.81	J	0.2	0.2	1	ug/L
			Total Voc :	0.81					
			Total Concentration:	0.81					
Client ID:	**MW-8A**								
F2206-02	MW-8A	Water	cis-1,2-Dichloroethene	0.93	J	0.2	0.2	1	ug/L
			Total Voc :	0.93					
			Total Concentration:	0.93					
Client ID:	**BMW-14A**								
F2206-03	BMW-14A	Water	Vinyl Chloride	10.80		0.2	0.2	1	ug/L
F2206-03	BMW-14A	Water	1,1-Dichloroethene	1.40		0.2	0.2	1	ug/L
F2206-03	BMW-14A	Water	trans-1,2-Dichloroethene	7.80		0.2	0.2	1	ug/L
F2206-03	BMW-14A	Water	cis-1,2-Dichloroethene	460.00	E	0.2	0.2	1	ug/L
F2206-03	BMW-14A	Water	Trichloroethene	0.81	J	0.2	0.2	1	ug/L
			Total Voc :	480.81					
			Total Concentration:	480.81					
Client ID:	**BMW-14ADL**								
F2206-03DL	BMW-14ADL	Water	Vinyl Chloride	13.20	D	2	2	10	ug/L
F2206-03DL	BMW-14ADL	Water	trans-1,2-Dichloroethene	8.80	JD	2	2	10	ug/L
F2206-03DL	BMW-14ADL	Water	cis-1,2-Dichloroethene	460.00	D	2	2	10	ug/L
			Total Voc :	482					
			Total Concentration:	482					
Client ID:	**BMW-18A**								
F2206-04	BMW-18A	Water	Vinyl Chloride	0.42	J	0.2	0.2	1	ug/L
F2206-04	BMW-18A	Water	cis-1,2-Dichloroethene	3.20		0.2	0.2	1	ug/L
			Total Voc :	3.62					
			Total Concentration:	3.62					
Client ID:	**BMW-19A**								
F2206-05	BMW-19A	Water	Vinyl Chloride	1,400.00		4	4	20	ug/L
F2206-05	BMW-19A	Water	trans-1,2-Dichloroethene	10.00	J	4	4	20	ug/L
F2206-05	BMW-19A	Water	Cyclohexane	59.60		4	4	20	ug/L
F2206-05	BMW-19A	Water	cis-1,2-Dichloroethene	5,100.00	E	4	4	20	ug/L
			Total Voc :	6569.6					
			Total Concentration:	6569.6					
Client ID:	**BMW-19ADL**								
F2206-05DL	BMW-19ADL	Water	Vinyl Chloride	1,500.00	D	20	20	100	ug/L
F2206-05DL	BMW-19ADL	Water	cis-1,2-Dichloroethene	5,200.00	D	20	20	100	ug/L
			Total Voc :	6700					
			Total Concentration:	6700					
Client ID:	**MW-10A**								
F2206-06	MW-10A	Water	Vinyl Chloride	410.00	E	0.2	0.2	1	ug/L

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Hit Summary Sheet
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F2206-06	MW-10A	Water	1,1-Dichloroethene	2.50		0.2	0.2	1	ug/L
F2206-06	MW-10A	Water	trans-1,2-Dichloroethene	6.20		0.2	0.2	1	ug/L
F2206-06	MW-10A	Water	cis-1,2-Dichloroethene	1,800.00	E	0.2	0.2	1	ug/L
F2206-06	MW-10A	Water	Trichloroethene	16.30		0.2	0.2	1	ug/L
			Total Voc :	2235					
			Total Concentration:	2235					
Client ID:	**MW-10ADL**								
F2206-06DL	MW-10ADL	Water	Vinyl Chloride	400.00	D	8	8	40	ug/L
F2206-06DL	MW-10ADL	Water	cis-1,2-Dichloroethene	1,800.00	D	8	8	40	ug/L
F2206-06DL	MW-10ADL	Water	Trichloroethene	14.00	JD	8	8	40	ug/L
			Total Voc :	2214					
			Total Concentration:	2214					
Client ID:	**MW-2A**								
F2206-07	MW-2A	Water	1,1-Dichloroethene	1.80		0.2	0.2	1	ug/L
F2206-07	MW-2A	Water	trans-1,2-Dichloroethene	0.66	J	0.2	0.2	1	ug/L
F2206-07	MW-2A	Water	cis-1,2-Dichloroethene	61.30		0.2	0.2	1	ug/L
F2206-07	MW-2A	Water	Trichloroethene	75.40		0.2	0.2	1	ug/L
			Total Voc :	139.16					
			Total Concentration:	139.16					
Client ID:	**MW-1A**								
F2206-08	MW-1A	Water	Vinyl Chloride	21.90		0.2	0.2	1	ug/L
F2206-08	MW-1A	Water	1,1-Dichloroethene	0.29	J	0.2	0.2	1	ug/L
F2206-08	MW-1A	Water	cis-1,2-Dichloroethene	41.40		0.2	0.2	1	ug/L
			Total Voc :	63.59					
			Total Concentration:	63.59					
Client ID:	**BMW-17A**								
F2206-09	BMW-17A	Water	Vinyl Chloride	22.10		0.2	0.2	1	ug/L
F2206-09	BMW-17A	Water	cis-1,2-Dichloroethene	1.10		0.2	0.2	1	ug/L
			Total Voc :	23.2					
			Total Concentration:	23.2					
Client ID:	**ANOMALY-1(3)**								
F2206-10	ANOMALY-1(3)	SOIL	cis-1,2-Dichloroethene	1.60	J	0.5	0.5	5	ug/Kg
F2206-10	ANOMALY-1(3)	SOIL	Trichloroethene	1.50	J	0.5	0.5	5	ug/Kg
			Total Voc :	3.1					
			Total Concentration:	3.1					
Client ID:	**ANOMALY-1(3)RE**								
F2206-10RE	ANOMALY-1(3)RE	SOIL	cis-1,2-Dichloroethene	1.90	J	0.5	0.5	5	ug/Kg
F2206-10RE	ANOMALY-1(3)RE	SOIL	Trichloroethene	1.90	J	0.5	0.5	5	ug/Kg
			Total Voc :	3.8					
			Total Concentration:	3.8					
Client ID:	**BMW-15A**								

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Hit Summary Sheet
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F2206-11	BMW-15A	Water	Vinyl Chloride	220.00	E	0.2	0.2	1	ug/L
F2206-11	BMW-15A	Water	1,1-Dichloroethene	1.60		0.2	0.2	1	ug/L
F2206-11	BMW-15A	Water	trans-1,2-Dichloroethene	24.50		0.2	0.2	1	ug/L
F2206-11	BMW-15A	Water	cis-1,2-Dichloroethene	670.00	E	0.2	0.2	1	ug/L
F2206-11	BMW-15A	Water	Trichloroethene	9.10		0.2	0.2	1	ug/L
			Total Voc :	925.2					
			Total Concentration:	925.2					
Client ID:	**BMW-15ADL**								
F2206-11DL	BMW-15ADL	Water	Vinyl Chloride	220.00	D	2	2	10	ug/L
F2206-11DL	BMW-15ADL	Water	trans-1,2-Dichloroethene	23.00	D	2	2	10	ug/L
F2206-11DL	BMW-15ADL	Water	cis-1,2-Dichloroethene	620.00	D	2	2	10	ug/L
F2206-11DL	BMW-15ADL	Water	Trichloroethene	10.10	D	2	2	10	ug/L
			Total Voc :	873.1					
			Total Concentration:	873.1					
Client ID:	**FD050114**								
F2206-12	FD050114	Water	Vinyl Chloride	210.00	E	0.2	0.2	1	ug/L
F2206-12	FD050114	Water	1,1-Dichloroethene	1.50		0.2	0.2	1	ug/L
F2206-12	FD050114	Water	trans-1,2-Dichloroethene	23.20		0.2	0.2	1	ug/L
F2206-12	FD050114	Water	cis-1,2-Dichloroethene	640.00	E	0.2	0.2	1	ug/L
F2206-12	FD050114	Water	Trichloroethene	9.00		0.2	0.2	1	ug/L
			Total Voc :	883.7					
			Total Concentration:	883.7					
Client ID:	**FD050114DL**								
F2206-12DL	FD050114DL	Water	Vinyl Chloride	200.00	D	2	2	10	ug/L
F2206-12DL	FD050114DL	Water	trans-1,2-Dichloroethene	23.20	D	2	2	10	ug/L
F2206-12DL	FD050114DL	Water	cis-1,2-Dichloroethene	580.00	D	2	2	10	ug/L
F2206-12DL	FD050114DL	Water	Trichloroethene	7.90	JD	2	2	10	ug/L
			Total Voc :	811.1					
			Total Concentration:	811.1					
Client ID:	**TRIPBLANK**								
F2206-13	TRIPBLANK	Water	Acetone	43.60		0.5	1	5	ug/L
F2206-13	TRIPBLANK	Water	Methylene Chloride	0.88	J	0.2	0.2	1	ug/L
F2206-13	TRIPBLANK	Water	2-Butanone	5.50		1.3	2.5	5	ug/L
			Total Voc :	49.98					
			Total Concentration:	49.98					
Client ID:	**MW-3A**								
F2206-14	MW-3A	Water	Vinyl Chloride	50.90		0.2	0.2	1	ug/L
F2206-14	MW-3A	Water	1,1-Dichloroethene	0.32	J	0.2	0.2	1	ug/L
F2206-14	MW-3A	Water	trans-1,2-Dichloroethene	0.69	J	0.2	0.2	1	ug/L
F2206-14	MW-3A	Water	cis-1,2-Dichloroethene	210.00	E	0.2	0.2	1	ug/L

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Hit Summary Sheet
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Voc :	261.91					
			Total Concentration:	261.91					
Client ID:	**MW-3ADL**								
F2206-14DL	MW-3ADL	Water	Vinyl Chloride	46.60	D	1	1	5	ug/L
F2206-14DL	MW-3ADL	Water	cis-1,2-Dichloroethene	200.00	D	1	1	5	ug/L
			Total Voc :	246.6					
			Total Concentration:	246.6					
Client ID:	**MW-4A**								
F2206-16	MW-4A	Water	cis-1,2-Dichloroethene	5.00		0.2	0.2	1	ug/L
F2206-16	MW-4A	Water	Trichloroethene	1.20		0.2	0.2	1	ug/L
			Total Voc :	6.2					
			Total Concentration:	6.2					
Client ID:	**MW-5A**								
F2206-19	MW-5A	Water	cis-1,2-Dichloroethene	0.94	J	0.2	0.2	1	ug/L
F2206-19	MW-5A	Water	Trichloroethene	1.10		0.2	0.2	1	ug/L
			Total Voc :	2.04					
			Total Concentration:	2.04					
Client ID:	**BMW-13A**								
F2206-20	BMW-13A	Water	Vinyl Chloride	170.00		0.2	0.2	1	ug/L
F2206-20	BMW-13A	Water	1,1-Dichloroethene	0.92	J	0.2	0.2	1	ug/L
F2206-20	BMW-13A	Water	trans-1,2-Dichloroethene	1.30		0.2	0.2	1	ug/L
F2206-20	BMW-13A	Water	cis-1,2-Dichloroethene	600.00	E	0.2	0.2	1	ug/L
			Total Voc :	772.22					
			Total Concentration:	772.22					
Client ID:	**BMW-13ADL**								
F2206-20DL	BMW-13ADL	Water	Vinyl Chloride	190.00	D	2	2	10	ug/L
F2206-20DL	BMW-13ADL	Water	cis-1,2-Dichloroethene	630.00	D	2	2	10	ug/L
			Total Voc :	820					
			Total Concentration:	820					
Client ID:	**BMW-12A**								
F2206-21	BMW-12A	Water	Vinyl Chloride	2.30		0.2	0.2	1	ug/L
F2206-21	BMW-12A	Water	cis-1,2-Dichloroethene	1.60		0.2	0.2	1	ug/L
			Total Voc :	3.9					
			Total Concentration:	3.9					

SAMPLE DATA

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-11A	SDG No.:	F2206
Lab Sample ID:	F2206-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015108.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.2	U	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.81	J	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-11A	SDG No.:	F2206
Lab Sample ID:	F2206-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015108.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.2		61 - 141		110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		69 - 133		105%	SPK: 50
2037-26-5	Toluene-d8	55.7		65 - 126		111%	SPK: 50
460-00-4	4-Bromofluorobenzene	47		58 - 135		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	233922	7.87				
540-36-3	1,4-Difluorobenzene	361582	8.78				
3114-55-4	Chlorobenzene-d5	308215	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	91787	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-11A	SDG No.:	F2206
Lab Sample ID:	F2206-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015108.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-8A	SDG No.:	F2206
Lab Sample ID:	F2206-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015109.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.2	U	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.93	J	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-8A	SDG No.:	F2206
Lab Sample ID:	F2206-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015109.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.1		61 - 141		112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		69 - 133		105%	SPK: 50
2037-26-5	Toluene-d8	55.6		65 - 126		111%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		58 - 135		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	259156	7.87				
540-36-3	1,4-Difluorobenzene	408105	8.79				
3114-55-4	Chlorobenzene-d5	350865	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	105295	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-8A	SDG No.:	F2206
Lab Sample ID:	F2206-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015109.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-14A	SDG No.:	F2206
Lab Sample ID:	F2206-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015110.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	10.8		0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	1.4		0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	7.8		0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	460	E	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.81	J	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-14A	SDG No.:	F2206
Lab Sample ID:	F2206-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015110.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.7		61 - 141		109%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		69 - 133		108%	SPK: 50
2037-26-5	Toluene-d8	55.9		65 - 126		112%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		58 - 135		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	262570	7.87				
540-36-3	1,4-Difluorobenzene	398613	8.79				
3114-55-4	Chlorobenzene-d5	343101	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	102634	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-14A	SDG No.:	F2206
Lab Sample ID:	F2206-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015110.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-14ADL	SDG No.:	F2206
Lab Sample ID:	F2206-03DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015130.D	10		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2	UD	2	2	10	ug/L
74-87-3	Chloromethane	2	UD	2	2	10	ug/L
75-01-4	Vinyl Chloride	13.2	D	2	2	10	ug/L
74-83-9	Bromomethane	2	UD	2	2	10	ug/L
75-00-3	Chloroethane	5	UD	2	5	10	ug/L
75-69-4	Trichlorofluoromethane	2	UD	2	2	10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2	UD	2	2	10	ug/L
75-35-4	1,1-Dichloroethene	2	UD	2	2	10	ug/L
67-64-1	Acetone	10	UD	5	10	50	ug/L
75-15-0	Carbon Disulfide	2	UD	2	2	10	ug/L
1634-04-4	Methyl tert-butyl Ether	5	UD	3.5	5	10	ug/L
79-20-9	Methyl Acetate	5	UD	2	5	10	ug/L
75-09-2	Methylene Chloride	2	UD	2	2	10	ug/L
156-60-5	trans-1,2-Dichloroethene	8.8	JD	2	2	10	ug/L
75-34-3	1,1-Dichloroethane	2	UD	2	2	10	ug/L
110-82-7	Cyclohexane	2	UD	2	2	10	ug/L
78-93-3	2-Butanone	25	UD	13.2	25	50	ug/L
56-23-5	Carbon Tetrachloride	2	UD	2	2	10	ug/L
156-59-2	cis-1,2-Dichloroethene	460	D	2	2	10	ug/L
74-97-5	Bromochloromethane	5	UD	2	5	10	ug/L
67-66-3	Chloroform	2	UD	2	2	10	ug/L
71-55-6	1,1,1-Trichloroethane	2	UD	2	2	10	ug/L
108-87-2	Methylcyclohexane	2	UD	2	2	10	ug/L
71-43-2	Benzene	2	UD	2	2	10	ug/L
107-06-2	1,2-Dichloroethane	2	UD	2	2	10	ug/L
79-01-6	Trichloroethene	2	UD	2	2	10	ug/L
78-87-5	1,2-Dichloropropane	2	UD	2	2	10	ug/L
75-27-4	Bromodichloromethane	2	UD	2	2	10	ug/L
108-10-1	4-Methyl-2-Pentanone	10	UD	10	10	50	ug/L
108-88-3	Toluene	2	UD	2	2	10	ug/L
10061-02-6	t-1,3-Dichloropropene	2	UD	2	2	10	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-14ADL	SDG No.:	F2206
Lab Sample ID:	F2206-03DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015130.D	10		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2	UD	2	2	10	ug/L
79-00-5	1,1,2-Trichloroethane	2	UD	2	2	10	ug/L
591-78-6	2-Hexanone	25	UD	19.4	25	50	ug/L
124-48-1	Dibromochloromethane	2	UD	2	2	10	ug/L
106-93-4	1,2-Dibromoethane	2	UD	2	2	10	ug/L
127-18-4	Tetrachloroethene	2	UD	2	2	10	ug/L
108-90-7	Chlorobenzene	2	UD	2	2	10	ug/L
100-41-4	Ethyl Benzene	2	UD	2	2	10	ug/L
179601-23-1	m/p-Xylenes	4	UD	4	4	20	ug/L
95-47-6	o-Xylene	2	UD	2	2	10	ug/L
100-42-5	Styrene	2	UD	2	2	10	ug/L
75-25-2	Bromoform	2	UDQ	2	2	10	ug/L
98-82-8	Isopropylbenzene	2	UD	2	2	10	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2	UDQ	2	2	10	ug/L
541-73-1	1,3-Dichlorobenzene	2	UD	2	2	10	ug/L
106-46-7	1,4-Dichlorobenzene	2	UD	2	2	10	ug/L
95-50-1	1,2-Dichlorobenzene	2	UD	2	2	10	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	2	UD	2	2	10	ug/L
120-82-1	1,2,4-Trichlorobenzene	2	UD	2	2	10	ug/L
87-61-6	1,2,3-Trichlorobenzene	2	UD	2	2	10	ug/L
123-91-1	1,4-Dioxane	1000	UD	1000	1000	1000	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.3		61 - 141		113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		69 - 133		108%	SPK: 50
2037-26-5	Toluene-d8	56.7		65 - 126		113%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.7		58 - 135		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	228707	7.87				
540-36-3	1,4-Difluorobenzene	345465	8.78				
3114-55-4	Chlorobenzene-d5	296864	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	86009	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-14ADL	SDG No.:	F2206
Lab Sample ID:	F2206-03DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015130.D	10		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-18A	SDG No.:	F2206
Lab Sample ID:	F2206-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015141.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.42	J	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	3.2		0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-18A	SDG No.:	F2206
Lab Sample ID:	F2206-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015141.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	UQ	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	UQ	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.4		61 - 141		119%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		69 - 133		106%	SPK: 50
2037-26-5	Toluene-d8	56.5		65 - 126		113%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		58 - 135		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	220397	7.87				
540-36-3	1,4-Difluorobenzene	348687	8.79				
3114-55-4	Chlorobenzene-d5	308113	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	90724	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-18A	SDG No.:	F2206
Lab Sample ID:	F2206-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015141.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-19A	SDG No.:	F2206
Lab Sample ID:	F2206-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015113.D	20		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4	U	4	4	20	ug/L
74-87-3	Chloromethane	4	U	4	4	20	ug/L
75-01-4	Vinyl Chloride	1400		4	4	20	ug/L
74-83-9	Bromomethane	4	U	4	4	20	ug/L
75-00-3	Chloroethane	10	U	4	10	20	ug/L
75-69-4	Trichlorofluoromethane	4	U	4	4	20	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	4	U	4	4	20	ug/L
75-35-4	1,1-Dichloroethene	4	U	4	4	20	ug/L
67-64-1	Acetone	20	U	10	20	100	ug/L
75-15-0	Carbon Disulfide	4	U	4	4	20	ug/L
1634-04-4	Methyl tert-butyl Ether	10	U	7	10	20	ug/L
79-20-9	Methyl Acetate	10	U	4	10	20	ug/L
75-09-2	Methylene Chloride	4	U	4	4	20	ug/L
156-60-5	trans-1,2-Dichloroethene	10	J	4	4	20	ug/L
75-34-3	1,1-Dichloroethane	4	U	4	4	20	ug/L
110-82-7	Cyclohexane	59.6		4	4	20	ug/L
78-93-3	2-Butanone	50	U	26.4	50	100	ug/L
56-23-5	Carbon Tetrachloride	4	U	4	4	20	ug/L
156-59-2	cis-1,2-Dichloroethene	5100	E	4	4	20	ug/L
74-97-5	Bromochloromethane	10	U	4	10	20	ug/L
67-66-3	Chloroform	4	U	4	4	20	ug/L
71-55-6	1,1,1-Trichloroethane	4	U	4	4	20	ug/L
108-87-2	Methylcyclohexane	4	U	4	4	20	ug/L
71-43-2	Benzene	4	U	4	4	20	ug/L
107-06-2	1,2-Dichloroethane	4	U	4	4	20	ug/L
79-01-6	Trichloroethene	4	U	4	4	20	ug/L
78-87-5	1,2-Dichloropropane	4	U	4	4	20	ug/L
75-27-4	Bromodichloromethane	4	U	4	4	20	ug/L
108-10-1	4-Methyl-2-Pentanone	20	U	20	20	100	ug/L
108-88-3	Toluene	4	U	4	4	20	ug/L
10061-02-6	t-1,3-Dichloropropene	4	U	4	4	20	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-19A	SDG No.:	F2206
Lab Sample ID:	F2206-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015113.D	20		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	4	U	4	4	20	ug/L
79-00-5	1,1,2-Trichloroethane	4	U	4	4	20	ug/L
591-78-6	2-Hexanone	50	U	38.8	50	100	ug/L
124-48-1	Dibromochloromethane	4	U	4	4	20	ug/L
106-93-4	1,2-Dibromoethane	4	U	4	4	20	ug/L
127-18-4	Tetrachloroethene	4	U	4	4	20	ug/L
108-90-7	Chlorobenzene	4	U	4	4	20	ug/L
100-41-4	Ethyl Benzene	4	U	4	4	20	ug/L
179601-23-1	m/p-Xylenes	8	U	8	8	40	ug/L
95-47-6	o-Xylene	4	U	4	4	20	ug/L
100-42-5	Styrene	4	U	4	4	20	ug/L
75-25-2	Bromoform	4	U	4	4	20	ug/L
98-82-8	Isopropylbenzene	4	U	4	4	20	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	4	U	4	4	20	ug/L
541-73-1	1,3-Dichlorobenzene	4	U	4	4	20	ug/L
106-46-7	1,4-Dichlorobenzene	4	U	4	4	20	ug/L
95-50-1	1,2-Dichlorobenzene	4	U	4	4	20	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	4	U	4	4	20	ug/L
120-82-1	1,2,4-Trichlorobenzene	4	U	4	4	20	ug/L
87-61-6	1,2,3-Trichlorobenzene	4	U	4	4	20	ug/L
123-91-1	1,4-Dioxane	2000	U	2000	2000	2000	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.3		61 - 141		111%	SPK: 50
1868-53-7	Dibromofluoromethane	54.6		69 - 133		109%	SPK: 50
2037-26-5	Toluene-d8	55.4		65 - 126		111%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		58 - 135		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	256388	7.87				
540-36-3	1,4-Difluorobenzene	388836	8.78				
3114-55-4	Chlorobenzene-d5	333008	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	103463	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-19A	SDG No.:	F2206
Lab Sample ID:	F2206-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015113.D	20		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-19ADL	SDG No.:	F2206
Lab Sample ID:	F2206-05DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015131.D	100		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	20	UD	20	20	100	ug/L
74-87-3	Chloromethane	20	UD	20	20	100	ug/L
75-01-4	Vinyl Chloride	1500	D	20	20	100	ug/L
74-83-9	Bromomethane	20	UD	20	20	100	ug/L
75-00-3	Chloroethane	50	UD	20	50	100	ug/L
75-69-4	Trichlorofluoromethane	20	UD	20	20	100	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20	UD	20	20	100	ug/L
75-35-4	1,1-Dichloroethene	20	UD	20	20	100	ug/L
67-64-1	Acetone	100	UD	50	100	500	ug/L
75-15-0	Carbon Disulfide	20	UD	20	20	100	ug/L
1634-04-4	Methyl tert-butyl Ether	50	UD	35	50	100	ug/L
79-20-9	Methyl Acetate	50	UD	20	50	100	ug/L
75-09-2	Methylene Chloride	20	UD	20	20	100	ug/L
156-60-5	trans-1,2-Dichloroethene	20	UD	20	20	100	ug/L
75-34-3	1,1-Dichloroethane	20	UD	20	20	100	ug/L
110-82-7	Cyclohexane	20	UD	20	20	100	ug/L
78-93-3	2-Butanone	250	UD	130	250	500	ug/L
56-23-5	Carbon Tetrachloride	20	UD	20	20	100	ug/L
156-59-2	cis-1,2-Dichloroethene	5200	D	20	20	100	ug/L
74-97-5	Bromochloromethane	50	UD	20	50	100	ug/L
67-66-3	Chloroform	20	UD	20	20	100	ug/L
71-55-6	1,1,1-Trichloroethane	20	UD	20	20	100	ug/L
108-87-2	Methylcyclohexane	20	UD	20	20	100	ug/L
71-43-2	Benzene	20	UD	20	20	100	ug/L
107-06-2	1,2-Dichloroethane	20	UD	20	20	100	ug/L
79-01-6	Trichloroethene	20	UD	20	20	100	ug/L
78-87-5	1,2-Dichloropropane	20	UD	20	20	100	ug/L
75-27-4	Bromodichloromethane	20	UD	20	20	100	ug/L
108-10-1	4-Methyl-2-Pentanone	100	UD	100	100	500	ug/L
108-88-3	Toluene	20	UD	20	20	100	ug/L
10061-02-6	t-1,3-Dichloropropene	20	UD	20	20	100	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-19ADL	SDG No.:	F2206
Lab Sample ID:	F2206-05DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015131.D	100		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	20	UD	20	20	100	ug/L
79-00-5	1,1,2-Trichloroethane	20	UD	20	20	100	ug/L
591-78-6	2-Hexanone	250	UD	190	250	500	ug/L
124-48-1	Dibromochloromethane	20	UD	20	20	100	ug/L
106-93-4	1,2-Dibromoethane	20	UD	20	20	100	ug/L
127-18-4	Tetrachloroethene	20	UD	20	20	100	ug/L
108-90-7	Chlorobenzene	20	UD	20	20	100	ug/L
100-41-4	Ethyl Benzene	20	UD	20	20	100	ug/L
179601-23-1	m/p-Xylenes	40	UD	40	40	200	ug/L
95-47-6	o-Xylene	20	UD	20	20	100	ug/L
100-42-5	Styrene	20	UD	20	20	100	ug/L
75-25-2	Bromoform	20	UDQ	20	20	100	ug/L
98-82-8	Isopropylbenzene	20	UD	20	20	100	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20	UDQ	20	20	100	ug/L
541-73-1	1,3-Dichlorobenzene	20	UD	20	20	100	ug/L
106-46-7	1,4-Dichlorobenzene	20	UD	20	20	100	ug/L
95-50-1	1,2-Dichlorobenzene	20	UD	20	20	100	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20	UD	20	20	100	ug/L
120-82-1	1,2,4-Trichlorobenzene	20	UD	20	20	100	ug/L
87-61-6	1,2,3-Trichlorobenzene	20	UD	20	20	100	ug/L
123-91-1	1,4-Dioxane	10000	UD	10000	10000	10000	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.8		61 - 141		116%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		69 - 133		106%	SPK: 50
2037-26-5	Toluene-d8	56.2		65 - 126		112%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		58 - 135		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	244338	7.87				
540-36-3	1,4-Difluorobenzene	384831	8.78				
3114-55-4	Chlorobenzene-d5	339457	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	104490	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-19ADL	SDG No.:	F2206
Lab Sample ID:	F2206-05DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015131.D	100		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-10A	SDG No.:	F2206
Lab Sample ID:	F2206-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015114.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	410	E	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	2.5		0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	6.2		0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	1800	E	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	16.3		0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-10A	SDG No.:	F2206
Lab Sample ID:	F2206-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015114.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.7		61 - 141		111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		69 - 133		105%	SPK: 50
2037-26-5	Toluene-d8	56.3		65 - 126		113%	SPK: 50
460-00-4	4-Bromofluorobenzene	48		58 - 135		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	266883	7.87				
540-36-3	1,4-Difluorobenzene	410047	8.78				
3114-55-4	Chlorobenzene-d5	348765	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	106095	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-10A	SDG No.:	F2206
Lab Sample ID:	F2206-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015114.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-10ADL	SDG No.:	F2206
Lab Sample ID:	F2206-06DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015132.D	40		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8	UD	8	8	40	ug/L
74-87-3	Chloromethane	8	UD	8	8	40	ug/L
75-01-4	Vinyl Chloride	400	D	8	8	40	ug/L
74-83-9	Bromomethane	8	UD	8	8	40	ug/L
75-00-3	Chloroethane	20	UD	8	20	40	ug/L
75-69-4	Trichlorofluoromethane	8	UD	8	8	40	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	8	UD	8	8	40	ug/L
75-35-4	1,1-Dichloroethene	8	UD	8	8	40	ug/L
67-64-1	Acetone	40	UD	20	40	200	ug/L
75-15-0	Carbon Disulfide	8	UD	8	8	40	ug/L
1634-04-4	Methyl tert-butyl Ether	20	UD	14	20	40	ug/L
79-20-9	Methyl Acetate	20	UD	8	20	40	ug/L
75-09-2	Methylene Chloride	8	UD	8	8	40	ug/L
156-60-5	trans-1,2-Dichloroethene	8	UD	8	8	40	ug/L
75-34-3	1,1-Dichloroethane	8	UD	8	8	40	ug/L
110-82-7	Cyclohexane	8	UD	8	8	40	ug/L
78-93-3	2-Butanone	100	UD	52.8	100	200	ug/L
56-23-5	Carbon Tetrachloride	8	UD	8	8	40	ug/L
156-59-2	cis-1,2-Dichloroethene	1800	D	8	8	40	ug/L
74-97-5	Bromochloromethane	20	UD	8	20	40	ug/L
67-66-3	Chloroform	8	UD	8	8	40	ug/L
71-55-6	1,1,1-Trichloroethane	8	UD	8	8	40	ug/L
108-87-2	Methylcyclohexane	8	UD	8	8	40	ug/L
71-43-2	Benzene	8	UD	8	8	40	ug/L
107-06-2	1,2-Dichloroethane	8	UD	8	8	40	ug/L
79-01-6	Trichloroethene	14	JD	8	8	40	ug/L
78-87-5	1,2-Dichloropropane	8	UD	8	8	40	ug/L
75-27-4	Bromodichloromethane	8	UD	8	8	40	ug/L
108-10-1	4-Methyl-2-Pentanone	40	UD	40	40	200	ug/L
108-88-3	Toluene	8	UD	8	8	40	ug/L
10061-02-6	t-1,3-Dichloropropene	8	UD	8	8	40	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-10ADL	SDG No.:	F2206
Lab Sample ID:	F2206-06DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015132.D	40		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	8	UD	8	8	40	ug/L
79-00-5	1,1,2-Trichloroethane	8	UD	8	8	40	ug/L
591-78-6	2-Hexanone	100	UD	77.6	100	200	ug/L
124-48-1	Dibromochloromethane	8	UD	8	8	40	ug/L
106-93-4	1,2-Dibromoethane	8	UD	8	8	40	ug/L
127-18-4	Tetrachloroethene	8	UD	8	8	40	ug/L
108-90-7	Chlorobenzene	8	UD	8	8	40	ug/L
100-41-4	Ethyl Benzene	8	UD	8	8	40	ug/L
179601-23-1	m/p-Xylenes	16	UD	16	16	80	ug/L
95-47-6	o-Xylene	8	UD	8	8	40	ug/L
100-42-5	Styrene	8	UD	8	8	40	ug/L
75-25-2	Bromoform	8	UDQ	8	8	40	ug/L
98-82-8	Isopropylbenzene	8	UD	8	8	40	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	8	UDQ	8	8	40	ug/L
541-73-1	1,3-Dichlorobenzene	8	UD	8	8	40	ug/L
106-46-7	1,4-Dichlorobenzene	8	UD	8	8	40	ug/L
95-50-1	1,2-Dichlorobenzene	8	UD	8	8	40	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	8	UD	8	8	40	ug/L
120-82-1	1,2,4-Trichlorobenzene	8	UD	8	8	40	ug/L
87-61-6	1,2,3-Trichlorobenzene	8	UD	8	8	40	ug/L
123-91-1	1,4-Dioxane	4000	UD	4000	4000	4000	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.7		61 - 141		113%	SPK: 50
1868-53-7	Dibromofluoromethane	54.4		69 - 133		109%	SPK: 50
2037-26-5	Toluene-d8	56.8		65 - 126		114%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		58 - 135		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	253969	7.87				
540-36-3	1,4-Difluorobenzene	390454	8.79				
3114-55-4	Chlorobenzene-d5	350149	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	108192	13.56				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-10ADL	SDG No.:	F2206
Lab Sample ID:	F2206-06DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015132.D	40		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-2A	SDG No.:	F2206
Lab Sample ID:	F2206-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015115.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.2	U	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	1.8		0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.66	J	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	61.3		0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	75.4		0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-2A	SDG No.:	F2206
Lab Sample ID:	F2206-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015115.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.9		61 - 141		116%	SPK: 50
1868-53-7	Dibromofluoromethane	54		69 - 133		108%	SPK: 50
2037-26-5	Toluene-d8	56.8		65 - 126		114%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		58 - 135		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	262739	7.87				
540-36-3	1,4-Difluorobenzene	408858	8.79				
3114-55-4	Chlorobenzene-d5	355177	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	112835	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-2A	SDG No.:	F2206
Lab Sample ID:	F2206-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015115.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-1A	SDG No.:	F2206
Lab Sample ID:	F2206-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015117.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	21.9		0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.29	J	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	41.4		0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-1A	SDG No.:	F2206
Lab Sample ID:	F2206-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015117.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.4		61 - 141		115%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		69 - 133		109%	SPK: 50
2037-26-5	Toluene-d8	57.3		65 - 126		115%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		58 - 135		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	258593	7.87				
540-36-3	1,4-Difluorobenzene	401739	8.79				
3114-55-4	Chlorobenzene-d5	357404	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	114394	13.56				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-1A	SDG No.:	F2206
Lab Sample ID:	F2206-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015117.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-17A	SDG No.:	F2206
Lab Sample ID:	F2206-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015118.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	22.1		0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	1.1		0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-17A	SDG No.:	F2206
Lab Sample ID:	F2206-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015118.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	60.2		61 - 141		120%	SPK: 50
1868-53-7	Dibromofluoromethane	54.2		69 - 133		108%	SPK: 50
2037-26-5	Toluene-d8	57.7		65 - 126		115%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.5		58 - 135		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	249178	7.87				
540-36-3	1,4-Difluorobenzene	396533	8.79				
3114-55-4	Chlorobenzene-d5	350643	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	109612	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-17A	SDG No.:	F2206
Lab Sample ID:	F2206-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015118.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	3.8	J			7.47	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	ANOMALY-1(3)	SDG No.:	F2206
Lab Sample ID:	F2206-10	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	19.8
Sample Wt/Vol:	6.22 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041672.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.5	0.5	5	ug/Kg
74-87-3	Chloromethane	0.5	U	0.5	0.5	5	ug/Kg
75-01-4	Vinyl Chloride	0.5	U	0.5	0.5	5	ug/Kg
74-83-9	Bromomethane	1	UQ	1	1	5	ug/Kg
75-00-3	Chloroethane	0.5	U	0.5	0.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	0.5	U	0.5	0.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.5	0.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
67-64-1	Acetone	2.5	U	2.5	2.5	25.1	ug/Kg
75-15-0	Carbon Disulfide	0.5	U	0.5	0.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.5	0.5	5	ug/Kg
79-20-9	Methyl Acetate	1	U	1	1	5	ug/Kg
75-09-2	Methylene Chloride	0.5	U	0.5	0.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	0.5	U	0.5	0.5	5	ug/Kg
110-82-7	Cyclohexane	0.5	U	0.5	0.5	5	ug/Kg
78-93-3	2-Butanone	7.5	U	3.1	7.5	25.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.5	U	0.5	0.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.6	J	0.5	0.5	5	ug/Kg
74-97-5	Bromochloromethane	0.5	U	0.5	0.5	5	ug/Kg
67-66-3	Chloroform	0.5	U	0.5	0.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.5	U	0.5	0.5	5	ug/Kg
108-87-2	Methylcyclohexane	0.5	U	0.5	0.5	5	ug/Kg
71-43-2	Benzene	0.5	U	0.38	0.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	0.5	U	0.5	0.5	5	ug/Kg
79-01-6	Trichloroethene	1.5	J	0.5	0.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	0.5	U	0.26	0.5	5	ug/Kg
75-27-4	Bromodichloromethane	0.5	U	0.5	0.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5	25.1	ug/Kg
108-88-3	Toluene	0.5	U	0.5	0.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.5	0.5	5	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	ANOMALY-1(3)	SDG No.:	F2206
Lab Sample ID:	F2206-10	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	19.8
Sample Wt/Vol:	6.22 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041672.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.5	0.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	1	U	0.9	1	5	ug/Kg
591-78-6	2-Hexanone	2.5	U	2.5	2.5	25.1	ug/Kg
124-48-1	Dibromochloromethane	0.5	U	0.5	0.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	0.5	U	0.5	0.5	5	ug/Kg
127-18-4	Tetrachloroethene	0.5	U	0.5	0.5	5	ug/Kg
108-90-7	Chlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
100-41-4	Ethyl Benzene	0.5	U	0.5	0.5	5	ug/Kg
179601-23-1	m/p-Xylenes	1	U	0.72	1	10	ug/Kg
95-47-6	o-Xylene	0.5	U	0.5	0.5	5	ug/Kg
100-42-5	Styrene	0.5	U	0.45	0.5	5	ug/Kg
75-25-2	Bromoform	1.5	U	0.74	1.5	5	ug/Kg
98-82-8	Isopropylbenzene	0.5	UQ	0.48	0.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.46	0.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.5	U	0.37	0.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.5	U	0.41	0.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5	U	0.87	5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1	U	0.5	1	5	ug/Kg
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	40.7		56 - 120		81%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		57 - 135		98%	SPK: 50
2037-26-5	Toluene-d8	48.2		67 - 123		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.9		33 - 141		82%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	137807	6.51				
540-36-3	1,4-Difluorobenzene	183685	7.62				
3114-55-4	Chlorobenzene-d5	106843	11.8				
3855-82-1	1,4-Dichlorobenzene-d4	26822	14.16				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	ANOMALY-1(3)	SDG No.:	F2206
Lab Sample ID:	F2206-10	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	19.8
Sample Wt/Vol:	6.22 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041672.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	ANOMALY-1(3)RE	SDG No.:	F2206
Lab Sample ID:	F2206-10RE	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	19.8
Sample Wt/Vol:	6.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041675.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.5	0.5	5	ug/Kg
74-87-3	Chloromethane	0.5	U	0.5	0.5	5	ug/Kg
75-01-4	Vinyl Chloride	0.5	U	0.5	0.5	5	ug/Kg
74-83-9	Bromomethane	1	UQ	1	1	5	ug/Kg
75-00-3	Chloroethane	0.5	U	0.5	0.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	0.5	U	0.5	0.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.5	0.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
67-64-1	Acetone	2.5	U	2.5	2.5	25	ug/Kg
75-15-0	Carbon Disulfide	0.5	U	0.5	0.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.5	0.5	5	ug/Kg
79-20-9	Methyl Acetate	1	U	1	1	5	ug/Kg
75-09-2	Methylene Chloride	0.5	U	0.5	0.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	0.5	U	0.5	0.5	5	ug/Kg
110-82-7	Cyclohexane	0.5	U	0.5	0.5	5	ug/Kg
78-93-3	2-Butanone	7.5	U	3.1	7.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	0.5	U	0.5	0.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.9	J	0.5	0.5	5	ug/Kg
74-97-5	Bromochloromethane	0.5	U	0.5	0.5	5	ug/Kg
67-66-3	Chloroform	0.5	U	0.5	0.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.5	U	0.5	0.5	5	ug/Kg
108-87-2	Methylcyclohexane	0.5	U	0.5	0.5	5	ug/Kg
71-43-2	Benzene	0.5	U	0.38	0.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	0.5	U	0.5	0.5	5	ug/Kg
79-01-6	Trichloroethene	1.9	J	0.5	0.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	0.5	U	0.26	0.5	5	ug/Kg
75-27-4	Bromodichloromethane	0.5	U	0.5	0.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5	25	ug/Kg
108-88-3	Toluene	0.5	U	0.5	0.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.5	0.5	5	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	ANOMALY-1(3)RE	SDG No.:	F2206
Lab Sample ID:	F2206-10RE	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	19.8
Sample Wt/Vol:	6.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041675.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.5	0.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	1	U	0.9	1	5	ug/Kg
591-78-6	2-Hexanone	2.5	U	2.5	2.5	25	ug/Kg
124-48-1	Dibromochloromethane	0.5	U	0.5	0.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	0.5	U	0.5	0.5	5	ug/Kg
127-18-4	Tetrachloroethene	0.5	U	0.5	0.5	5	ug/Kg
108-90-7	Chlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
100-41-4	Ethyl Benzene	0.5	U	0.5	0.5	5	ug/Kg
179601-23-1	m/p-Xylenes	1	U	0.72	1	10	ug/Kg
95-47-6	o-Xylene	0.5	U	0.5	0.5	5	ug/Kg
100-42-5	Styrene	0.5	U	0.45	0.5	5	ug/Kg
75-25-2	Bromoform	1.5	U	0.74	1.5	5	ug/Kg
98-82-8	Isopropylbenzene	0.5	UQ	0.48	0.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.46	0.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.5	U	0.37	0.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.5	U	0.41	0.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5	U	0.87	5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1	U	0.5	1	5	ug/Kg
123-91-1	1,4-Dioxane	99.9	U	99.9	99.9	99.9	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.2		56 - 120		90%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		57 - 135		105%	SPK: 50
2037-26-5	Toluene-d8	51.8		67 - 123		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.5		33 - 141		79%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	130807	6.51				
540-36-3	1,4-Difluorobenzene	176699	7.62				
3114-55-4	Chlorobenzene-d5	104880	11.79				
3855-82-1	1,4-Dichlorobenzene-d4	23746	14.16				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	ANOMALY-1(3)RE	SDG No.:	F2206
Lab Sample ID:	F2206-10RE	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	19.8
Sample Wt/Vol:	6.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041675.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-15A	SDG No.:	F2206
Lab Sample ID:	F2206-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015119.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	220	E	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	1.6		0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	24.5		0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	670	E	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	9.1		0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-15A	SDG No.:	F2206
Lab Sample ID:	F2206-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015119.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.5		61 - 141		111%	SPK: 50
1868-53-7	Dibromofluoromethane	54.1		69 - 133		108%	SPK: 50
2037-26-5	Toluene-d8	55.9		65 - 126		112%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		58 - 135		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	254675	7.87				
540-36-3	1,4-Difluorobenzene	383640	8.79				
3114-55-4	Chlorobenzene-d5	332258	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	107790	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-15A	SDG No.:	F2206
Lab Sample ID:	F2206-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015119.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-15ADL	SDG No.:	F2206
Lab Sample ID:	F2206-11DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015153.D	10		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2	UD	2	2	10	ug/L
74-87-3	Chloromethane	2	UD	2	2	10	ug/L
75-01-4	Vinyl Chloride	220	D	2	2	10	ug/L
74-83-9	Bromomethane	2	UD	2	2	10	ug/L
75-00-3	Chloroethane	5	UD	2	5	10	ug/L
75-69-4	Trichlorofluoromethane	2	UD	2	2	10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2	UD	2	2	10	ug/L
75-35-4	1,1-Dichloroethene	2	UD	2	2	10	ug/L
67-64-1	Acetone	10	UD	5	10	50	ug/L
75-15-0	Carbon Disulfide	2	UD	2	2	10	ug/L
1634-04-4	Methyl tert-butyl Ether	5	UD	3.5	5	10	ug/L
79-20-9	Methyl Acetate	5	UD	2	5	10	ug/L
75-09-2	Methylene Chloride	2	UD	2	2	10	ug/L
156-60-5	trans-1,2-Dichloroethene	23	D	2	2	10	ug/L
75-34-3	1,1-Dichloroethane	2	UD	2	2	10	ug/L
110-82-7	Cyclohexane	2	UD	2	2	10	ug/L
78-93-3	2-Butanone	25	UD	13.2	25	50	ug/L
56-23-5	Carbon Tetrachloride	2	UD	2	2	10	ug/L
156-59-2	cis-1,2-Dichloroethene	620	D	2	2	10	ug/L
74-97-5	Bromochloromethane	5	UD	2	5	10	ug/L
67-66-3	Chloroform	2	UD	2	2	10	ug/L
71-55-6	1,1,1-Trichloroethane	2	UD	2	2	10	ug/L
108-87-2	Methylcyclohexane	2	UD	2	2	10	ug/L
71-43-2	Benzene	2	UD	2	2	10	ug/L
107-06-2	1,2-Dichloroethane	2	UD	2	2	10	ug/L
79-01-6	Trichloroethene	10.1	D	2	2	10	ug/L
78-87-5	1,2-Dichloropropane	2	UD	2	2	10	ug/L
75-27-4	Bromodichloromethane	2	UD	2	2	10	ug/L
108-10-1	4-Methyl-2-Pentanone	10	UD	10	10	50	ug/L
108-88-3	Toluene	2	UD	2	2	10	ug/L
10061-02-6	t-1,3-Dichloropropene	2	UD	2	2	10	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-15ADL	SDG No.:	F2206
Lab Sample ID:	F2206-11DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015153.D	10		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2	UD	2	2	10	ug/L
79-00-5	1,1,2-Trichloroethane	2	UD	2	2	10	ug/L
591-78-6	2-Hexanone	25	UD	19.4	25	50	ug/L
124-48-1	Dibromochloromethane	2	UD	2	2	10	ug/L
106-93-4	1,2-Dibromoethane	2	UD	2	2	10	ug/L
127-18-4	Tetrachloroethene	2	UD	2	2	10	ug/L
108-90-7	Chlorobenzene	2	UD	2	2	10	ug/L
100-41-4	Ethyl Benzene	2	UD	2	2	10	ug/L
179601-23-1	m/p-Xylenes	4	UD	4	4	20	ug/L
95-47-6	o-Xylene	2	UD	2	2	10	ug/L
100-42-5	Styrene	2	UD	2	2	10	ug/L
75-25-2	Bromoform	2	UD	2	2	10	ug/L
98-82-8	Isopropylbenzene	2	UD	2	2	10	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2	UD	2	2	10	ug/L
541-73-1	1,3-Dichlorobenzene	2	UD	2	2	10	ug/L
106-46-7	1,4-Dichlorobenzene	2	UD	2	2	10	ug/L
95-50-1	1,2-Dichlorobenzene	2	UD	2	2	10	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	2	UD	2	2	10	ug/L
120-82-1	1,2,4-Trichlorobenzene	2	UD	2	2	10	ug/L
87-61-6	1,2,3-Trichlorobenzene	2	UD	2	2	10	ug/L
123-91-1	1,4-Dioxane	1000	UD	1000	1000	1000	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.7		61 - 141		113%	SPK: 50
1868-53-7	Dibromofluoromethane	54.6		69 - 133		109%	SPK: 50
2037-26-5	Toluene-d8	56.3		65 - 126		113%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		58 - 135		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	220324	7.87				
540-36-3	1,4-Difluorobenzene	336819	8.79				
3114-55-4	Chlorobenzene-d5	292093	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	89543	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-15ADL	SDG No.:	F2206
Lab Sample ID:	F2206-11DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015153.D	10		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	FD050114	SDG No.:	F2206
Lab Sample ID:	F2206-12	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015120.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	210	E	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	1.5		0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	23.2		0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	640	E	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	9		0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	FD050114	SDG No.:	F2206
Lab Sample ID:	F2206-12	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015120.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.5		61 - 141		111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		69 - 133		105%	SPK: 50
2037-26-5	Toluene-d8	55.8		65 - 126		112%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		58 - 135		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	262677	7.87				
540-36-3	1,4-Difluorobenzene	400100	8.79				
3114-55-4	Chlorobenzene-d5	350202	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	109748	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	FD050114	SDG No.:	F2206
Lab Sample ID:	F2206-12	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015120.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	FD050114DL	SDG No.:	F2206
Lab Sample ID:	F2206-12DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015154.D	10		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2	UD	2	2	10	ug/L
74-87-3	Chloromethane	2	UD	2	2	10	ug/L
75-01-4	Vinyl Chloride	200	D	2	2	10	ug/L
74-83-9	Bromomethane	2	UD	2	2	10	ug/L
75-00-3	Chloroethane	5	UD	2	5	10	ug/L
75-69-4	Trichlorofluoromethane	2	UD	2	2	10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2	UD	2	2	10	ug/L
75-35-4	1,1-Dichloroethene	2	UD	2	2	10	ug/L
67-64-1	Acetone	10	UD	5	10	50	ug/L
75-15-0	Carbon Disulfide	2	UD	2	2	10	ug/L
1634-04-4	Methyl tert-butyl Ether	5	UD	3.5	5	10	ug/L
79-20-9	Methyl Acetate	5	UD	2	5	10	ug/L
75-09-2	Methylene Chloride	2	UD	2	2	10	ug/L
156-60-5	trans-1,2-Dichloroethene	23.2	D	2	2	10	ug/L
75-34-3	1,1-Dichloroethane	2	UD	2	2	10	ug/L
110-82-7	Cyclohexane	2	UD	2	2	10	ug/L
78-93-3	2-Butanone	25	UD	13.2	25	50	ug/L
56-23-5	Carbon Tetrachloride	2	UD	2	2	10	ug/L
156-59-2	cis-1,2-Dichloroethene	580	D	2	2	10	ug/L
74-97-5	Bromochloromethane	5	UD	2	5	10	ug/L
67-66-3	Chloroform	2	UD	2	2	10	ug/L
71-55-6	1,1,1-Trichloroethane	2	UD	2	2	10	ug/L
108-87-2	Methylcyclohexane	2	UD	2	2	10	ug/L
71-43-2	Benzene	2	UD	2	2	10	ug/L
107-06-2	1,2-Dichloroethane	2	UD	2	2	10	ug/L
79-01-6	Trichloroethene	7.9	JD	2	2	10	ug/L
78-87-5	1,2-Dichloropropane	2	UD	2	2	10	ug/L
75-27-4	Bromodichloromethane	2	UD	2	2	10	ug/L
108-10-1	4-Methyl-2-Pentanone	10	UD	10	10	50	ug/L
108-88-3	Toluene	2	UD	2	2	10	ug/L
10061-02-6	t-1,3-Dichloropropene	2	UD	2	2	10	ug/L

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	FD050114DL	SDG No.:	F2206
Lab Sample ID:	F2206-12DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015154.D	10		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2	UD	2	2	10	ug/L
79-00-5	1,1,2-Trichloroethane	2	UD	2	2	10	ug/L
591-78-6	2-Hexanone	25	UD	19.4	25	50	ug/L
124-48-1	Dibromochloromethane	2	UD	2	2	10	ug/L
106-93-4	1,2-Dibromoethane	2	UD	2	2	10	ug/L
127-18-4	Tetrachloroethene	2	UD	2	2	10	ug/L
108-90-7	Chlorobenzene	2	UD	2	2	10	ug/L
100-41-4	Ethyl Benzene	2	UD	2	2	10	ug/L
179601-23-1	m/p-Xylenes	4	UD	4	4	20	ug/L
95-47-6	o-Xylene	2	UD	2	2	10	ug/L
100-42-5	Styrene	2	UD	2	2	10	ug/L
75-25-2	Bromoform	2	UD	2	2	10	ug/L
98-82-8	Isopropylbenzene	2	UD	2	2	10	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2	UD	2	2	10	ug/L
541-73-1	1,3-Dichlorobenzene	2	UD	2	2	10	ug/L
106-46-7	1,4-Dichlorobenzene	2	UD	2	2	10	ug/L
95-50-1	1,2-Dichlorobenzene	2	UD	2	2	10	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	2	UD	2	2	10	ug/L
120-82-1	1,2,4-Trichlorobenzene	2	UD	2	2	10	ug/L
87-61-6	1,2,3-Trichlorobenzene	2	UD	2	2	10	ug/L
123-91-1	1,4-Dioxane	1000	UD	1000	1000	1000	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.8		61 - 141		115%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		69 - 133		106%	SPK: 50
2037-26-5	Toluene-d8	56.2		65 - 126		112%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		58 - 135		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	240458	7.87				
540-36-3	1,4-Difluorobenzene	373082	8.78				
3114-55-4	Chlorobenzene-d5	327059	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	106448	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	FD050114DL	SDG No.:	F2206
Lab Sample ID:	F2206-12DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015154.D	10		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	04/29/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	TRIPBLANK	SDG No.:	F2206
Lab Sample ID:	F2206-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015159.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.2	U	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	43.6		0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.88	J	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	5.5		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	04/29/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	TRIPBLANK	SDG No.:	F2206
Lab Sample ID:	F2206-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015159.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.4		61 - 141		117%	SPK: 50
1868-53-7	Dibromofluoromethane	55.3		69 - 133		111%	SPK: 50
2037-26-5	Toluene-d8	55.8		65 - 126		112%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		58 - 135		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	212961	7.87				
540-36-3	1,4-Difluorobenzene	333793	8.79				
3114-55-4	Chlorobenzene-d5	288684	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	85073	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	04/29/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	TRIPBLANK	SDG No.:	F2206
Lab Sample ID:	F2206-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015159.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	1.7	J			7.46	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-3A	SDG No.:	F2206
Lab Sample ID:	F2206-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015166.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	50.9		0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.32	J	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.69	J	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	210	E	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-3A	SDG No.:	F2206
Lab Sample ID:	F2206-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015166.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.8		61 - 141		114%	SPK: 50
1868-53-7	Dibromofluoromethane	54.1		69 - 133		108%	SPK: 50
2037-26-5	Toluene-d8	56.4		65 - 126		113%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		58 - 135		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	235561	7.87				
540-36-3	1,4-Difluorobenzene	360035	8.79				
3114-55-4	Chlorobenzene-d5	322038	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	100245	13.56				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-3A	SDG No.:	F2206
Lab Sample ID:	F2206-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015166.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-3ADL	SDG No.:	F2206
Lab Sample ID:	F2206-14DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015199.D	5		05/08/14	VN050814

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	1	UD	1	1	5	ug/L
74-87-3	Chloromethane	1	UD	1	1	5	ug/L
75-01-4	Vinyl Chloride	46.6	D	1	1	5	ug/L
74-83-9	Bromomethane	1	UD	1	1	5	ug/L
75-00-3	Chloroethane	2.5	UD	1	2.5	5	ug/L
75-69-4	Trichlorofluoromethane	1	UD	1	1	5	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1	UD	1	1	5	ug/L
75-35-4	1,1-Dichloroethene	1	UD	1	1	5	ug/L
67-64-1	Acetone	5	UD	2.5	5	25	ug/L
75-15-0	Carbon Disulfide	1	UD	1	1	5	ug/L
1634-04-4	Methyl tert-butyl Ether	2.5	UD	1.8	2.5	5	ug/L
79-20-9	Methyl Acetate	2.5	UD	1	2.5	5	ug/L
75-09-2	Methylene Chloride	1	UD	1	1	5	ug/L
156-60-5	trans-1,2-Dichloroethene	1	UD	1	1	5	ug/L
75-34-3	1,1-Dichloroethane	1	UD	1	1	5	ug/L
110-82-7	Cyclohexane	1	UD	1	1	5	ug/L
78-93-3	2-Butanone	12.5	UD	6.6	12.5	25	ug/L
56-23-5	Carbon Tetrachloride	1	UD	1	1	5	ug/L
156-59-2	cis-1,2-Dichloroethene	200	D	1	1	5	ug/L
74-97-5	Bromochloromethane	2.5	UD	1	2.5	5	ug/L
67-66-3	Chloroform	1	UD	1	1	5	ug/L
71-55-6	1,1,1-Trichloroethane	1	UD	1	1	5	ug/L
108-87-2	Methylcyclohexane	1	UD	1	1	5	ug/L
71-43-2	Benzene	1	UD	1	1	5	ug/L
107-06-2	1,2-Dichloroethane	1	UD	1	1	5	ug/L
79-01-6	Trichloroethene	1	UD	1	1	5	ug/L
78-87-5	1,2-Dichloropropane	1	UD	1	1	5	ug/L
75-27-4	Bromodichloromethane	1	UDQ	1	1	5	ug/L
108-10-1	4-Methyl-2-Pentanone	5	UD	5	5	25	ug/L
108-88-3	Toluene	1	UD	1	1	5	ug/L
10061-02-6	t-1,3-Dichloropropene	1	UD	1	1	5	ug/L

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-3ADL	SDG No.:	F2206
Lab Sample ID:	F2206-14DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015199.D	5		05/08/14	VN050814

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	1	UD	1	1	5	ug/L
79-00-5	1,1,2-Trichloroethane	1	UD	1	1	5	ug/L
591-78-6	2-Hexanone	12.5	UD	9.7	12.5	25	ug/L
124-48-1	Dibromochloromethane	1	UD	1	1	5	ug/L
106-93-4	1,2-Dibromoethane	1	UDQ	1	1	5	ug/L
127-18-4	Tetrachloroethene	1	UD	1	1	5	ug/L
108-90-7	Chlorobenzene	1	UD	1	1	5	ug/L
100-41-4	Ethyl Benzene	1	UD	1	1	5	ug/L
179601-23-1	m/p-Xylenes	2	UD	2	2	10	ug/L
95-47-6	o-Xylene	1	UD	1	1	5	ug/L
100-42-5	Styrene	1	UD	1	1	5	ug/L
75-25-2	Bromoform	1	UD	1	1	5	ug/L
98-82-8	Isopropylbenzene	1	UD	1	1	5	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	UD	1	1	5	ug/L
541-73-1	1,3-Dichlorobenzene	1	UD	1	1	5	ug/L
106-46-7	1,4-Dichlorobenzene	1	UD	1	1	5	ug/L
95-50-1	1,2-Dichlorobenzene	1	UD	1	1	5	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1	UD	1	1	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	UD	1	1	5	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	UD	1	1	5	ug/L
123-91-1	1,4-Dioxane	500	UD	500	500	500	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58		61 - 141		116%	SPK: 50
1868-53-7	Dibromofluoromethane	53		69 - 133		106%	SPK: 50
2037-26-5	Toluene-d8	56.3		65 - 126		113%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		58 - 135		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	226667	7.87				
540-36-3	1,4-Difluorobenzene	354986	8.79				
3114-55-4	Chlorobenzene-d5	314201	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	97052	13.56				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-3ADL	SDG No.:	F2206
Lab Sample ID:	F2206-14DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015199.D	5		05/08/14	VN050814

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	EB050114	SDG No.:	F2206
Lab Sample ID:	F2206-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015107.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.2	U	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	EB050114	SDG No.:	F2206
Lab Sample ID:	F2206-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015107.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.6		61 - 141		107%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		69 - 133		106%	SPK: 50
2037-26-5	Toluene-d8	56.1		65 - 126		112%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		58 - 135		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	248346	7.86				
540-36-3	1,4-Difluorobenzene	379053	8.78				
3114-55-4	Chlorobenzene-d5	321446	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	98187	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	EB050114	SDG No.:	F2206
Lab Sample ID:	F2206-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015107.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-4A	SDG No.:	F2206
Lab Sample ID:	F2206-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015121.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.2	U	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	5		0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	1.2		0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-4A	SDG No.:	F2206
Lab Sample ID:	F2206-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015121.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.9		61 - 141		118%	SPK: 50
1868-53-7	Dibromofluoromethane	54.7		69 - 133		109%	SPK: 50
2037-26-5	Toluene-d8	57.4		65 - 126		115%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		58 - 135		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	244648	7.87				
540-36-3	1,4-Difluorobenzene	383713	8.79				
3114-55-4	Chlorobenzene-d5	340624	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	111144	13.56				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-4A	SDG No.:	F2206
Lab Sample ID:	F2206-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015121.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-5A	SDG No.:	F2206
Lab Sample ID:	F2206-19	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015145.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.2	U	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.94	J	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	1.1		0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-5A	SDG No.:	F2206
Lab Sample ID:	F2206-19	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015145.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	UQ	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	UQ	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.7		61 - 141		115%	SPK: 50
1868-53-7	Dibromofluoromethane	54		69 - 133		108%	SPK: 50
2037-26-5	Toluene-d8	56.7		65 - 126		113%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		58 - 135		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	216589	7.87				
540-36-3	1,4-Difluorobenzene	338230	8.78				
3114-55-4	Chlorobenzene-d5	298413	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	93221	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-5A	SDG No.:	F2206
Lab Sample ID:	F2206-19	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015145.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-13A	SDG No.:	F2206
Lab Sample ID:	F2206-20	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015143.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	170		0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.92	J	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	1.3		0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	600	E	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-13A	SDG No.:	F2206
Lab Sample ID:	F2206-20	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015143.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	UQ	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	UQ	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.9		61 - 141		112%	SPK: 50
1868-53-7	Dibromofluoromethane	54.7		69 - 133		109%	SPK: 50
2037-26-5	Toluene-d8	56.8		65 - 126		114%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		58 - 135		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	247117	7.87				
540-36-3	1,4-Difluorobenzene	377538	8.78				
3114-55-4	Chlorobenzene-d5	334756	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	99619	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-13A	SDG No.:	F2206
Lab Sample ID:	F2206-20	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015143.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-13ADL	SDG No.:	F2206
Lab Sample ID:	F2206-20DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015144.D	10		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2	UD	2	2	10	ug/L
74-87-3	Chloromethane	2	UD	2	2	10	ug/L
75-01-4	Vinyl Chloride	190	D	2	2	10	ug/L
74-83-9	Bromomethane	2	UD	2	2	10	ug/L
75-00-3	Chloroethane	5	UD	2	5	10	ug/L
75-69-4	Trichlorofluoromethane	2	UD	2	2	10	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2	UD	2	2	10	ug/L
75-35-4	1,1-Dichloroethene	2	UD	2	2	10	ug/L
67-64-1	Acetone	10	UD	5	10	50	ug/L
75-15-0	Carbon Disulfide	2	UD	2	2	10	ug/L
1634-04-4	Methyl tert-butyl Ether	5	UD	3.5	5	10	ug/L
79-20-9	Methyl Acetate	5	UD	2	5	10	ug/L
75-09-2	Methylene Chloride	2	UD	2	2	10	ug/L
156-60-5	trans-1,2-Dichloroethene	2	UD	2	2	10	ug/L
75-34-3	1,1-Dichloroethane	2	UD	2	2	10	ug/L
110-82-7	Cyclohexane	2	UD	2	2	10	ug/L
78-93-3	2-Butanone	25	UD	13.2	25	50	ug/L
56-23-5	Carbon Tetrachloride	2	UD	2	2	10	ug/L
156-59-2	cis-1,2-Dichloroethene	630	D	2	2	10	ug/L
74-97-5	Bromochloromethane	5	UD	2	5	10	ug/L
67-66-3	Chloroform	2	UD	2	2	10	ug/L
71-55-6	1,1,1-Trichloroethane	2	UD	2	2	10	ug/L
108-87-2	Methylcyclohexane	2	UD	2	2	10	ug/L
71-43-2	Benzene	2	UD	2	2	10	ug/L
107-06-2	1,2-Dichloroethane	2	UD	2	2	10	ug/L
79-01-6	Trichloroethene	2	UD	2	2	10	ug/L
78-87-5	1,2-Dichloropropane	2	UD	2	2	10	ug/L
75-27-4	Bromodichloromethane	2	UD	2	2	10	ug/L
108-10-1	4-Methyl-2-Pentanone	10	UD	10	10	50	ug/L
108-88-3	Toluene	2	UD	2	2	10	ug/L
10061-02-6	t-1,3-Dichloropropene	2	UD	2	2	10	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-13ADL	SDG No.:	F2206
Lab Sample ID:	F2206-20DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015144.D	10		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	2	UD	2	2	10	ug/L
79-00-5	1,1,2-Trichloroethane	2	UD	2	2	10	ug/L
591-78-6	2-Hexanone	25	UD	19.4	25	50	ug/L
124-48-1	Dibromochloromethane	2	UD	2	2	10	ug/L
106-93-4	1,2-Dibromoethane	2	UD	2	2	10	ug/L
127-18-4	Tetrachloroethene	2	UD	2	2	10	ug/L
108-90-7	Chlorobenzene	2	UD	2	2	10	ug/L
100-41-4	Ethyl Benzene	2	UD	2	2	10	ug/L
179601-23-1	m/p-Xylenes	4	UD	4	4	20	ug/L
95-47-6	o-Xylene	2	UD	2	2	10	ug/L
100-42-5	Styrene	2	UD	2	2	10	ug/L
75-25-2	Bromoform	2	UDQ	2	2	10	ug/L
98-82-8	Isopropylbenzene	2	UD	2	2	10	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2	UDQ	2	2	10	ug/L
541-73-1	1,3-Dichlorobenzene	2	UD	2	2	10	ug/L
106-46-7	1,4-Dichlorobenzene	2	UD	2	2	10	ug/L
95-50-1	1,2-Dichlorobenzene	2	UD	2	2	10	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	2	UD	2	2	10	ug/L
120-82-1	1,2,4-Trichlorobenzene	2	UD	2	2	10	ug/L
87-61-6	1,2,3-Trichlorobenzene	2	UD	2	2	10	ug/L
123-91-1	1,4-Dioxane	1000	UD	1000	1000	1000	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.1		61 - 141		112%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		69 - 133		106%	SPK: 50
2037-26-5	Toluene-d8	55.5		65 - 126		111%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		58 - 135		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	230888	7.87				
540-36-3	1,4-Difluorobenzene	356424	8.78				
3114-55-4	Chlorobenzene-d5	312359	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	96995	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-13ADL	SDG No.:	F2206
Lab Sample ID:	F2206-20DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015144.D	10		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-12A	SDG No.:	F2206
Lab Sample ID:	F2206-21	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015146.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	2.3		0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	1.6		0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-12A	SDG No.:	F2206
Lab Sample ID:	F2206-21	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015146.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	UQ	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	UQ	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.1		61 - 141		116%	SPK: 50
1868-53-7	Dibromofluoromethane	54.4		69 - 133		109%	SPK: 50
2037-26-5	Toluene-d8	57		65 - 126		114%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		58 - 135		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	214548	7.87				
540-36-3	1,4-Difluorobenzene	339118	8.78				
3114-55-4	Chlorobenzene-d5	301431	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	97517	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-12A	SDG No.:	F2206
Lab Sample ID:	F2206-21	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015146.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-16A	SDG No.:	F2206
Lab Sample ID:	F2206-22	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015165.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.2	U	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-16A	SDG No.:	F2206
Lab Sample ID:	F2206-22	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015165.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	60.4		61 - 141		121%	SPK: 50
1868-53-7	Dibromofluoromethane	54.9		69 - 133		110%	SPK: 50
2037-26-5	Toluene-d8	57.6		65 - 126		115%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		58 - 135		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	207595	7.87				
540-36-3	1,4-Difluorobenzene	325938	8.79				
3114-55-4	Chlorobenzene-d5	292921	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	93250	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	BMW-16A	SDG No.:	F2206
Lab Sample ID:	F2206-22	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015165.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

QC SUMMARY

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Surrogate Summary

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
F2205-06MS	SE-1-050214MS	1,2-Dichloroethane-d4	50	52.09	104		56	120
		Dibromofluoromethane	50	57.52	115		57	135
		Toluene-d8	50	57.64	115		67	123
		4-Bromofluorobenzene	50	61.75	124		33	141
F2205-06MSD	SE-1-050214MSD	1,2-Dichloroethane-d4	50	40.71	81		56	120
		Dibromofluoromethane	50	43.34	87		57	135
		Toluene-d8	50	42.83	86		67	123
		4-Bromofluorobenzene	50	43.36	87		33	141
F2206-10	ANOMALY-1(3)	1,2-Dichloroethane-d4	50	40.73	81		56	120
		Dibromofluoromethane	50	48.94	98		57	135
		Toluene-d8	50	48.21	96		67	123
		4-Bromofluorobenzene	50	40.94	82		33	141
F2206-10RE	ANOMALY-1(3)RE	1,2-Dichloroethane-d4	50	45.24	90		56	120
		Dibromofluoromethane	50	52.54	105		57	135
		Toluene-d8	50	51.8	104		67	123
		4-Bromofluorobenzene	50	39.46	79		33	141
VD0505SBL01	VD0505SBL01	1,2-Dichloroethane-d4	50	45.38	91		56	120
		Dibromofluoromethane	50	43.58	87		57	135
		Toluene-d8	50	49.06	98		67	123
		4-Bromofluorobenzene	50	48.66	97		33	141
VD0505SBS01	VD0505SBS01	1,2-Dichloroethane-d4	50	46.72	93		56	120
		Dibromofluoromethane	50	45.7	91		57	135
		Toluene-d8	50	48.94	98		67	123
		4-Bromofluorobenzene	50	47.25	94		33	141

Surrogate Summary

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
F2206-01	BMW-11A	1,2-Dichloroethane-d4	50	55.23	110		61	141
		Dibromofluoromethane	50	52.28	105		69	133
		Toluene-d8	50	55.68	111		65	126
		4-Bromofluorobenzene	50	46.98	94		58	135
F2206-02	MW-8A	1,2-Dichloroethane-d4	50	56.11	112		61	141
		Dibromofluoromethane	50	52.63	105		69	133
		Toluene-d8	50	55.61	111		65	126
		4-Bromofluorobenzene	50	48.88	98		58	135
F2206-03	BMW-14A	1,2-Dichloroethane-d4	50	54.74	109		61	141
		Dibromofluoromethane	50	53.76	108		69	133
		Toluene-d8	50	55.91	112		65	126
		4-Bromofluorobenzene	50	47.82	96		58	135
F2206-03DL	BMW-14ADL	1,2-Dichloroethane-d4	50	56.25	113		61	141
		Dibromofluoromethane	50	53.76	108		69	133
		Toluene-d8	50	56.72	113		65	126
		4-Bromofluorobenzene	50	46.74	93		58	135
F2206-04	BMW-18A	1,2-Dichloroethane-d4	50	59.36	119		61	141
		Dibromofluoromethane	50	52.84	106		69	133
		Toluene-d8	50	56.49	113		65	126
		4-Bromofluorobenzene	50	49.56	99		58	135
F2206-05	BMW-19A	1,2-Dichloroethane-d4	50	55.32	111		61	141
		Dibromofluoromethane	50	54.62	109		69	133
		Toluene-d8	50	55.36	111		65	126
		4-Bromofluorobenzene	50	47.87	96		58	135
F2206-05DL	BMW-19ADL	1,2-Dichloroethane-d4	50	57.79	116		61	141
		Dibromofluoromethane	50	53.13	106		69	133
		Toluene-d8	50	56.15	112		65	126
		4-Bromofluorobenzene	50	49.2	98		58	135
F2206-06	MW-10A	1,2-Dichloroethane-d4	50	55.73	111		61	141
		Dibromofluoromethane	50	52.42	105		69	133
		Toluene-d8	50	56.27	113		65	126
		4-Bromofluorobenzene	50	48.03	96		58	135
F2206-06DL	MW-10ADL	1,2-Dichloroethane-d4	50	56.71	113		61	141
		Dibromofluoromethane	50	54.37	109		69	133
		Toluene-d8	50	56.83	114		65	126
		4-Bromofluorobenzene	50	49.51	99		58	135
F2206-07	MW-2A	1,2-Dichloroethane-d4	50	57.93	116		61	141
		Dibromofluoromethane	50	53.99	108		69	133
		Toluene-d8	50	56.79	114		65	126
		4-Bromofluorobenzene	50	49.56	99		58	135
F2206-08	MW-1A	1,2-Dichloroethane-d4	50	57.41	115		61	141
		Dibromofluoromethane	50	54.54	109		69	133
		Toluene-d8	50	57.28	115		65	126
		4-Bromofluorobenzene	50	50.43	101		58	135
F2206-09	BMW-17A	1,2-Dichloroethane-d4	50	60.19	120		61	141
		Dibromofluoromethane	50	54.17	108		69	133
		Toluene-d8	50	57.68	115		65	126
		4-Bromofluorobenzene	50	50.47	101		58	135
F2206-11	BMW-15A	1,2-Dichloroethane-d4	50	55.51	111		61	141
		Dibromofluoromethane	50	54.06	108		69	133
		Toluene-d8	50	55.9	112		65	126
		4-Bromofluorobenzene	50	49.58	99		58	135

Surrogate Summary

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
F2206-11DL	BMW-15ADL	1,2-Dichloroethane-d4	50	56.66	113		61	141
		Dibromofluoromethane	50	54.6	109		69	133
		Toluene-d8	50	56.29	113		65	126
		4-Bromofluorobenzene	50	48.65	97		58	135
F2206-12	FD050114	1,2-Dichloroethane-d4	50	55.53	111		61	141
		Dibromofluoromethane	50	52.57	105		69	133
		Toluene-d8	50	55.75	112		65	126
		4-Bromofluorobenzene	50	48.79	98		58	135
F2206-12DL	FD050114DL	1,2-Dichloroethane-d4	50	57.75	115		61	141
		Dibromofluoromethane	50	52.77	106		69	133
		Toluene-d8	50	56.2	112		65	126
		4-Bromofluorobenzene	50	50.8	102		58	135
F2206-13	TRIPBLANK	1,2-Dichloroethane-d4	50	58.39	117		61	141
		Dibromofluoromethane	50	55.27	111		69	133
		Toluene-d8	50	55.76	112		65	126
		4-Bromofluorobenzene	50	47.64	95		58	135
F2206-14	MW-3A	1,2-Dichloroethane-d4	50	56.84	114		61	141
		Dibromofluoromethane	50	54.09	108		69	133
		Toluene-d8	50	56.43	113		65	126
		4-Bromofluorobenzene	50	51.57	103		58	135
F2206-14DL	MW-3ADL	1,2-Dichloroethane-d4	50	57.97	116		61	141
		Dibromofluoromethane	50	53	106		69	133
		Toluene-d8	50	56.29	113		65	126
		4-Bromofluorobenzene	50	48.5	97		58	135
F2206-15	EB050114	1,2-Dichloroethane-d4	50	53.62	107		61	141
		Dibromofluoromethane	50	52.86	106		69	133
		Toluene-d8	50	56.06	112		65	126
		4-Bromofluorobenzene	50	47.83	96		58	135
F2206-16	MW-4A	1,2-Dichloroethane-d4	50	58.92	118		61	141
		Dibromofluoromethane	50	54.73	109		69	133
		Toluene-d8	50	57.37	115		65	126
		4-Bromofluorobenzene	50	50.84	102		58	135
F2206-17MS	MW-4AMS	1,2-Dichloroethane-d4	50	52.84	106		61	141
		Dibromofluoromethane	50	50.82	102		69	133
		Toluene-d8	50	48.94	98		65	126
		4-Bromofluorobenzene	50	52.88	106		58	135
F2206-18MSD	MW-4AMSD	1,2-Dichloroethane-d4	50	50.89	102		61	141
		Dibromofluoromethane	50	49.08	98		69	133
		Toluene-d8	50	46.51	93		65	126
		4-Bromofluorobenzene	50	50.37	101		58	135
F2206-19	MW-5A	1,2-Dichloroethane-d4	50	57.72	115		61	141
		Dibromofluoromethane	50	54	108		69	133
		Toluene-d8	50	56.67	113		65	126
		4-Bromofluorobenzene	50	48.42	97		58	135
F2206-20	BMW-13A	1,2-Dichloroethane-d4	50	55.94	112		61	141
		Dibromofluoromethane	50	54.7	109		69	133
		Toluene-d8	50	56.82	114		65	126
		4-Bromofluorobenzene	50	49.05	98		58	135
F2206-20DL	BMW-13ADL	1,2-Dichloroethane-d4	50	56.12	112		61	141
		Dibromofluoromethane	50	53.05	106		69	133
		Toluene-d8	50	55.5	111		65	126
		4-Bromofluorobenzene	50	48.34	97		58	135

Surrogate Summary

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
F2206-21	BMW-12A	1,2-Dichloroethane-d4	50	58.13	116		61	141
		Dibromofluoromethane	50	54.39	109		69	133
		Toluene-d8	50	57.01	114		65	126
		4-Bromofluorobenzene	50	50.7	101		58	135
F2206-22	BMW-16A	1,2-Dichloroethane-d4	50	60.42	121		61	141
		Dibromofluoromethane	50	54.93	110		69	133
		Toluene-d8	50	57.58	115		65	126
		4-Bromofluorobenzene	50	50.39	101		58	135
VN0506WBL01	VN0506WBL01	1,2-Dichloroethane-d4	50	55.24	110		61	141
		Dibromofluoromethane	50	52.9	106		69	133
		Toluene-d8	50	56.81	114		65	126
		4-Bromofluorobenzene	50	48.46	97		58	135
VN0506WBL02	VN0506WBL02	1,2-Dichloroethane-d4	50	56.27	113		70	120
		Dibromofluoromethane	50	53.93	108		85	115
		Toluene-d8	50	57.66	115		85	120
		4-Bromofluorobenzene	50	50	100		75	120
VN0506WBS01	VN0506WBS01	1,2-Dichloroethane-d4	50	49.02	98		61	141
		Dibromofluoromethane	50	49.9	100		69	133
		Toluene-d8	50	47.52	95		65	126
		4-Bromofluorobenzene	50	49.44	99		58	135
VN0506WBS02	VN0506WBS02	1,2-Dichloroethane-d4	50	56.99	114		70	120
		Dibromofluoromethane	50	53.62	107		85	115
		Toluene-d8	50	50.13	100		85	120
		4-Bromofluorobenzene	50	52.45	105		75	120
VN0507WBL01	VN0507WBL01	1,2-Dichloroethane-d4	50	58.77	118		70	120
		Dibromofluoromethane	50	54.18	108		85	115
		Toluene-d8	50	57.45	115		85	120
		4-Bromofluorobenzene	50	51.03	102		75	120
VN0507WBS01	VN0507WBS01	1,2-Dichloroethane-d4	50	52.367	105		70	120
		Dibromofluoromethane	50	52.585	105		85	115
		Toluene-d8	50	49.402	99		85	120
		4-Bromofluorobenzene	50	53.571	107		75	120
VN0508WBL01	VN0508WBL01	1,2-Dichloroethane-d4	50	59.57	119		70	120
		Dibromofluoromethane	50	54.99	110		85	115
		Toluene-d8	50	57.39	115		85	120
		4-Bromofluorobenzene	50	50.71	101		75	120
VN0508WBS01	VN0508WBS01	1,2-Dichloroethane-d4	50	52.579	105		70	120
		Dibromofluoromethane	50	51.284	103		85	115
		Toluene-d8	50	47.628	95		85	120
		4-Bromofluorobenzene	50	51.4	103		75	120

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : F2205-06MS	**Client Sample ID : SE-1-050214MS**							**Datafile :** VD041677.D			
Dichlorodifluoromethane	58.4	0	66.2	ug/Kg	113				44	157	
Chloromethane	58.4	0	45.5	ug/Kg	78				51	144	
Vinyl chloride	58.4	0	51.3	ug/Kg	88				56	145	
Bromomethane	58.4	0	68.3	ug/Kg	117				47	151	
Chloroethane	58.4	0	67.3	ug/Kg	115				55	158	
Trichlorofluoromethane	58.4	0	68.6	ug/Kg	117				63	145	
1,1,2-Trichlorotrifluoroethane	58.4	0	71.7	ug/Kg	123				63	141	
1,1-Dichloroethene	58.4	0	71.1	ug/Kg	122				64	140	
Acetone	290	19.4	310	ug/Kg	100				41	145	
Carbon disulfide	58.4	0	70.6	ug/Kg	121				56	139	
Methyl tert-butyl Ether	58.4	0	71	ug/Kg	122				64	132	
Methyl Acetate	58.4	0	65.2	ug/Kg	112				21	221	
Methylene Chloride	58.4	0	71.1	ug/Kg	122				59	133	
trans-1,2-Dichloroethene	58.4	0	70.6	ug/Kg	121				64	135	
1,1-Dichloroethane	58.4	0	63.5	ug/Kg	109				66	135	
Cyclohexane	58.4	0	67.9	ug/Kg	116				59	140	
2-Butanone	290	0	360	ug/Kg	124				54	137	
Carbon Tetrachloride	58.4	0	93.6	ug/Kg	160	*			66	137	
cis-1,2-Dichloroethene	58.4	0	75.3	ug/Kg	129				65	132	
Bromochloromethane	58.4	0	58.2	ug/Kg	100				62	125	
Chloroform	58.4	0	76.5	ug/Kg	131				68	132	
1,1,1-Trichloroethane	58.4	0	76.4	ug/Kg	131				69	138	
Methylcyclohexane	58.4	0	74	ug/Kg	127				54	134	
Benzene	58.4	0	73.4	ug/Kg	126				68	130	
1,2-Dichloroethane	58.4	0	75.9	ug/Kg	130				68	130	
Trichloroethene	58.4	0	78.6	ug/Kg	135				54	149	
1,2-Dichloropropane	58.4	0	78.2	ug/Kg	134				65	136	
Bromodichloromethane	58.4	0	85.8	ug/Kg	147	*			68	132	
4-Methyl-2-Pentanone	290	0	410	ug/Kg	141	*			59	137	
Toluene	58.4	0	78.6	ug/Kg	135	*			65	133	
t-1,3-Dichloropropene	58.4	0	87.2	ug/Kg	149	*			64	129	
cis-1,3-Dichloropropene	58.4	0	82.8	ug/Kg	142	*			65	129	
1,1,2-Trichloroethane	58.4	0	82.1	ug/Kg	141	*			66	131	
2-Hexanone	290	0	410	ug/Kg	141	*			58	133	
Dibromochloromethane	58.4	0	95.1	ug/Kg	163	*			67	131	
1,2-Dibromoethane	58.4	0	86.5	ug/Kg	148	*			65	130	
Tetrachloroethene	58.4	0	79.7	ug/Kg	136				37	161	
Chlorobenzene	58.4	0	77.7	ug/Kg	133	*			66	128	
Ethyl Benzene	58.4	0	77.5	ug/Kg	133				65	133	
m/p-Xylenes	120	0	160	ug/Kg	133				62	134	
o-Xylene	58.4	0	79.6	ug/Kg	136	*			65	133	
Styrene	58.4	0	87	ug/Kg	149	*			66	127	
Bromoform	58.4	0	88.8	ug/Kg	152	*			68	131	
Isopropylbenzene	58.4	0	70.6	ug/Kg	121				64	139	
1,1,2,2-Tetrachloroethane	58.4	0	82	ug/Kg	140				48	150	
1,3-Dichlorobenzene	58.4	0	74.5	ug/Kg	128				60	129	
1,4-Dichlorobenzene	58.4	0	75.9	ug/Kg	130	*			59	128	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	58.4	0	73.9	ug/Kg	127				63	127	
1,2-Dibromo-3-Chloropropane	58.4	0	76.5	ug/Kg	131				65	137	
1,2,4-Trichlorobenzene	58.4	0	70.7	ug/Kg	121				38	131	
1,2,3-Trichlorobenzene	58.4	0	69.1	ug/Kg	118				26	131	
1,4-Dioxane	1200	0	1700	ug/Kg	142				50	150	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : F2205-06MSD	**Client Sample ID : SE-1-050214MSD**						**Datafile :** VD041678.D				
Dichlorodifluoromethane	58.4	0	43	ug/Kg	74		42	*	44	157	20
Chloromethane	58.4	0	37.3	ug/Kg	64		20		51	144	20
Vinyl chloride	58.4	0	45.1	ug/Kg	77		13		56	145	20
Bromomethane	58.4	0	45.5	ug/Kg	78		40	*	47	151	20
Chloroethane	58.4	0	46.7	ug/Kg	80		36	*	55	158	20
Trichlorofluoromethane	58.4	0	53.7	ug/Kg	92		24	*	63	145	20
1,1,2-Trichlorotrifluoroethane	58.4	0	48.7	ug/Kg	83		38	*	63	141	20
1,1-Dichloroethene	58.4	0	50.7	ug/Kg	87		33	*	64	140	20
Acetone	290	19.4	230	ug/Kg	73		30	*	41	145	20
Carbon disulfide	58.4	0	49.5	ug/Kg	85		35	*	56	139	20
Methyl tert-butyl Ether	58.4	0	52.6	ug/Kg	90		30	*	64	132	20
Methyl Acetate	58.4	0	50.1	ug/Kg	86		26	*	21	221	20
Methylene Chloride	58.4	0	46.5	ug/Kg	80		42	*	59	133	20
trans-1,2-Dichloroethene	58.4	0	50.2	ug/Kg	86		34	*	64	135	20
1,1-Dichloroethane	58.4	0	46.9	ug/Kg	80		30	*	66	135	20
Cyclohexane	58.4	0	50.7	ug/Kg	87		29	*	59	140	20
2-Butanone	290	0	270	ug/Kg	93		29	*	54	137	20
Carbon Tetrachloride	58.4	0	59.7	ug/Kg	102		44	*	66	137	20
cis-1,2-Dichloroethene	58.4	0	53.8	ug/Kg	92		33	*	65	132	20
Bromochloromethane	58.4	0	45	ug/Kg	77		26	*	62	125	20
Chloroform	58.4	0	53.6	ug/Kg	92		35	*	68	132	20
1,1,1-Trichloroethane	58.4	0	53.7	ug/Kg	92		35	*	69	138	20
Methylcyclohexane	58.4	0	53.8	ug/Kg	92		32	*	54	134	20
Benzene	58.4	0	49.4	ug/Kg	85		39	*	68	130	20
1,2-Dichloroethane	58.4	0	52.9	ug/Kg	91		36	*	68	130	20
Trichloroethene	58.4	0	54.2	ug/Kg	93		37	*	54	149	20
1,2-Dichloropropane	58.4	0	53.1	ug/Kg	91		38	*	65	136	20
Bromodichloromethane	58.4	0	55.6	ug/Kg	95		43	*	68	132	20
4-Methyl-2-Pentanone	290	0	280	ug/Kg	97		38	*	59	137	20
Toluene	58.4	0	52.9	ug/Kg	91		39	*	65	133	20
t-1,3-Dichloropropene	58.4	0	55.8	ug/Kg	96		44	*	64	129	20
cis-1,3-Dichloropropene	58.4	0	55.1	ug/Kg	94		40	*	65	129	20
1,1,2-Trichloroethane	58.4	0	54.6	ug/Kg	93		40	*	66	131	20
2-Hexanone	290	0	280	ug/Kg	97		38	*	58	133	20
Dibromochloromethane	58.4	0	60.1	ug/Kg	103		45	*	67	131	20
1,2-Dibromoethane	58.4	0	57.4	ug/Kg	98		40	*	65	130	20
Tetrachloroethene	58.4	0	53.9	ug/Kg	92		39	*	37	161	20
Chlorobenzene	58.4	0	53.8	ug/Kg	92		36	*	66	128	20
Ethyl Benzene	58.4	0	55.6	ug/Kg	95		33	*	65	133	20
m/p-Xylenes	120	0	110	ug/Kg	92		37	*	62	134	20
o-Xylene	58.4	0	54.9	ug/Kg	94		37	*	65	133	20
Styrene	58.4	0	57.9	ug/Kg	99		40	*	66	127	20
Bromoform	58.4	0	63.7	ug/Kg	109		33	*	68	131	20
Isopropylbenzene	58.4	0	54.7	ug/Kg	94		25	*	64	139	20
1,1,2,2-Tetrachloroethane	58.4	0	59.1	ug/Kg	101		32	*	48	150	20
1,3-Dichlorobenzene	58.4	0	53.6	ug/Kg	92		33	*	60	129	20
1,4-Dichlorobenzene	58.4	0	54.2	ug/Kg	93		33	*	59	128	20

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	58.4	0	53.4	ug/Kg	91		32	*	63	127	20
1,2-Dibromo-3-Chloropropane	58.4	0	53.6	ug/Kg	92		35	*	65	137	20
1,2,4-Trichlorobenzene	58.4	0	49.3	ug/Kg	84		36	*	38	131	20
1,2,3-Trichlorobenzene	58.4	0	49.8	ug/Kg	85		32	*	26	131	20
1,4-Dioxane	1200	0	1100	ug/Kg	92		43	*	50	150	20

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : F2206-17MS	**Client Sample ID : MW-4AMS**							**Datafile :** VN015122.D			
Dichlorodifluoromethane	50	0	55.9	ug/L	112				47	161	
Chloromethane	50	0	45.9	ug/L	92				53	157	
Vinyl chloride	50	0	53.6	ug/L	107				57	149	
Bromomethane	50	0	46.2	ug/L	92				45	165	
Chloroethane	50	0	50.5	ug/L	101				47	166	
Trichlorofluoromethane	50	0	58.2	ug/L	116				51	165	
1,1,2-Trichlorotrifluoroethane	50	0	54.7	ug/L	109				61	145	
1,1-Dichloroethene	50	0	51.7	ug/L	103				55	148	
Acetone	250	0	250	ug/L	100				11	159	
Carbon disulfide	50	0	41.6	ug/L	83				13	149	
Methyl tert-butyl Ether	50	0	57.1	ug/L	114				60	145	
Methyl Acetate	50	0	66.5	ug/L	133				27	167	
Methylene Chloride	50	0	50.6	ug/L	101				56	146	
trans-1,2-Dichloroethene	50	0	52.4	ug/L	105				60	141	
1,1-Dichloroethane	50	0	51.6	ug/L	103				61	144	
Cyclohexane	50	0	43.9	ug/L	88				57	142	
2-Butanone	250	0	290	ug/L	116				42	145	
Carbon Tetrachloride	50	0	60.2	ug/L	120				60	140	
cis-1,2-Dichloroethene	50	5	57.3	ug/L	105				48	156	
Bromochloromethane	50	0	43.1	ug/L	86				59	146	
Chloroform	50	0	55.2	ug/L	110				63	140	
1,1,1-Trichloroethane	50	0	57.6	ug/L	115				65	140	
Methylcyclohexane	50	0	49.6	ug/L	99				62	128	
Benzene	50	0	52.9	ug/L	106				62	134	
1,2-Dichloroethane	50	0	58.8	ug/L	118				67	136	
Trichloroethene	50	1.2	53.9	ug/L	105				64	131	
1,2-Dichloropropane	50	0	50.7	ug/L	101				69	130	
Bromodichloromethane	50	0	56.9	ug/L	114				66	132	
4-Methyl-2-Pentanone	250	0	310	ug/L	124				57	148	
Toluene	50	0	53.8	ug/L	108				68	129	
t-1,3-Dichloropropene	50	0	57.2	ug/L	114				54	136	
cis-1,3-Dichloropropene	50	0	53.5	ug/L	107				56	133	
1,1,2-Trichloroethane	50	0	56.2	ug/L	112				68	134	
2-Hexanone	250	0	320	ug/L	128				46	158	
Dibromochloromethane	50	0	60.1	ug/L	120				59	136	
1,2-Dibromoethane	50	0	57.4	ug/L	115				65	138	
Tetrachloroethene	50	0	52.1	ug/L	104				29	137	
Chlorobenzene	50	0	52.9	ug/L	106				68	126	
Ethyl Benzene	50	0	54.4	ug/L	109				61	131	
m/p-Xylenes	100	0	110	ug/L	110				64	125	
o-Xylene	50	0	53.2	ug/L	106				65	126	
Styrene	50	0	59.3	ug/L	119				40	140	
Bromoform	50	0	65.6	ug/L	131				42	134	
Isopropylbenzene	50	0	48.6	ug/L	97				58	132	
1,1,2,2-Tetrachloroethane	50	0	57.8	ug/L	116				61	136	
1,3-Dichlorobenzene	50	0	52.7	ug/L	105				63	125	
1,4-Dichlorobenzene	50	0	50.9	ug/L	102				64	124	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	50	0	52.1	ug/L	104				64	126	
1,2-Dibromo-3-Chloropropane	50	0	66	ug/L	132				57	139	
1,2,4-Trichlorobenzene	50	0	60.7	ug/L	121				57	130	
1,2,3-Trichlorobenzene	50	0	51.6	ug/L	103				57	131	
1,4-Dioxane	1000	0	1300	ug/L	130				50	150	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : F2206-18MSD	**Client Sample ID : MW-4AMSD**						**Datafile :** VN015123.D				
Dichlorodifluoromethane	50	0	55.1	ug/L	110		1		47	161	20
Chloromethane	50	0	44.9	ug/L	90		2		53	157	20
Vinyl chloride	50	0	53.8	ug/L	108		0		57	149	20
Bromomethane	50	0	49.1	ug/L	98		6		45	165	20
Chloroethane	50	0	50.4	ug/L	101		0		47	166	20
Trichlorofluoromethane	50	0	58.8	ug/L	118		1		51	165	20
1,1,2-Trichlorotrifluoroethane	50	0	53.2	ug/L	106		3		61	145	20
1,1-Dichloroethene	50	0	51.1	ug/L	102		1		55	148	20
Acetone	250	0	250	ug/L	100		0		11	159	20
Carbon disulfide	50	0	41	ug/L	82		1		13	149	20
Methyl tert-butyl Ether	50	0	57.1	ug/L	114		0		60	145	20
Methyl Acetate	50	0	64.6	ug/L	129		3		27	167	20
Methylene Chloride	50	0	50.9	ug/L	102		1		56	146	20
trans-1,2-Dichloroethene	50	0	50	ug/L	100		5		60	141	20
1,1-Dichloroethane	50	0	51.6	ug/L	103		0		61	144	20
Cyclohexane	50	0	44	ug/L	88		0		57	142	20
2-Butanone	250	0	280	ug/L	112		4		42	145	20
Carbon Tetrachloride	50	0	59.7	ug/L	119		1		60	140	20
cis-1,2-Dichloroethene	50	5	57.5	ug/L	105		0		48	156	20
Bromochloromethane	50	0	42.7	ug/L	85		1		59	146	20
Chloroform	50	0	54.3	ug/L	109		2		63	140	20
1,1,1-Trichloroethane	50	0	58.9	ug/L	118		2		65	140	20
Methylcyclohexane	50	0	48.7	ug/L	97		2		62	128	20
Benzene	50	0	52.2	ug/L	104		1		62	134	20
1,2-Dichloroethane	50	0	58.3	ug/L	117		1		67	136	20
Trichloroethene	50	1.2	52.9	ug/L	103		2		64	131	20
1,2-Dichloropropane	50	0	50	ug/L	100		1		69	130	20
Bromodichloromethane	50	0	56.9	ug/L	114		0		66	132	20
4-Methyl-2-Pentanone	250	0	310	ug/L	124		0		57	148	20
Toluene	50	0	53.4	ug/L	107		1		68	129	20
t-1,3-Dichloropropene	50	0	57.4	ug/L	115		0		54	136	20
cis-1,3-Dichloropropene	50	0	53.4	ug/L	107		0		56	133	20
1,1,2-Trichloroethane	50	0	56	ug/L	112		0		68	134	20
2-Hexanone	250	0	310	ug/L	124		3		46	158	20
Dibromochloromethane	50	0	59.6	ug/L	119		1		59	136	20
1,2-Dibromoethane	50	0	58.4	ug/L	117		2		65	138	20
Tetrachloroethene	50	0	52.3	ug/L	105		0		29	137	20
Chlorobenzene	50	0	52.3	ug/L	105		1		68	126	20
Ethyl Benzene	50	0	54.4	ug/L	109		0		61	131	20
m/p-Xylenes	100	0	110	ug/L	110		0		64	125	20
o-Xylene	50	0	53.8	ug/L	108		1		65	126	20
Styrene	50	0	59.7	ug/L	119		1		40	140	20
Bromoform	50	0	65.6	ug/L	131		0		42	134	20
Isopropylbenzene	50	0	49.7	ug/L	99		2		58	132	20
1,1,2,2-Tetrachloroethane	50	0	58.9	ug/L	118		2		61	136	20
1,3-Dichlorobenzene	50	0	53.5	ug/L	107		2		63	125	20
1,4-Dichlorobenzene	50	0	51.9	ug/L	104		2		64	124	20

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	50	0	54.2	ug/L	108		4		64	126	20
1,2-Dibromo-3-Chloropropane	50	0	64.2	ug/L	128		3		57	139	20
1,2,4-Trichlorobenzene	50	0	62.6	ug/L	125		3		57	130	20
1,2,3-Trichlorobenzene	50	0	54.9	ug/L	110		6		57	131	20
1,4-Dioxane	1000	0	1300	ug/L	130		0		50	150	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C **Datafile :** VD041666.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VD0505SBS01	Dichlorodifluoromethane	20	21.8	ug/Kg	109			50	142	
	Chloromethane	20	19.7	ug/Kg	99			65	131	
	Vinyl chloride	20	22.3	ug/Kg	112			67	130	
	Bromomethane	20	12.1	ug/Kg	61		*	64	136	
	Chloroethane	20	16.9	ug/Kg	85			66	146	
	Trichlorofluoromethane	20	23.3	ug/Kg	117			72	134	
	1,1,2-Trichlorotrifluoroethane	20	22.8	ug/Kg	114			73	133	
	1,1-Dichloroethene	20	21.1	ug/Kg	106			74	130	
	Acetone	100	93.3	ug/Kg	93			57	135	
	Carbon disulfide	20	21.7	ug/Kg	109			71	130	
	Methyl tert-butyl Ether	20	22.6	ug/Kg	113			76	123	
	Methyl Acetate	20	20	ug/Kg	100			62	146	
	Methylene Chloride	20	20.8	ug/Kg	104			73	134	
	trans-1,2-Dichloroethene	20	23.1	ug/Kg	116			76	125	
	1,1-Dichloroethane	20	23.4	ug/Kg	117			78	124	
	Cyclohexane	20	24.3	ug/Kg	121			72	130	
	2-Butanone	100	99.6	ug/Kg	100			68	132	
	Carbon Tetrachloride	20	23.2	ug/Kg	116			76	127	
	cis-1,2-Dichloroethene	20	23.1	ug/Kg	116			78	122	
	Bromochloromethane	20	20.3	ug/Kg	102			66	133	
	Chloroform	20	22.8	ug/Kg	114			79	122	
	1,1,1-Trichloroethane	20	23.8	ug/Kg	119			76	126	
	Methylcyclohexane	20	22.7	ug/Kg	114			75	127	
	Benzene	20	22.4	ug/Kg	112			79	124	
	1,2-Dichloroethane	20	23.2	ug/Kg	116			78	124	
	Trichloroethene	20	22.7	ug/Kg	114			78	124	
	1,2-Dichloropropane	20	22.2	ug/Kg	111			76	124	
	Bromodichloromethane	20	23.4	ug/Kg	117			78	122	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			73	135	
	Toluene	20	21.9	ug/Kg	110			78	124	
	t-1,3-Dichloropropene	20	22.1	ug/Kg	111			77	123	
	cis-1,3-Dichloropropene	20	23.1	ug/Kg	116			79	120	
	1,1,2-Trichloroethane	20	22.7	ug/Kg	114			78	123	
	2-Hexanone	100	100	ug/Kg	100			71	134	
	Dibromochloromethane	20	22.6	ug/Kg	113			77	121	
	1,2-Dibromoethane	20	21.4	ug/Kg	107			78	123	
	Tetrachloroethene	20	22.1	ug/Kg	111			67	134	
	Chlorobenzene	20	23	ug/Kg	115			80	121	
	Ethyl Benzene	20	22.2	ug/Kg	111			80	123	
	m/p-Xylenes	40	46.2	ug/Kg	116			79	126	
	o-Xylene	20	23.1	ug/Kg	116			80	122	
	Styrene	20	22.8	ug/Kg	114			81	121	
	Bromoform	20	20.4	ug/Kg	102			73	124	
	Isopropylbenzene	20	24.9	ug/Kg	125		*	79	123	
	1,1,2,2-Tetrachloroethane	20	23.5	ug/Kg	117			79	124	
	1,3-Dichlorobenzene	20	23.1	ug/Kg	116			82	120	
	1,4-Dichlorobenzene	20	23.9	ug/Kg	119			81	120	
	1,2-Dichlorobenzene	20	22.6	ug/Kg	113			82	118	
	1,2-Dibromo-3-Chloropropane	20	22.3	ug/Kg	112			72	127	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260C **Datafile :** VD041666.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VD0505SBS01	1,2,4-Trichlorobenzene	20	23.6	ug/Kg	118			75	125	
	1,2,3-Trichlorobenzene	20	24.4	ug/Kg	122			79	123	
	1,4-Dioxane	400	420	ug/Kg	105			50	150	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low **Datafile :** VN015105.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0506WBS01	Dichlorodifluoromethane	20	19.2	ug/L	96			46	139	
	Chloromethane	20	18.4	ug/L	92			58	139	
	Vinyl chloride	20	19	ug/L	95			65	137	
	Bromomethane	20	18.5	ug/L	93			50	162	
	Chloroethane	20	17.9	ug/L	90			54	160	
	Trichlorofluoromethane	20	20.9	ug/L	104			67	143	
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/L	101			71	136	
	1,1-Dichloroethene	20	18.4	ug/L	92			69	134	
	Acetone	100	92.5	ug/L	93			41	181	
	Carbon disulfide	20	16.6	ug/L	83			63	138	
	Methyl tert-butyl Ether	20	19.2	ug/L	96			72	136	
	Methyl Acetate	20	20.1	ug/L	101			51	158	
	Methylene Chloride	20	18.2	ug/L	91			67	138	
	trans-1,2-Dichloroethene	20	18.3	ug/L	92			72	132	
	1,1-Dichloroethane	20	19.3	ug/L	97			74	135	
	Cyclohexane	20	18.3	ug/L	92			67	132	
	2-Butanone	100	88.1	ug/L	88			64	146	
	Carbon Tetrachloride	20	22.1	ug/L	111			71	134	
	cis-1,2-Dichloroethene	20	19.5	ug/L	98			74	130	
	Bromochloromethane	20	16.7	ug/L	84			71	136	
	Chloroform	20	20.4	ug/L	102			74	134	
	1,1,1-Trichloroethane	20	20.9	ug/L	104			74	133	
	Methylcyclohexane	20	19	ug/L	95			71	125	
	Benzene	20	19.6	ug/L	98			75	125	
	1,2-Dichloroethane	20	21.1	ug/L	106			76	130	
	Trichloroethene	20	19.5	ug/L	98			73	127	
	1,2-Dichloropropane	20	19.3	ug/L	97			76	125	
	Bromodichloromethane	20	21.5	ug/L	108			78	127	
	4-Methyl-2-Pentanone	100	89.3	ug/L	89			71	140	
	Toluene	20	19.8	ug/L	99			74	125	
	t-1,3-Dichloropropene	20	20.7	ug/L	104			74	131	
	cis-1,3-Dichloropropene	20	20.2	ug/L	101			74	128	
	1,1,2-Trichloroethane	20	20.1	ug/L	101			75	129	
	2-Hexanone	100	89.3	ug/L	89			62	153	
	Dibromochloromethane	20	21.6	ug/L	108			74	131	
	1,2-Dibromoethane	20	19.8	ug/L	99			74	129	
	Tetrachloroethene	20	20.5	ug/L	103			46	157	
	Chlorobenzene	20	20.2	ug/L	101			76	123	
	Ethyl Benzene	20	20.6	ug/L	103			75	126	
	m/p-Xylenes	40	41.7	ug/L	104			74	126	
	o-Xylene	20	20.6	ug/L	103			73	127	
	Styrene	20	21.2	ug/L	106			75	126	
	Bromoform	20	22.8	ug/L	114			66	130	
	Isopropylbenzene	20	20.4	ug/L	102			70	127	
	1,1,2,2-Tetrachloroethane	20	21.6	ug/L	108			66	131	
	1,3-Dichlorobenzene	20	20.8	ug/L	104			70	125	
	1,4-Dichlorobenzene	20	20.8	ug/L	104			71	124	
	1,2-Dichlorobenzene	20	20.9	ug/L	104			71	126	
	1,2-Dibromo-3-Chloropropane	20	19.1	ug/L	96			62	134	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low **Datafile :** VN015105.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0506WBS01	1,2,4-Trichlorobenzene	20	20.6	ug/L	103			62	129	
	1,2,3-Trichlorobenzene	20	20.6	ug/L	103			58	130	
	1,4-Dioxane	400	380	ug/L	95			50	150	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low **Datafile :** VN015128.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0506WBS02	Dichlorodifluoromethane	20	22.8	ug/L	114			30	155	
	Chloromethane	20	19.1	ug/L	96			40	125	
	Vinyl chloride	20	20.8	ug/L	104			50	145	
	Bromomethane	20	21.8	ug/L	109			30	145	
	Chloroethane	20	20.8	ug/L	104			60	135	
	Trichlorofluoromethane	20	23.6	ug/L	118			60	145	
	1,1,2-Trichlorotrifluoroethane	20	21.7	ug/L	109			52	142	
	1,1-Dichloroethene	20	20.8	ug/L	104			70	130	
	Acetone	100	93.9	ug/L	94			40	140	
	Carbon disulfide	20	17.9	ug/L	90			35	160	
	Methyl tert-butyl Ether	20	23.5	ug/L	117			65	125	
	Methyl Acetate	20	24.4	ug/L	122			51	158	
	Methylene Chloride	20	21.1	ug/L	106			55	140	
	trans-1,2-Dichloroethene	20	20.4	ug/L	102			60	140	
	1,1-Dichloroethane	20	21.7	ug/L	109			70	135	
	Cyclohexane	20	19.8	ug/L	99			56	141	
	2-Butanone	100	110	ug/L	110			30	150	
	Carbon Tetrachloride	20	24.4	ug/L	122			65	140	
	cis-1,2-Dichloroethene	20	21.7	ug/L	109			70	125	
	Bromochloromethane	20	20.2	ug/L	101			65	130	
	Chloroform	20	23.6	ug/L	118			65	135	
	1,1,1-Trichloroethane	20	24.4	ug/L	122			65	130	
	Methylcyclohexane	20	18.9	ug/L	95			56	137	
	Benzene	20	21.2	ug/L	106			80	120	
	1,2-Dichloroethane	20	23.6	ug/L	118			70	130	
	Trichloroethene	20	21.2	ug/L	106			70	125	
	1,2-Dichloropropane	20	21.5	ug/L	108			75	125	
	Bromodichloromethane	20	23.5	ug/L	117			75	120	
	4-Methyl-2-Pentanone	100	110	ug/L	110			60	135	
	Toluene	20	21.5	ug/L	108			75	120	
	t-1,3-Dichloropropene	20	21.7	ug/L	109			55	140	
	cis-1,3-Dichloropropene	20	21.9	ug/L	110			70	130	
	1,1,2-Trichloroethane	20	22.7	ug/L	114			75	125	
	2-Hexanone	100	110	ug/L	110			55	130	
	Dibromochloromethane	20	24.1	ug/L	121			60	135	
	1,2-Dibromoethane	20	22.7	ug/L	114			80	120	
	Tetrachloroethene	20	22.1	ug/L	111			45	150	
	Chlorobenzene	20	21.5	ug/L	108			80	120	
	Ethyl Benzene	20	22.1	ug/L	111			75	125	
	m/p-Xylenes	40	43.3	ug/L	108			75	130	
	o-Xylene	20	21.7	ug/L	109			80	120	
	Styrene	20	22.8	ug/L	114			65	135	
	Bromoform	20	26.6	ug/L	133		*	70	130	
	Isopropylbenzene	20	22.4	ug/L	112			75	125	
	1,1,2,2-Tetrachloroethane	20	26.1	ug/L	131		*	65	130	
	1,3-Dichlorobenzene	20	23.1	ug/L	116			75	125	
	1,4-Dichlorobenzene	20	21.6	ug/L	108			75	125	
	1,2-Dichlorobenzene	20	23	ug/L	115			70	120	
	1,2-Dibromo-3-Chloropropane	20	25.5	ug/L	128			50	130	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low **Datafile :** VN015128.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0506WBS02	1,2,4-Trichlorobenzene	20	23.1	ug/L	116			65	135	
	1,2,3-Trichlorobenzene	20	22.9	ug/L	115			55	140	
	1,4-Dioxane	400	460	ug/L	115			50	150	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low **Datafile :** VN015152.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0507WBS01	Dichlorodifluoromethane	20	21	ug/L	105			30	155	
	Chloromethane	20	16.9	ug/L	85			40	125	
	Vinyl chloride	20	19.1	ug/L	96			50	145	
	Bromomethane	20	19	ug/L	95			30	145	
	Chloroethane	20	18.3	ug/L	92			60	135	
	Trichlorofluoromethane	20	22.5	ug/L	113			60	145	
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/L	106			52	142	
	1,1-Dichloroethene	20	19.2	ug/L	96			70	130	
	Acetone	100	110	ug/L	110			40	140	
	Carbon disulfide	20	16.9	ug/L	85			35	160	
	Methyl tert-butyl Ether	20	20.8	ug/L	104			65	125	
	Methyl Acetate	20	21.6	ug/L	108			51	158	
	Methylene Chloride	20	19	ug/L	95			55	140	
	trans-1,2-Dichloroethene	20	18.9	ug/L	95			60	140	
	1,1-Dichloroethane	20	20	ug/L	100			70	135	
	Cyclohexane	20	18.6	ug/L	93			56	141	
	2-Butanone	100	97.1	ug/L	97			30	150	
	Carbon Tetrachloride	20	23.8	ug/L	119			65	140	
	cis-1,2-Dichloroethene	20	19.9	ug/L	100			70	125	
	Bromochloromethane	20	19	ug/L	95			65	130	
	Chloroform	20	21.5	ug/L	108			65	135	
	1,1,1-Trichloroethane	20	22.2	ug/L	111			65	130	
	Methylcyclohexane	20	19.4	ug/L	97			56	137	
	Benzene	20	20.5	ug/L	103			80	120	
	1,2-Dichloroethane	20	23.3	ug/L	117			70	130	
	Trichloroethene	20	21.1	ug/L	106			70	125	
	1,2-Dichloropropane	20	20.5	ug/L	103			75	125	
	Bromodichloromethane	20	22.9	ug/L	115			75	120	
	4-Methyl-2-Pentanone	100	100	ug/L	100			60	135	
	Toluene	20	21	ug/L	105			75	120	
	t-1,3-Dichloropropene	20	22.4	ug/L	112			55	140	
	cis-1,3-Dichloropropene	20	21.7	ug/L	109			70	130	
	1,1,2-Trichloroethane	20	21.6	ug/L	108			75	125	
	2-Hexanone	100	100	ug/L	100			55	130	
	Dibromochloromethane	20	23.6	ug/L	118			60	135	
	1,2-Dibromoethane	20	22.2	ug/L	111			80	120	
	Tetrachloroethene	20	21.4	ug/L	107			45	150	
	Chlorobenzene	20	21	ug/L	105			80	120	
	Ethyl Benzene	20	21.3	ug/L	106			75	125	
	m/p-Xylenes	40	42.8	ug/L	107			75	130	
	o-Xylene	20	20.7	ug/L	104			80	120	
	Styrene	20	22.2	ug/L	111			65	135	
	Bromoform	20	23.8	ug/L	119			70	130	
	Isopropylbenzene	20	21	ug/L	105			75	125	
	1,1,2,2-Tetrachloroethane	20	22.8	ug/L	114			65	130	
	1,3-Dichlorobenzene	20	22.4	ug/L	112			75	125	
	1,4-Dichlorobenzene	20	21.2	ug/L	106			75	125	
	1,2-Dichlorobenzene	20	21.8	ug/L	109			70	120	
	1,2-Dibromo-3-Chloropropane	20	23.1	ug/L	116			50	130	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low **Datafile :** VN015152.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0507WBS01	1,2,4-Trichlorobenzene	20	23.8	ug/L	119			65	135	
	1,2,3-Trichlorobenzene	20	22.6	ug/L	113			55	140	
	1,4-Dioxane	400	460	ug/L	115			50	150	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: F2206
Client: C.T. Male Associates, P.C.,
Analytical Method: SW8260-Low **Datafile :** VN015198.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0508WBS01	Dichlorodifluoromethane	20	21.3	ug/L	106			30	155	
	Chloromethane	20	17.6	ug/L	88			40	125	
	Vinyl chloride	20	19.6	ug/L	98			50	145	
	Bromomethane	20	19.4	ug/L	97			30	145	
	Chloroethane	20	19.7	ug/L	99			60	135	
	Trichlorofluoromethane	20	23.3	ug/L	117			60	145	
	1,1,2-Trichlorotrifluoroethane	20	22.3	ug/L	112			52	142	
	1,1-Dichloroethene	20	19.9	ug/L	100			70	130	
	Acetone	100	110	ug/L	110			40	140	
	Carbon disulfide	20	16.3	ug/L	81			35	160	
	Methyl tert-butyl Ether	20	23.2	ug/L	116			65	125	
	Methyl Acetate	20	24.5	ug/L	123			51	158	
	Methylene Chloride	20	20	ug/L	100			55	140	
	trans-1,2-Dichloroethene	20	19.6	ug/L	98			60	140	
	1,1-Dichloroethane	20	21.3	ug/L	106			70	135	
	Cyclohexane	20	18.7	ug/L	94			56	141	
	2-Butanone	100	110	ug/L	110			30	150	
	Carbon Tetrachloride	20	24.9	ug/L	125			65	140	
	cis-1,2-Dichloroethene	20	21.5	ug/L	108			70	125	
	Bromochloromethane	20	17.1	ug/L	86			65	130	
	Chloroform	20	23.4	ug/L	117			65	135	
	1,1,1-Trichloroethane	20	24.3	ug/L	121			65	130	
	Methylcyclohexane	20	18.7	ug/L	94			56	137	
	Benzene	20	21.6	ug/L	108			80	120	
	1,2-Dichloroethane	20	24.8	ug/L	124			70	130	
	Trichloroethene	20	21.6	ug/L	108			70	125	
	1,2-Dichloropropane	20	21	ug/L	105			75	125	
	Bromodichloromethane	20	24.4	ug/L	122		*	75	120	
	4-Methyl-2-Pentanone	100	120	ug/L	120			60	135	
	Toluene	20	21.8	ug/L	109			75	120	
	t-1,3-Dichloropropene	20	23	ug/L	115			55	140	
	cis-1,3-Dichloropropene	20	22.2	ug/L	111			70	130	
	1,1,2-Trichloroethane	20	23	ug/L	115			75	125	
	2-Hexanone	100	120	ug/L	120			55	130	
	Dibromochloromethane	20	25.1	ug/L	126			60	135	
	1,2-Dibromoethane	20	24.1	ug/L	121		*	80	120	
	Tetrachloroethene	20	21.1	ug/L	106			45	150	
	Chlorobenzene	20	21.5	ug/L	108			80	120	
	Ethyl Benzene	20	22	ug/L	110			75	125	
	m/p-Xylenes	40	43.3	ug/L	108			75	130	
	o-Xylene	20	21.6	ug/L	108			80	120	
	Styrene	20	22.9	ug/L	115			65	135	
	Bromoform	20	25.9	ug/L	130			70	130	
	Isopropylbenzene	20	21.7	ug/L	109			75	125	
	1,1,2,2-Tetrachloroethane	20	25.1	ug/L	126			65	130	
	1,3-Dichlorobenzene	20	22.7	ug/L	114			75	125	
	1,4-Dichlorobenzene	20	21.6	ug/L	108			75	125	
	1,2-Dichlorobenzene	20	22.7	ug/L	114			70	120	
	1,2-Dibromo-3-Chloropropane	20	25.3	ug/L	127			50	130	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: F2206

Client: C.T. Male Associates, P.C.,

Analytical Method: SW8260-Low **Datafile :** VN015198.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0508WBS01	1,2,4-Trichlorobenzene	20	23	ug/L	115			65	135	
	1,2,3-Trichlorobenzene	20	23.2	ug/L	116			55	140	
	1,4-Dioxane	400	480	ug/L	120			50	150	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VD0505SBL01

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VD041663.D Lab Sample ID: VD0505SBL01

Date Analyzed: 05/05/2014 Time Analyzed: 11:00

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VD0505SBS01	VD0505SBS01	VD041666.D	05/05/2014
ANOMALY-1(3)	F2206-10	VD041672.D	05/05/2014
ANOMALY-1(3)RE	F2206-10RE	VD041675.D	05/05/2014
SE-1-050214MS	F2205-06MS	VD041677.D	05/05/2014
SE-1-050214MSD	F2205-06MSD	VD041678.D	05/05/2014

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0506WBL01

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015104.D Lab Sample ID: VN0506WBL01

Date Analyzed: 05/06/2014 Time Analyzed: 10:53

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0506WBS01	VN0506WBS01	VN015105.D	05/06/2014
EB050114	F2206-15	VN015107.D	05/06/2014
BMW-11A	F2206-01	VN015108.D	05/06/2014
MW-8A	F2206-02	VN015109.D	05/06/2014
BMW-14A	F2206-03	VN015110.D	05/06/2014
BMW-19A	F2206-05	VN015113.D	05/06/2014
MW-10A	F2206-06	VN015114.D	05/06/2014
MW-2A	F2206-07	VN015115.D	05/06/2014
MW-1A	F2206-08	VN015117.D	05/06/2014
BMW-17A	F2206-09	VN015118.D	05/06/2014
BMW-15A	F2206-11	VN015119.D	05/06/2014
FD050114	F2206-12	VN015120.D	05/06/2014
MW-4A	F2206-16	VN015121.D	05/06/2014
MW-4AMS	F2206-17MS	VN015122.D	05/06/2014
MW-4AMSD	F2206-18MSD	VN015123.D	05/06/2014

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0506WBL02

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015127.D Lab Sample ID: VN0506WBL02

Date Analyzed: 05/07/2014 Time Analyzed: 00:05

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0506WBS02	VN0506WBS02	VN015128.D	05/07/2014
BMW-14ADL	F2206-03DL	VN015130.D	05/07/2014
BMW-19ADL	F2206-05DL	VN015131.D	05/07/2014
MW-10ADL	F2206-06DL	VN015132.D	05/07/2014
BMW-18A	F2206-04	VN015141.D	05/07/2014
BMW-13A	F2206-20	VN015143.D	05/07/2014
BMW-13ADL	F2206-20DL	VN015144.D	05/07/2014
MW-5A	F2206-19	VN015145.D	05/07/2014
BMW-12A	F2206-21	VN015146.D	05/07/2014

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0507WBL01

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015151.D Lab Sample ID: VN0507WBL01

Date Analyzed: 05/07/2014 Time Analyzed: 12:34

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0507WBS01	VN0507WBS01	VN015152.D	05/07/2014
BMW-15ADL	F2206-11DL	VN015153.D	05/07/2014
FD050114DL	F2206-12DL	VN015154.D	05/07/2014
TRIPBLANK	F2206-13	VN015159.D	05/07/2014
BMW-16A	F2206-22	VN015165.D	05/07/2014
MW-3A	F2206-14	VN015166.D	05/07/2014

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0508WBL01

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015197.D Lab Sample ID: VN0508WBL01

Date Analyzed: 05/08/2014 Time Analyzed: 14:38

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0508WBS01	VN0508WBS01	VN015198.D	05/08/2014
MW-3ADL	F2206-14DL	VN015199.D	05/08/2014

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VD041603.D BFB Injection Date: 05/01/2014

Instrument ID: MSVOA_D BFB Injection Time: 08:52

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	32.5
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	87.2
175	5.0 - 9.0% of mass 174	5.9 (6.7) 1
176	95.0 - 101.0% of mass 174	83.9 (96.2) 1
177	5.0 - 9.0% of mass 176	5.3 (6.3) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VD041604.D	05/01/2014	09:36
VSTDICC010	VSTDICC010	VD041605.D	05/01/2014	10:03
VSTDICC020	VSTDICC020	VD041606.D	05/01/2014	10:59
VSTDICCC050	VSTDICCC050	VD041607.D	05/01/2014	11:27
VSTDICC075	VSTDICC075	VD041608.D	05/01/2014	11:56
VSTDICC100	VSTDICC100	VD041609.D	05/01/2014	12:24

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VD041661.D BFB Injection Date: 05/05/2014

Instrument ID: MSVOA_D BFB Injection Time: 09:16

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	30.2
75	30.0 - 60.0% of mass 95	54.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.2 (0.3) 1
174	50.0 - 100.0% of mass 95	76.8
175	5.0 - 9.0% of mass 174	5.4 (7) 1
176	95.0 - 101.0% of mass 174	75.4 (98.3) 1
177	5.0 - 9.0% of mass 176	5.6 (7.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VD041662.D	05/05/2014	09:48
VD0505SBL01	VD0505SBL01	VD041663.D	05/05/2014	11:00
VD0505SBS01	VD0505SBS01	VD041666.D	05/05/2014	13:06
ANOMALY-1(3)	F2206-10	VD041672.D	05/05/2014	16:40
ANOMALY-1(3)RE	F2206-10RE	VD041675.D	05/05/2014	18:13
SE-1-050214MS	F2205-06MS	VD041677.D	05/05/2014	19:16
SE-1-050214MSD	F2205-06MSD	VD041678.D	05/05/2014	19:47

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN014802.D BFB Injection Date: 04/23/2014

Instrument ID: MSVOA_N BFB Injection Time: 10:35

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	55.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.4 (0.4) 1
174	50.0 - 100.0% of mass 95	85.8
175	5.0 - 9.0% of mass 174	6.6 (7.7) 1
176	95.0 - 101.0% of mass 174	83.2 (96.9) 1
177	5.0 - 9.0% of mass 176	5.5 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VN014803.D	04/23/2014	11:22
VSTDICC005	VSTDICC005	VN014804.D	04/23/2014	12:38
VSTDICC020	VSTDICC020	VN014805.D	04/23/2014	13:46
VSTDICCC050	VSTDICCC050	VN014806.D	04/23/2014	14:21
VSTDICC100	VSTDICC100	VN014807.D	04/23/2014	14:51
VSTDICC200	VSTDICC200	VN014808.D	04/23/2014	15:21

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015102.D BFB Injection Date: 05/06/2014

Instrument ID: MSVOA_N BFB Injection Time: 09:22

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	56.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	83.1
175	5.0 - 9.0% of mass 174	6.3 (7.5) 1
176	95.0 - 101.0% of mass 174	81.8 (98.5) 1
177	5.0 - 9.0% of mass 176	5.4 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN015103.D	05/06/2014	10:05
VN0506WBL01	VN0506WBL01	VN015104.D	05/06/2014	10:53
VN0506WBS01	VN0506WBS01	VN015105.D	05/06/2014	11:32
EB050114	F2206-15	VN015107.D	05/06/2014	12:32
BMW-11A	F2206-01	VN015108.D	05/06/2014	13:02
MW-8A	F2206-02	VN015109.D	05/06/2014	13:32
BMW-14A	F2206-03	VN015110.D	05/06/2014	14:02
BMW-19A	F2206-05	VN015113.D	05/06/2014	15:33
MW-10A	F2206-06	VN015114.D	05/06/2014	16:03
MW-2A	F2206-07	VN015115.D	05/06/2014	16:33
MW-1A	F2206-08	VN015117.D	05/06/2014	17:33
BMW-17A	F2206-09	VN015118.D	05/06/2014	18:04
BMW-15A	F2206-11	VN015119.D	05/06/2014	18:34
FD050114	F2206-12	VN015120.D	05/06/2014	19:04
MW-4A	F2206-16	VN015121.D	05/06/2014	19:34
MW-4AMS	F2206-17MS	VN015122.D	05/06/2014	20:04
MW-4AMSD	F2206-18MSD	VN015123.D	05/06/2014	20:34

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015125.D BFB Injection Date: 05/06/2014

Instrument ID: MSVOA_N BFB Injection Time: 22:04

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.4
75	30.0 - 60.0% of mass 95	56.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	85.6
175	5.0 - 9.0% of mass 174	6.7 (7.8) 1
176	95.0 - 101.0% of mass 174	81.4 (95.1) 1
177	5.0 - 9.0% of mass 176	5.4 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN015126.D	05/06/2014	22:34
VN0506WBL02	VN0506WBL02	VN015127.D	05/07/2014	00:05
VN0506WBS02	VN0506WBS02	VN015128.D	05/07/2014	00:35
BMW-14ADL	F2206-03DL	VN015130.D	05/07/2014	01:35
BMW-19ADL	F2206-05DL	VN015131.D	05/07/2014	02:05
MW-10ADL	F2206-06DL	VN015132.D	05/07/2014	02:35
BMW-18A	F2206-04	VN015141.D	05/07/2014	07:05
BMW-13A	F2206-20	VN015143.D	05/07/2014	08:05
BMW-13ADL	F2206-20DL	VN015144.D	05/07/2014	08:35
MW-5A	F2206-19	VN015145.D	05/07/2014	09:05
BMW-12A	F2206-21	VN015146.D	05/07/2014	09:35

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015149.D BFB Injection Date: 05/07/2014

Instrument ID: MSVOA_N BFB Injection Time: 11:05

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.4
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	84.3
175	5.0 - 9.0% of mass 174	6.9 (8.2) 1
176	95.0 - 101.0% of mass 174	80.8 (95.9) 1
177	5.0 - 9.0% of mass 176	5.6 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN015150.D	05/07/2014	11:43
VN0507WBL01	VN0507WBL01	VN015151.D	05/07/2014	12:34
VN0507WBS01	VN0507WBS01	VN015152.D	05/07/2014	13:09
BMW-15ADL	F2206-11DL	VN015153.D	05/07/2014	13:39
FD050114DL	F2206-12DL	VN015154.D	05/07/2014	14:09
TRIPBLANK	F2206-13	VN015159.D	05/07/2014	16:40
BMW-16A	F2206-22	VN015165.D	05/07/2014	19:41
MW-3A	F2206-14	VN015166.D	05/07/2014	20:11

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015195.D BFB Injection Date: 05/08/2014

Instrument ID: MSVOA_N BFB Injection Time: 11:42

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23
75	30.0 - 60.0% of mass 95	58
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	86.4
175	5.0 - 9.0% of mass 174	7 (8.1) 1
176	95.0 - 101.0% of mass 174	82.7 (95.8) 1
177	5.0 - 9.0% of mass 176	5.9 (7.1) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN015196.D	05/08/2014	13:24
VN0508WBL01	VN0508WBL01	VN015197.D	05/08/2014	14:38
VN0508WBS01	VN0508WBS01	VN015198.D	05/08/2014	15:08
MW-3ADL	F2206-14DL	VN015199.D	05/08/2014	15:39

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015216.D BFB Injection Date: 05/09/2014

Instrument ID: MSVOA_N BFB Injection Time: 01:09

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	59
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	86.8
175	5.0 - 9.0% of mass 174	6.8 (7.9) 1
176	95.0 - 101.0% of mass 174	84.1 (96.9) 1
177	5.0 - 9.0% of mass 176	5.1 (6.1) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN015217.D	05/09/2014	01:39

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VD041662.D Date Analyzed: 05/05/2014

Instrument ID: MSVOA_D Time Analyzed: 09:48

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	187235	6.50	271824	7.61	159382	11.80
UPPER LIMIT	374470	7	543648	8.11	318764	12.3
LOWER LIMIT	93617.5	6	135912	7.11	79691	11.3
EPA SAMPLE NO.						
SE-1-050214MS	134062	6.50	184838	7.61	118807	11.80
SE-1-050214MSD	169382	6.50	240433	7.62	144877	11.80
ANOMALY-1(3)	137807	6.51	183685	7.62	106843	11.80
ANOMALY-1(3)RE	130807	6.51	176699	7.62	104880	11.79
VD0505SBL01	175968	6.49	261343	7.61	158964	11.79
VD0505SBS01	167596	6.50	250399	7.61	155953	11.80

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VD041662.D Date Analyzed: 05/05/2014

Instrument ID: MSVOA_D Time Analyzed: 09:48

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #		RT #				
12 HOUR STD	60322		14.15				
UPPER LIMIT	120644		14.65				
LOWER LIMIT	30161		13.65				
EPA SAMPLE NO.							
SE-1-050214MS	47524		14.15				
SE-1-050214MSD	54687		14.16				
ANOMALY-1(3)	26822	*	14.16				
ANOMALY-1(3)RE	23746	*	14.16				
VD0505SBL01	51931		14.16				
VD0505SBS01	54056		14.15				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015103.D Date Analyzed: 05/06/2014

Instrument ID: MSVOA_N Time Analyzed: 10:05

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	276461	7.86	410610	8.78	352875	11.61
UPPER LIMIT	552922	8.36	821220	9.28	705750	12.11
LOWER LIMIT	138231	7.36	205305	8.28	176438	11.11
EPA SAMPLE NO.						
BMW-11A	233922	7.87	361582	8.78	308215	11.61
MW-8A	259156	7.87	408105	8.79	350865	11.61
BMW-14A	262570	7.87	398613	8.79	343101	11.61
BMW-19A	256388	7.87	388836	8.78	333008	11.61
MW-10A	266883	7.87	410047	8.78	348765	11.61
MW-2A	262739	7.87	408858	8.79	355177	11.61
MW-1A	258593	7.87	401739	8.79	357404	11.61
BMW-17A	249178	7.87	396533	8.79	350643	11.61
BMW-15A	254675	7.87	383640	8.79	332258	11.61
FD050114	262677	7.87	400100	8.79	350202	11.61
EB050114	248346	7.86	379053	8.78	321446	11.61
MW-4A	244648	7.87	383713	8.79	340624	11.61
MW-4AMS	241063	7.87	365869	8.79	320290	11.61
MW-4AMSD	240725	7.87	371147	8.79	320727	11.61
VN0506WBL01	254893	7.86	393683	8.78	341946	11.61
VN0506WBS01	278069	7.86	414477	8.78	346922	11.61

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015103.D Date Analyzed: 05/06/2014

Instrument ID: MSVOA_N Time Analyzed: 10:05

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	157158	13.56				
UPPER LIMIT	314316	14.06				
LOWER LIMIT	78579	13.06				
EPA SAMPLE NO.						
BMW-11A	91787	13.56				
MW-8A	105295	13.56				
BMW-14A	102634	13.56				
BMW-19A	103463	13.56				
MW-10A	106095	13.56				
MW-2A	112835	13.56				
MW-1A	114394	13.56				
BMW-17A	109612	13.56				
BMW-15A	107790	13.56				
FD050114	109748	13.56				
EB050114	98187	13.56				
MW-4A	111144	13.56				
MW-4AMS	147445	13.56				
MW-4AMSD	145640	13.56				
VN0506WBL01	104327	13.56				
VN0506WBS01	145311	13.56				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015126.D Date Analyzed: 05/06/2014

Instrument ID: MSVOA_N Time Analyzed: 22:34

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	243396	7.87	371040	8.79	319682	11.61
UPPER LIMIT	486792	8.37	742080	9.29	639364	12.11
LOWER LIMIT	121698	7.37	185520	8.29	159841	11.11
EPA SAMPLE NO.						
BMW-14ADL	228707	7.87	345465	8.78	296864	11.61
BMW-18A	220397	7.87	348687	8.79	308113	11.61
BMW-19ADL	244338	7.87	384831	8.78	339457	11.61
MW-10ADL	253969	7.87	390454	8.79	350149	11.61
MW-5A	216589	7.87	338230	8.78	298413	11.61
BMW-13A	247117	7.87	377538	8.78	334756	11.61
BMW-13ADL	230888	7.87	356424	8.78	312359	11.61
BMW-12A	214548	7.87	339118	8.78	301431	11.61
VN0506WBL02	244836	7.87	375119	8.79	331341	11.61
VN0506WBS02	237566	7.87	370070	8.79	318367	11.61

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015126.D Date Analyzed: 05/06/2014

Instrument ID: MSVOA_N Time Analyzed: 22:34

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	145487	13.56				
UPPER LIMIT	290974	14.06				
LOWER LIMIT	72743.5	13.06				
EPA SAMPLE NO.						
BMW-14ADL	86009	13.56				
BMW-18A	90724	13.56				
BMW-19ADL	104490	13.56				
MW-10ADL	108192	13.56				
MW-5A	93221	13.56				
BMW-13A	99619	13.56				
BMW-13ADL	96995	13.56				
BMW-12A	97517	13.56				
VN0506WBL02	103898	13.56				
VN0506WBS02	131314	13.56				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
*** Values outside of QC limits.**

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015150.D Date Analyzed: 05/07/2014

Instrument ID: MSVOA_N Time Analyzed: 11:43

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	237274	7.87	344251	8.78	303078	11.61
UPPER LIMIT	474548	8.37	688502	9.28	606156	12.11
LOWER LIMIT	118637	7.37	172126	8.28	151539	11.11
EPA SAMPLE NO.						
BMW-15ADL	220324	7.87	336819	8.79	292093	11.61
FD050114DL	240458	7.87	373082	8.78	327059	11.61
TRIPBLANK	212961	7.87	333793	8.79	288684	11.61
MW-3A	235561	7.87	360035	8.79	322038	11.61
BMW-16A	207595	7.87	325938	8.79	292921	11.61
VN0507WBL01	251366	7.87	389953	8.78	350187	11.61
VN0507WBS01	276257	7.87	407450	8.78	352777	11.61

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015150.D Date Analyzed: 05/07/2014

Instrument ID: MSVOA_N Time Analyzed: 11:43

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	136447	13.56				
UPPER LIMIT	272894	14.06				
LOWER LIMIT	68223.5	13.06				
EPA SAMPLE NO.						
BMW-15ADL	89543	13.56				
FD050114DL	106448	13.56				
TRIPBLANK	85073	13.56				
MW-3A	100245	13.56				
BMW-16A	93250	13.56				
VN0507WBL01	112519	13.56				
VN0507WBS01	150513	13.56				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015196.D Date Analyzed: 05/08/2014

Instrument ID: MSVOA_N Time Analyzed: 13:24

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	238870	7.87	348662	8.78	304532	11.61
UPPER LIMIT	477740	8.37	697324	9.28	609064	12.11
LOWER LIMIT	119435	7.37	174331	8.28	152266	11.11
EPA SAMPLE NO.						
MW-3ADL	226667	7.87	354986	8.79	314201	11.61
VN0508WBL01	222711	7.87	347145	8.79	314790	11.61
VN0508WBS01	231331	7.87	347843	8.79	306219	11.61

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG NO.: F2206

Lab File ID: VN015196.D Date Analyzed: 05/08/2014

Instrument ID: MSVOA_N Time Analyzed: 13:24

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	140799	13.56				
UPPER LIMIT	281598	14.06				
LOWER LIMIT	70399.5	13.06				
EPA SAMPLE NO.						
MW-3ADL	97052	13.56				
VN0508WBL01	97692	13.56				
VN0508WBS01	129130	13.56				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
*** Values outside of QC limits.**

QC SAMPLE DATA

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD0505SBL01	SDG No.:	F2206
Lab Sample ID:	VD0505SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041663.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.5	0.5	5	ug/Kg
74-87-3	Chloromethane	0.5	U	0.5	0.5	5	ug/Kg
75-01-4	Vinyl Chloride	0.5	U	0.5	0.5	5	ug/Kg
74-83-9	Bromomethane	1	U	1	1	5	ug/Kg
75-00-3	Chloroethane	0.5	U	0.5	0.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	0.5	U	0.5	0.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.5	0.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
67-64-1	Acetone	2.5	U	2.5	2.5	25	ug/Kg
75-15-0	Carbon Disulfide	0.5	U	0.5	0.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.5	0.5	5	ug/Kg
79-20-9	Methyl Acetate	1	U	1	1	5	ug/Kg
75-09-2	Methylene Chloride	0.5	U	0.5	0.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	0.5	U	0.5	0.5	5	ug/Kg
110-82-7	Cyclohexane	0.5	U	0.5	0.5	5	ug/Kg
78-93-3	2-Butanone	7.5	U	3.1	7.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	0.5	U	0.5	0.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.5	0.5	5	ug/Kg
74-97-5	Bromochloromethane	0.5	U	0.5	0.5	5	ug/Kg
67-66-3	Chloroform	0.5	U	0.5	0.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.5	U	0.5	0.5	5	ug/Kg
108-87-2	Methylcyclohexane	0.5	U	0.5	0.5	5	ug/Kg
71-43-2	Benzene	0.5	U	0.38	0.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	0.5	U	0.5	0.5	5	ug/Kg
79-01-6	Trichloroethene	0.5	U	0.5	0.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	0.5	U	0.26	0.5	5	ug/Kg
75-27-4	Bromodichloromethane	0.5	U	0.5	0.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5	25	ug/Kg
108-88-3	Toluene	0.5	U	0.5	0.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.5	0.5	5	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD0505SBL01	SDG No.:	F2206
Lab Sample ID:	VD0505SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041663.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.5	0.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	1	U	0.9	1	5	ug/Kg
591-78-6	2-Hexanone	2.5	U	2.5	2.5	25	ug/Kg
124-48-1	Dibromochloromethane	0.5	U	0.5	0.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	0.5	U	0.5	0.5	5	ug/Kg
127-18-4	Tetrachloroethene	0.5	U	0.5	0.5	5	ug/Kg
108-90-7	Chlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
100-41-4	Ethyl Benzene	0.5	U	0.5	0.5	5	ug/Kg
179601-23-1	m/p-Xylenes	1	U	0.72	1	10	ug/Kg
95-47-6	o-Xylene	0.5	U	0.5	0.5	5	ug/Kg
100-42-5	Styrene	0.5	U	0.45	0.5	5	ug/Kg
75-25-2	Bromoform	1.5	U	0.74	1.5	5	ug/Kg
98-82-8	Isopropylbenzene	0.5	U	0.48	0.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.46	0.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.5	U	0.37	0.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.5	U	0.41	0.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5	U	0.87	5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.5	0.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1	U	0.5	1	5	ug/Kg
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.4		56 - 120		91%	SPK: 50
1868-53-7	Dibromofluoromethane	43.6		57 - 135		87%	SPK: 50
2037-26-5	Toluene-d8	49.1		67 - 123		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		33 - 141		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	175968	6.49				
540-36-3	1,4-Difluorobenzene	261343	7.61				
3114-55-4	Chlorobenzene-d5	158964	11.79				
3855-82-1	1,4-Dichlorobenzene-d4	51931	14.16				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD0505SBL01	SDG No.:	F2206
Lab Sample ID:	VD0505SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041663.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
	unknown14.48	5.6	J			14.48	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0506WBL01	SDG No.:	F2206
Lab Sample ID:	VN0506WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015104.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.2	U	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0506WBL01	SDG No.:	F2206
Lab Sample ID:	VN0506WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015104.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.2		61 - 141		110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		69 - 133		106%	SPK: 50
2037-26-5	Toluene-d8	56.8		65 - 126		114%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		58 - 135		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	254893	7.86				
540-36-3	1,4-Difluorobenzene	393683	8.78				
3114-55-4	Chlorobenzene-d5	341946	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	104327	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0506WBL01	SDG No.:	F2206
Lab Sample ID:	VN0506WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015104.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0506WBL02	SDG No.:	F2206
Lab Sample ID:	VN0506WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015127.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.2	U	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0506WBL02	SDG No.:	F2206
Lab Sample ID:	VN0506WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015127.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.3		70 - 120		113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.9		85 - 115		108%	SPK: 50
2037-26-5	Toluene-d8	57.7		85 - 120		115%	SPK: 50
460-00-4	4-Bromofluorobenzene	50		75 - 120		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	244836	7.87				
540-36-3	1,4-Difluorobenzene	375119	8.79				
3114-55-4	Chlorobenzene-d5	331341	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	103898	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0506WBL02	SDG No.:	F2206
Lab Sample ID:	VN0506WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015127.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0507WBL01	SDG No.:	F2206
Lab Sample ID:	VN0507WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015151.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.2	U	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0507WBL01	SDG No.:	F2206
Lab Sample ID:	VN0507WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015151.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.8		70 - 120		118%	SPK: 50
1868-53-7	Dibromofluoromethane	54.2		85 - 115		108%	SPK: 50
2037-26-5	Toluene-d8	57.5		85 - 120		115%	SPK: 50
460-00-4	4-Bromofluorobenzene	51		75 - 120		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	251366	7.87				
540-36-3	1,4-Difluorobenzene	389953	8.78				
3114-55-4	Chlorobenzene-d5	350187	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	112519	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0507WBL01	SDG No.:	F2206
Lab Sample ID:	VN0507WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015151.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0508WBL01	SDG No.:	F2206
Lab Sample ID:	VN0508WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015197.D	1		05/08/14	VN050814

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.2	U	0.2	0.2	1	ug/L
74-87-3	Chloromethane	0.2	U	0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	0.2	U	0.2	0.2	1	ug/L
74-83-9	Bromomethane	0.2	U	0.2	0.2	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.2	U	0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	U	0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
67-64-1	Acetone	1	U	0.5	1	5	ug/L
75-15-0	Carbon Disulfide	0.2	U	0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.2	U	0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
110-82-7	Cyclohexane	0.2	U	0.2	0.2	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.2	U	0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.2	U	0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.2	U	0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	0.2	U	0.2	0.2	1	ug/L
71-43-2	Benzene	0.2	U	0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	0.2	U	0.2	0.2	1	ug/L
79-01-6	Trichloroethene	0.2	U	0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	0.2	U	0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	0.2	U	0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	1	U	1	1	5	ug/L
108-88-3	Toluene	0.2	U	0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0508WBL01	SDG No.:	F2206
Lab Sample ID:	VN0508WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015197.D	1		05/08/14	VN050814

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.2	U	0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	0.2	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.2	U	0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	0.2	U	0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	0.2	U	0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	0.2	U	0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	0.2	U	0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	0.4	U	0.4	0.4	2	ug/L
95-47-6	o-Xylene	0.2	U	0.2	0.2	1	ug/L
100-42-5	Styrene	0.2	U	0.2	0.2	1	ug/L
75-25-2	Bromoform	0.2	U	0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	0.2	U	0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.2	U	0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.2	U	0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.2	U	0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.6		70 - 120		119%	SPK: 50
1868-53-7	Dibromofluoromethane	55		85 - 115		110%	SPK: 50
2037-26-5	Toluene-d8	57.4		85 - 120		115%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		75 - 120		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	222711	7.87				
540-36-3	1,4-Difluorobenzene	347145	8.79				
3114-55-4	Chlorobenzene-d5	314790	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	97692	13.56				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0508WBL01	SDG No.:	F2206
Lab Sample ID:	VN0508WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015197.D	1		05/08/14	VN050814

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD0505SBS01	SDG No.:	F2206
Lab Sample ID:	VD0505SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041666.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21.8		0.5	0.5	5	ug/Kg
74-87-3	Chloromethane	19.7		0.5	0.5	5	ug/Kg
75-01-4	Vinyl Chloride	22.3		0.5	0.5	5	ug/Kg
74-83-9	Bromomethane	12.1		1	1	5	ug/Kg
75-00-3	Chloroethane	16.9		0.5	0.5	5	ug/Kg
75-69-4	Trichlorofluoromethane	23.3		0.5	0.5	5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	22.8		0.5	0.5	5	ug/Kg
75-35-4	1,1-Dichloroethene	21.1		0.5	0.5	5	ug/Kg
67-64-1	Acetone	93.3		2.5	2.5	25	ug/Kg
75-15-0	Carbon Disulfide	21.7		0.5	0.5	5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.6		0.5	0.5	5	ug/Kg
79-20-9	Methyl Acetate	20		1	1	5	ug/Kg
75-09-2	Methylene Chloride	20.8		0.5	0.5	5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	23.1		0.5	0.5	5	ug/Kg
75-34-3	1,1-Dichloroethane	23.4		0.5	0.5	5	ug/Kg
110-82-7	Cyclohexane	24.3		0.5	0.5	5	ug/Kg
78-93-3	2-Butanone	99.6		3.1	7.5	25	ug/Kg
56-23-5	Carbon Tetrachloride	23.2		0.5	0.5	5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	23.1		0.5	0.5	5	ug/Kg
74-97-5	Bromochloromethane	20.3		0.5	0.5	5	ug/Kg
67-66-3	Chloroform	22.8		0.5	0.5	5	ug/Kg
71-55-6	1,1,1-Trichloroethane	23.8		0.5	0.5	5	ug/Kg
108-87-2	Methylcyclohexane	22.7		0.5	0.5	5	ug/Kg
71-43-2	Benzene	22.4		0.38	0.5	5	ug/Kg
107-06-2	1,2-Dichloroethane	23.2		0.5	0.5	5	ug/Kg
79-01-6	Trichloroethene	22.7		0.5	0.5	5	ug/Kg
78-87-5	1,2-Dichloropropane	22.2		0.26	0.5	5	ug/Kg
75-27-4	Bromodichloromethane	23.4		0.5	0.5	5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		2.5	2.5	25	ug/Kg
108-88-3	Toluene	21.9		0.5	0.5	5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	22.1		0.5	0.5	5	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD0505SBS01	SDG No.:	F2206
Lab Sample ID:	VD0505SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041666.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	23.1		0.5	0.5	5	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.7		0.9	1	5	ug/Kg
591-78-6	2-Hexanone	100		2.5	2.5	25	ug/Kg
124-48-1	Dibromochloromethane	22.6		0.5	0.5	5	ug/Kg
106-93-4	1,2-Dibromoethane	21.4		0.5	0.5	5	ug/Kg
127-18-4	Tetrachloroethene	22.1		0.5	0.5	5	ug/Kg
108-90-7	Chlorobenzene	23		0.5	0.5	5	ug/Kg
100-41-4	Ethyl Benzene	22.2		0.5	0.5	5	ug/Kg
179601-23-1	m/p-Xylenes	46.2		0.72	1	10	ug/Kg
95-47-6	o-Xylene	23.1		0.5	0.5	5	ug/Kg
100-42-5	Styrene	22.8		0.45	0.5	5	ug/Kg
75-25-2	Bromoform	20.4		0.74	1.5	5	ug/Kg
98-82-8	Isopropylbenzene	24.9		0.48	0.5	5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	23.5		0.46	0.5	5	ug/Kg
541-73-1	1,3-Dichlorobenzene	23.1		0.37	0.5	5	ug/Kg
106-46-7	1,4-Dichlorobenzene	23.9		0.41	0.5	5	ug/Kg
95-50-1	1,2-Dichlorobenzene	22.6		0.5	0.5	5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	22.3		0.87	5	5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	23.6		0.5	0.5	5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	24.4		0.5	1	5	ug/Kg
123-91-1	1,4-Dioxane	420		100	100	100	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.7		56 - 120		93%	SPK: 50
1868-53-7	Dibromofluoromethane	45.7		57 - 135		91%	SPK: 50
2037-26-5	Toluene-d8	48.9		67 - 123		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		33 - 141		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	167596	6.5				
540-36-3	1,4-Difluorobenzene	250399	7.61				
3114-55-4	Chlorobenzene-d5	155953	11.8				
3855-82-1	1,4-Dichlorobenzene-d4	54056	14.15				

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VD0505SBS01	SDG No.:	F2206
Lab Sample ID:	VD0505SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041666.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0506WBS01	SDG No.:	F2206
Lab Sample ID:	VN0506WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015105.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19.2		0.2	0.2	1	ug/L
74-87-3	Chloromethane	18.4		0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	19		0.2	0.2	1	ug/L
74-83-9	Bromomethane	18.5		0.2	0.2	1	ug/L
75-00-3	Chloroethane	17.9		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	20.9		0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	18.4		0.2	0.2	1	ug/L
67-64-1	Acetone	92.5		0.5	1	5	ug/L
75-15-0	Carbon Disulfide	16.6		0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	19.2		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	20.1		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	18.2		0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	18.3		0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	19.3		0.2	0.2	1	ug/L
110-82-7	Cyclohexane	18.3		0.2	0.2	1	ug/L
78-93-3	2-Butanone	88.1		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	22.1		0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	19.5		0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	16.7		0.2	0.5	1	ug/L
67-66-3	Chloroform	20.4		0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	20.9		0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	19		0.2	0.2	1	ug/L
71-43-2	Benzene	19.6		0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	21.1		0.2	0.2	1	ug/L
79-01-6	Trichloroethene	19.5		0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	19.3		0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	21.5		0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	89.3		1	1	5	ug/L
108-88-3	Toluene	19.8		0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	20.7		0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0506WBS01	SDG No.:	F2206
Lab Sample ID:	VN0506WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015105.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	20.2		0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	20.1		0.2	0.2	1	ug/L
591-78-6	2-Hexanone	89.3		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	21.6		0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	19.8		0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	20.5		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	20.2		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	20.6		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	41.7		0.4	0.4	2	ug/L
95-47-6	o-Xylene	20.6		0.2	0.2	1	ug/L
100-42-5	Styrene	21.2		0.2	0.2	1	ug/L
75-25-2	Bromoform	22.8		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	20.4		0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.6		0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	20.8		0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	20.8		0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	20.9		0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.1		0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.6		0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.6		0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	380		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49		61 - 141		98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		69 - 133		100%	SPK: 50
2037-26-5	Toluene-d8	47.5		65 - 126		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		58 - 135		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	278069	7.86				
540-36-3	1,4-Difluorobenzene	414477	8.78				
3114-55-4	Chlorobenzene-d5	346922	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	145311	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0506WBS01	SDG No.:	F2206
Lab Sample ID:	VN0506WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015105.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0506WBS02	SDG No.:	F2206
Lab Sample ID:	VN0506WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015128.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	22.8		0.2	0.2	1	ug/L
74-87-3	Chloromethane	19.1		0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	20.8		0.2	0.2	1	ug/L
74-83-9	Bromomethane	21.8		0.2	0.2	1	ug/L
75-00-3	Chloroethane	20.8		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	23.6		0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.7		0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	20.8		0.2	0.2	1	ug/L
67-64-1	Acetone	93.9		0.5	1	5	ug/L
75-15-0	Carbon Disulfide	17.9		0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	23.5		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	24.4		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	21.1		0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	20.4		0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	21.7		0.2	0.2	1	ug/L
110-82-7	Cyclohexane	19.8		0.2	0.2	1	ug/L
78-93-3	2-Butanone	110		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	24.4		0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	21.7		0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	20.2		0.2	0.5	1	ug/L
67-66-3	Chloroform	23.6		0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	24.4		0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	18.9		0.2	0.2	1	ug/L
71-43-2	Benzene	21.2		0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	23.6		0.2	0.2	1	ug/L
79-01-6	Trichloroethene	21.2		0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	21.5		0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	23.5		0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	110		1	1	5	ug/L
108-88-3	Toluene	21.5		0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	21.7		0.2	0.2	1	ug/L

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0506WBS02	SDG No.:	F2206
Lab Sample ID:	VN0506WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015128.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	21.9		0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	22.7		0.2	0.2	1	ug/L
591-78-6	2-Hexanone	110		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	24.1		0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	22.7		0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	22.1		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	21.5		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	22.1		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	43.3		0.4	0.4	2	ug/L
95-47-6	o-Xylene	21.7		0.2	0.2	1	ug/L
100-42-5	Styrene	22.8		0.2	0.2	1	ug/L
75-25-2	Bromoform	26.6		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	22.4		0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	26.1		0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	23.1		0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	21.6		0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	23		0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	25.5		0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	23.1		0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	22.9		0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	460		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57		70 - 120		114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		85 - 115		107%	SPK: 50
2037-26-5	Toluene-d8	50.1		85 - 120		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		75 - 120		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	237566	7.87				
540-36-3	1,4-Difluorobenzene	370070	8.79				
3114-55-4	Chlorobenzene-d5	318367	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	131314	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0506WBS02	SDG No.:	F2206
Lab Sample ID:	VN0506WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015128.D	1		05/07/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0507WBS01	SDG No.:	F2206
Lab Sample ID:	VN0507WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015152.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21		0.2	0.2	1	ug/L
74-87-3	Chloromethane	16.9		0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	19.1		0.2	0.2	1	ug/L
74-83-9	Bromomethane	19		0.2	0.2	1	ug/L
75-00-3	Chloroethane	18.3		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	22.5		0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.2	0.2	1	ug/L
67-64-1	Acetone	110		0.5	1	5	ug/L
75-15-0	Carbon Disulfide	16.9		0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	20.8		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	21.6		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	19		0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	18.9		0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	20		0.2	0.2	1	ug/L
110-82-7	Cyclohexane	18.6		0.2	0.2	1	ug/L
78-93-3	2-Butanone	97.1		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	23.8		0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	19		0.2	0.5	1	ug/L
67-66-3	Chloroform	21.5		0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	22.2		0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	19.4		0.2	0.2	1	ug/L
71-43-2	Benzene	20.5		0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	23.3		0.2	0.2	1	ug/L
79-01-6	Trichloroethene	21.1		0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	20.5		0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	22.9		0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	100		1	1	5	ug/L
108-88-3	Toluene	21		0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	22.4		0.2	0.2	1	ug/L

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0507WBS01	SDG No.:	F2206
Lab Sample ID:	VN0507WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015152.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	21.7		0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.2	0.2	1	ug/L
591-78-6	2-Hexanone	100		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	23.6		0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	22.2		0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	21.4		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	21		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	21.3		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	42.8		0.4	0.4	2	ug/L
95-47-6	o-Xylene	20.7		0.2	0.2	1	ug/L
100-42-5	Styrene	22.2		0.2	0.2	1	ug/L
75-25-2	Bromoform	23.8		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	21		0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	22.8		0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	22.4		0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	21.2		0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	21.8		0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	23.1		0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	23.8		0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	22.6		0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	460		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.4		70 - 120		105%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		85 - 115		105%	SPK: 50
2037-26-5	Toluene-d8	49.4		85 - 120		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.6		75 - 120		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	276257	7.87				
540-36-3	1,4-Difluorobenzene	407450	8.78				
3114-55-4	Chlorobenzene-d5	352777	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	150513	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0507WBS01	SDG No.:	F2206
Lab Sample ID:	VN0507WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015152.D	1		05/07/14	VN050714

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0508WBS01	SDG No.:	F2206
Lab Sample ID:	VN0508WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015198.D	1		05/08/14	VN050814

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21.3		0.2	0.2	1	ug/L
74-87-3	Chloromethane	17.6		0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	19.6		0.2	0.2	1	ug/L
74-83-9	Bromomethane	19.4		0.2	0.2	1	ug/L
75-00-3	Chloroethane	19.7		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	23.3		0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	22.3		0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	19.9		0.2	0.2	1	ug/L
67-64-1	Acetone	110		0.5	1	5	ug/L
75-15-0	Carbon Disulfide	16.3		0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	23.2		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	24.5		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	20		0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	19.6		0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	21.3		0.2	0.2	1	ug/L
110-82-7	Cyclohexane	18.7		0.2	0.2	1	ug/L
78-93-3	2-Butanone	110		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	24.9		0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	21.5		0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	17.1		0.2	0.5	1	ug/L
67-66-3	Chloroform	23.4		0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	24.3		0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	18.7		0.2	0.2	1	ug/L
71-43-2	Benzene	21.6		0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	24.8		0.2	0.2	1	ug/L
79-01-6	Trichloroethene	21.6		0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	21		0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	24.4		0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	120		1	1	5	ug/L
108-88-3	Toluene	21.8		0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	23		0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0508WBS01	SDG No.:	F2206
Lab Sample ID:	VN0508WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015198.D	1		05/08/14	VN050814

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	22.2		0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	23		0.2	0.2	1	ug/L
591-78-6	2-Hexanone	120		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	25.1		0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	24.1		0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	21.1		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	21.5		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	22		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	43.3		0.4	0.4	2	ug/L
95-47-6	o-Xylene	21.6		0.2	0.2	1	ug/L
100-42-5	Styrene	22.9		0.2	0.2	1	ug/L
75-25-2	Bromoform	25.9		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	21.7		0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	25.1		0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	22.7		0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	21.6		0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	22.7		0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	25.3		0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	23		0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	23.2		0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	480		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.6		70 - 120		105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		85 - 115		103%	SPK: 50
2037-26-5	Toluene-d8	47.6		85 - 120		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		75 - 120		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	231331	7.87				
540-36-3	1,4-Difluorobenzene	347843	8.79				
3114-55-4	Chlorobenzene-d5	306219	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	129130	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	
Project:	Old Champlain Mill Property	Date Received:	
Client Sample ID:	VN0508WBS01	SDG No.:	F2206
Lab Sample ID:	VN0508WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015198.D	1		05/08/14	VN050814

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	SE-1-050214MS	SDG No.:	F2206
Lab Sample ID:	F2205-06MS	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	14.4
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041677.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	66.2		0.58	0.58	5.8	ug/Kg
74-87-3	Chloromethane	45.5		0.58	0.58	5.8	ug/Kg
75-01-4	Vinyl Chloride	51.3		0.58	0.58	5.8	ug/Kg
74-83-9	Bromomethane	68.3		1.2	1.2	5.8	ug/Kg
75-00-3	Chloroethane	67.3		0.58	0.58	5.8	ug/Kg
75-69-4	Trichlorofluoromethane	68.6		0.58	0.58	5.8	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	71.7		0.58	0.58	5.8	ug/Kg
75-35-4	1,1-Dichloroethene	71.1		0.58	0.58	5.8	ug/Kg
67-64-1	Acetone	310		2.9	2.9	29.2	ug/Kg
75-15-0	Carbon Disulfide	70.6		0.58	0.58	5.8	ug/Kg
1634-04-4	Methyl tert-butyl Ether	71		0.58	0.58	5.8	ug/Kg
79-20-9	Methyl Acetate	65.2		1.2	1.2	5.8	ug/Kg
75-09-2	Methylene Chloride	71.1		0.58	0.58	5.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	70.6		0.58	0.58	5.8	ug/Kg
75-34-3	1,1-Dichloroethane	63.5		0.58	0.58	5.8	ug/Kg
110-82-7	Cyclohexane	67.9		0.58	0.58	5.8	ug/Kg
78-93-3	2-Butanone	360		3.6	8.8	29.2	ug/Kg
56-23-5	Carbon Tetrachloride	93.6		0.58	0.58	5.8	ug/Kg
156-59-2	cis-1,2-Dichloroethene	75.3		0.58	0.58	5.8	ug/Kg
74-97-5	Bromochloromethane	58.2		0.58	0.58	5.8	ug/Kg
67-66-3	Chloroform	76.5		0.58	0.58	5.8	ug/Kg
71-55-6	1,1,1-Trichloroethane	76.4		0.58	0.58	5.8	ug/Kg
108-87-2	Methylcyclohexane	74		0.58	0.58	5.8	ug/Kg
71-43-2	Benzene	73.4		0.44	0.58	5.8	ug/Kg
107-06-2	1,2-Dichloroethane	75.9		0.58	0.58	5.8	ug/Kg
79-01-6	Trichloroethene	78.6		0.58	0.58	5.8	ug/Kg
78-87-5	1,2-Dichloropropane	78.2		0.3	0.58	5.8	ug/Kg
75-27-4	Bromodichloromethane	85.8		0.58	0.58	5.8	ug/Kg
108-10-1	4-Methyl-2-Pentanone	410		2.9	2.9	29.2	ug/Kg
108-88-3	Toluene	78.6		0.58	0.58	5.8	ug/Kg
10061-02-6	t-1,3-Dichloropropene	87.2		0.58	0.58	5.8	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	SE-1-050214MS	SDG No.:	F2206
Lab Sample ID:	F2205-06MS	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	14.4
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041677.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	82.8		0.58	0.58	5.8	ug/Kg
79-00-5	1,1,2-Trichloroethane	82.1		1.1	1.2	5.8	ug/Kg
591-78-6	2-Hexanone	410		2.9	2.9	29.2	ug/Kg
124-48-1	Dibromochloromethane	95.1		0.58	0.58	5.8	ug/Kg
106-93-4	1,2-Dibromoethane	86.5		0.58	0.58	5.8	ug/Kg
127-18-4	Tetrachloroethene	79.7		0.58	0.58	5.8	ug/Kg
108-90-7	Chlorobenzene	77.7		0.58	0.58	5.8	ug/Kg
100-41-4	Ethyl Benzene	77.5		0.58	0.58	5.8	ug/Kg
179601-23-1	m/p-Xylenes	160		0.84	1.2	11.7	ug/Kg
95-47-6	o-Xylene	79.6		0.58	0.58	5.8	ug/Kg
100-42-5	Styrene	87		0.53	0.58	5.8	ug/Kg
75-25-2	Bromoform	88.8		0.86	1.8	5.8	ug/Kg
98-82-8	Isopropylbenzene	70.6		0.56	0.58	5.8	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	82		0.54	0.58	5.8	ug/Kg
541-73-1	1,3-Dichlorobenzene	74.5		0.43	0.58	5.8	ug/Kg
106-46-7	1,4-Dichlorobenzene	75.9		0.48	0.58	5.8	ug/Kg
95-50-1	1,2-Dichlorobenzene	73.9		0.58	0.58	5.8	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	76.5		1	5.8	5.8	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	70.7		0.58	0.58	5.8	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	69.1		0.58	1.2	5.8	ug/Kg
123-91-1	1,4-Dioxane	1700		120	120	120	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.1		56 - 120		104%	SPK: 50
1868-53-7	Dibromofluoromethane	57.5		57 - 135		115%	SPK: 50
2037-26-5	Toluene-d8	57.6		67 - 123		115%	SPK: 50
460-00-4	4-Bromofluorobenzene	61.8		33 - 141		124%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	134062	6.5				
540-36-3	1,4-Difluorobenzene	184838	7.61				
3114-55-4	Chlorobenzene-d5	118807	11.8				
3855-82-1	1,4-Dichlorobenzene-d4	47524	14.15				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	SE-1-050214MS	SDG No.:	F2206
Lab Sample ID:	F2205-06MS	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	14.4
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041677.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-4AMS	SDG No.:	F2206
Lab Sample ID:	F2206-17MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015122.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	55.9		0.2	0.2	1	ug/L
74-87-3	Chloromethane	45.9		0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	53.6		0.2	0.2	1	ug/L
74-83-9	Bromomethane	46.2		0.2	0.2	1	ug/L
75-00-3	Chloroethane	50.5		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	58.2		0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	54.7		0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	51.7		0.2	0.2	1	ug/L
67-64-1	Acetone	250		0.5	1	5	ug/L
75-15-0	Carbon Disulfide	41.6		0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	57.1		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	66.5		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	50.6		0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	52.4		0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	51.6		0.2	0.2	1	ug/L
110-82-7	Cyclohexane	43.9		0.2	0.2	1	ug/L
78-93-3	2-Butanone	290		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	60.2		0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	57.3		0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	43.1		0.2	0.5	1	ug/L
67-66-3	Chloroform	55.2		0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	57.6		0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	49.6		0.2	0.2	1	ug/L
71-43-2	Benzene	52.9		0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	58.8		0.2	0.2	1	ug/L
79-01-6	Trichloroethene	53.9		0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	50.7		0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	56.9		0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	310		1	1	5	ug/L
108-88-3	Toluene	53.8		0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	57.2		0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-4AMS	SDG No.:	F2206
Lab Sample ID:	F2206-17MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015122.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	53.5		0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	56.2		0.2	0.2	1	ug/L
591-78-6	2-Hexanone	320		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	60.1		0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	57.4		0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	52.1		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	52.9		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	54.4		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	110		0.4	0.4	2	ug/L
95-47-6	o-Xylene	53.2		0.2	0.2	1	ug/L
100-42-5	Styrene	59.3		0.2	0.2	1	ug/L
75-25-2	Bromoform	65.6		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	48.6		0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	57.8		0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	52.7		0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	50.9		0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	52.1		0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	66		0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	60.7		0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	51.6		0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	1300		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.8		61 - 141		106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		69 - 133		102%	SPK: 50
2037-26-5	Toluene-d8	48.9		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		58 - 135		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	241063	7.87				
540-36-3	1,4-Difluorobenzene	365869	8.79				
3114-55-4	Chlorobenzene-d5	320290	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	147445	13.56				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-4AMS	SDG No.:	F2206
Lab Sample ID:	F2206-17MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015122.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	SE-1-050214MSD	SDG No.:	F2206
Lab Sample ID:	F2205-06MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	14.4
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041678.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	43		0.58	0.58	5.8	ug/Kg
74-87-3	Chloromethane	37.3		0.58	0.58	5.8	ug/Kg
75-01-4	Vinyl Chloride	45.1		0.58	0.58	5.8	ug/Kg
74-83-9	Bromomethane	45.5		1.2	1.2	5.8	ug/Kg
75-00-3	Chloroethane	46.7		0.58	0.58	5.8	ug/Kg
75-69-4	Trichlorofluoromethane	53.7		0.58	0.58	5.8	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	48.7		0.58	0.58	5.8	ug/Kg
75-35-4	1,1-Dichloroethene	50.7		0.58	0.58	5.8	ug/Kg
67-64-1	Acetone	230		2.9	2.9	29.2	ug/Kg
75-15-0	Carbon Disulfide	49.5		0.58	0.58	5.8	ug/Kg
1634-04-4	Methyl tert-butyl Ether	52.6		0.58	0.58	5.8	ug/Kg
79-20-9	Methyl Acetate	50.1		1.2	1.2	5.8	ug/Kg
75-09-2	Methylene Chloride	46.5		0.58	0.58	5.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	50.2		0.58	0.58	5.8	ug/Kg
75-34-3	1,1-Dichloroethane	46.9		0.58	0.58	5.8	ug/Kg
110-82-7	Cyclohexane	50.7		0.58	0.58	5.8	ug/Kg
78-93-3	2-Butanone	270		3.6	8.8	29.2	ug/Kg
56-23-5	Carbon Tetrachloride	59.7		0.58	0.58	5.8	ug/Kg
156-59-2	cis-1,2-Dichloroethene	53.8		0.58	0.58	5.8	ug/Kg
74-97-5	Bromochloromethane	45		0.58	0.58	5.8	ug/Kg
67-66-3	Chloroform	53.6		0.58	0.58	5.8	ug/Kg
71-55-6	1,1,1-Trichloroethane	53.7		0.58	0.58	5.8	ug/Kg
108-87-2	Methylcyclohexane	53.8		0.58	0.58	5.8	ug/Kg
71-43-2	Benzene	49.4		0.44	0.58	5.8	ug/Kg
107-06-2	1,2-Dichloroethane	52.9		0.58	0.58	5.8	ug/Kg
79-01-6	Trichloroethene	54.2		0.58	0.58	5.8	ug/Kg
78-87-5	1,2-Dichloropropane	53.1		0.3	0.58	5.8	ug/Kg
75-27-4	Bromodichloromethane	55.6		0.58	0.58	5.8	ug/Kg
108-10-1	4-Methyl-2-Pentanone	280		2.9	2.9	29.2	ug/Kg
108-88-3	Toluene	52.9		0.58	0.58	5.8	ug/Kg
10061-02-6	t-1,3-Dichloropropene	55.8		0.58	0.58	5.8	ug/Kg

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	SE-1-050214MSD	SDG No.:	F2206
Lab Sample ID:	F2205-06MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	14.4
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041678.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	55.1		0.58	0.58	5.8	ug/Kg
79-00-5	1,1,2-Trichloroethane	54.6		1.1	1.2	5.8	ug/Kg
591-78-6	2-Hexanone	280		2.9	2.9	29.2	ug/Kg
124-48-1	Dibromochloromethane	60.1		0.58	0.58	5.8	ug/Kg
106-93-4	1,2-Dibromoethane	57.4		0.58	0.58	5.8	ug/Kg
127-18-4	Tetrachloroethene	53.9		0.58	0.58	5.8	ug/Kg
108-90-7	Chlorobenzene	53.8		0.58	0.58	5.8	ug/Kg
100-41-4	Ethyl Benzene	55.6		0.58	0.58	5.8	ug/Kg
179601-23-1	m/p-Xylenes	110		0.84	1.2	11.7	ug/Kg
95-47-6	o-Xylene	54.9		0.58	0.58	5.8	ug/Kg
100-42-5	Styrene	57.9		0.53	0.58	5.8	ug/Kg
75-25-2	Bromoform	63.7		0.86	1.8	5.8	ug/Kg
98-82-8	Isopropylbenzene	54.7		0.56	0.58	5.8	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	59.1		0.54	0.58	5.8	ug/Kg
541-73-1	1,3-Dichlorobenzene	53.6		0.43	0.58	5.8	ug/Kg
106-46-7	1,4-Dichlorobenzene	54.2		0.48	0.58	5.8	ug/Kg
95-50-1	1,2-Dichlorobenzene	53.4		0.58	0.58	5.8	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	53.6		1	5.8	5.8	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	49.3		0.58	0.58	5.8	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	49.8		0.58	1.2	5.8	ug/Kg
123-91-1	1,4-Dioxane	1100		120	120	120	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	40.7		56 - 120		81%	SPK: 50
1868-53-7	Dibromofluoromethane	43.3		57 - 135		87%	SPK: 50
2037-26-5	Toluene-d8	42.8		67 - 123		86%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.4		33 - 141		87%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	169382	6.5				
540-36-3	1,4-Difluorobenzene	240433	7.62				
3114-55-4	Chlorobenzene-d5	144877	11.8				
3855-82-1	1,4-Dichlorobenzene-d4	54687	14.16				

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Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/02/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	SE-1-050214MSD	SDG No.:	F2206
Lab Sample ID:	F2205-06MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	14.4
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD041678.D	1		05/05/14	VD050514

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-4AMSD	SDG No.:	F2206
Lab Sample ID:	F2206-18MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015123.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	55.1		0.2	0.2	1	ug/L
74-87-3	Chloromethane	44.9		0.2	0.2	1	ug/L
75-01-4	Vinyl Chloride	53.8		0.2	0.2	1	ug/L
74-83-9	Bromomethane	49.1		0.2	0.2	1	ug/L
75-00-3	Chloroethane	50.4		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	58.8		0.2	0.2	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	53.2		0.2	0.2	1	ug/L
75-35-4	1,1-Dichloroethene	51.1		0.2	0.2	1	ug/L
67-64-1	Acetone	250		0.5	1	5	ug/L
75-15-0	Carbon Disulfide	41		0.2	0.2	1	ug/L
1634-04-4	Methyl tert-butyl Ether	57.1		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	64.6		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	50.9		0.2	0.2	1	ug/L
156-60-5	trans-1,2-Dichloroethene	50		0.2	0.2	1	ug/L
75-34-3	1,1-Dichloroethane	51.6		0.2	0.2	1	ug/L
110-82-7	Cyclohexane	44		0.2	0.2	1	ug/L
78-93-3	2-Butanone	280		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	59.7		0.2	0.2	1	ug/L
156-59-2	cis-1,2-Dichloroethene	57.5		0.2	0.2	1	ug/L
74-97-5	Bromochloromethane	42.7		0.2	0.5	1	ug/L
67-66-3	Chloroform	54.3		0.2	0.2	1	ug/L
71-55-6	1,1,1-Trichloroethane	58.9		0.2	0.2	1	ug/L
108-87-2	Methylcyclohexane	48.7		0.2	0.2	1	ug/L
71-43-2	Benzene	52.2		0.2	0.2	1	ug/L
107-06-2	1,2-Dichloroethane	58.3		0.2	0.2	1	ug/L
79-01-6	Trichloroethene	52.9		0.2	0.2	1	ug/L
78-87-5	1,2-Dichloropropane	50		0.2	0.2	1	ug/L
75-27-4	Bromodichloromethane	56.9		0.2	0.2	1	ug/L
108-10-1	4-Methyl-2-Pentanone	310		1	1	5	ug/L
108-88-3	Toluene	53.4		0.2	0.2	1	ug/L
10061-02-6	t-1,3-Dichloropropene	57.4		0.2	0.2	1	ug/L

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-4AMSD	SDG No.:	F2206
Lab Sample ID:	F2206-18MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015123.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	53.4		0.2	0.2	1	ug/L
79-00-5	1,1,2-Trichloroethane	56		0.2	0.2	1	ug/L
591-78-6	2-Hexanone	310		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	59.6		0.2	0.2	1	ug/L
106-93-4	1,2-Dibromoethane	58.4		0.2	0.2	1	ug/L
127-18-4	Tetrachloroethene	52.3		0.2	0.2	1	ug/L
108-90-7	Chlorobenzene	52.3		0.2	0.2	1	ug/L
100-41-4	Ethyl Benzene	54.4		0.2	0.2	1	ug/L
179601-23-1	m/p-Xylenes	110		0.4	0.4	2	ug/L
95-47-6	o-Xylene	53.8		0.2	0.2	1	ug/L
100-42-5	Styrene	59.7		0.2	0.2	1	ug/L
75-25-2	Bromoform	65.6		0.2	0.2	1	ug/L
98-82-8	Isopropylbenzene	49.7		0.2	0.2	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	58.9		0.2	0.2	1	ug/L
541-73-1	1,3-Dichlorobenzene	53.5		0.2	0.2	1	ug/L
106-46-7	1,4-Dichlorobenzene	51.9		0.2	0.2	1	ug/L
95-50-1	1,2-Dichlorobenzene	54.2		0.2	0.2	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	64.2		0.2	0.2	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	62.6		0.2	0.2	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	54.9		0.2	0.2	1	ug/L
123-91-1	1,4-Dioxane	1300		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.9		61 - 141		102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		69 - 133		98%	SPK: 50
2037-26-5	Toluene-d8	46.5		65 - 126		93%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		58 - 135		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	240725	7.87				
540-36-3	1,4-Difluorobenzene	371147	8.79				
3114-55-4	Chlorobenzene-d5	320727	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	145640	13.56				

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	C.T. Male Associates, P.C.,	Date Collected:	05/01/14
Project:	Old Champlain Mill Property	Date Received:	05/03/14
Client Sample ID:	MW-4AMSD	SDG No.:	F2206
Lab Sample ID:	F2206-18MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN015123.D	1		05/06/14	VN050614

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_D Calibration Date(s): 05/01/2014 05/01/2014

Heated Purge: (Y/N) Y Calibration Time(s): 09:36 12:24

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VD041604.D RRF010 = VD041605.D RRF020 = VD041606.D
RRF050 = VD041607.D RRF075 = VD041608.D RRF100 = VD041609.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF075	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.220	0.970	1.219	0.977	0.952	0.795	1.022	16.3
Chloromethane	1.005	0.735	0.926	0.766	0.753	0.644	0.805	16.6
Vinyl Chloride	0.622	0.428	0.542	0.465	0.485	0.415	0.493	15.8
Bromomethane	0.456	0.276	0.313	0.219	0.216		0.296	33.2
Chloroethane	0.804	0.542	0.632	0.572	0.510	0.422	0.580	22.4
Trichlorofluoromethane	1.652	1.229	1.468	1.388	1.294	1.199	1.372	12.4
1,1,2-Trichlorotrifluoroethane	0.894	0.664	0.818	0.715	0.717	0.633	0.740	13.2
1,1-Dichloroethene	0.691	0.515	0.697	0.590	0.602	0.500	0.599	14
Acetone	0.253	0.200	0.235	0.244	0.250	0.209	0.232	9.6
Carbon Disulfide	3.122	2.274	2.900	2.652	2.775	2.287	2.668	12.7
Methyl tert-butyl Ether	1.482	1.235	1.634	1.493	1.579	1.154	1.429	13.5
Methyl Acetate	1.360	1.070	1.339	1.140	1.177	0.920	1.168	14.2
Methylene Chloride	1.028	0.719	0.871	0.778	0.853	0.625	0.813	17.1
trans-1,2-Dichloroethene	0.798	0.586	0.775	0.658	0.700	0.549	0.678	14.7
1,1-Dichloroethane	2.116	1.513	1.816	1.603	1.798	1.447	1.715	14.3
Cyclohexane	1.311	0.999	1.326	1.171	1.243	1.049	1.183	11.5
2-Butanone	0.331	0.269	0.354	0.340	0.395	0.268	0.326	15.3
Carbon Tetrachloride	0.579	0.397	0.646	0.603	0.656	0.573	0.576	16.3
cis-1,2-Dichloroethene	0.730	0.568	0.756	0.680	0.774	0.634	0.690	11.4
Bromochloromethane	0.791	0.864	0.832	1.215	1.207	0.915	0.971	19.6
Chloroform	1.718	1.236	1.691	1.515	1.643	1.321	1.521	13.3
1,1,1-Trichloroethane	1.187	0.858	1.153	1.018	1.129	0.954	1.050	12.2
Methylcyclohexane	0.576	0.431	0.522	0.470	0.495	0.453	0.491	10.7
Benzene	2.052	1.502	1.791	1.800	1.723	1.483	1.725	12.3
1,2-Dichloroethane	0.830	0.620	0.798	0.776	0.850	0.673	0.758	12.1
Trichloroethene	0.378	0.272	0.334	0.319	0.333	0.293	0.322	11.5
1,2-Dichloropropane	0.575	0.395	0.558	0.511	0.533	0.430	0.500	14.5
Bromodichloromethane	0.580	0.423	0.585	0.571	0.622	0.531	0.552	12.6
4-Methyl-2-Pentanone	0.423	0.308	0.389	0.393	0.438	0.337	0.381	13.1
Toluene	0.788	0.571	0.686	0.683	0.686	0.578	0.665	12.2
t-1,3-Dichloropropene	0.427	0.317	0.449	0.468	0.505	0.415	0.430	14.8
cis-1,3-Dichloropropene	0.546	0.438	0.609	0.616	0.663	0.530	0.567	14.1
1,1,2-Trichloroethane	0.230	0.170	0.216	0.212	0.227	0.183	0.206	11.9

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_D Calibration Date(s): 05/01/2014 05/01/2014

Heated Purge: (Y/N) Y Calibration Time(s): 09:36 12:24

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VD041604.D RRF010 = VD041605.D RRF020 = VD041606.D
RRF050 = VD041607.D RRF075 = VD041608.D RRF100 = VD041609.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF075	RRF100	$\overline{RRF}$	% RSD
2-Hexanone	0.194	0.165	0.238	0.254	0.280	0.218	0.225	18.5
Dibromochloromethane	0.211	0.179	0.259	0.262	0.298	0.241	0.242	17.4
1,2-Dibromoethane	0.197	0.152	0.222	0.210	0.229	0.182	0.198	14.3
Tetrachloroethene	0.461	0.322	0.405	0.343	0.349	0.330	0.368	14.7
Chlorobenzene	1.111	0.845	1.098	0.913	0.992	0.890	0.975	11.4
Ethyl Benzene	2.102	1.490	2.146	1.766	1.967	1.810	1.880	13
m/p-Xylenes	0.683	0.483	0.619	0.566	0.574	0.562	0.581	11.5
o-Xylene	0.495	0.431	0.612	0.510	0.547	0.520	0.519	11.5
Styrene	0.793	0.629	0.998	0.877	0.997	0.876	0.862	16.1
Bromoform	0.104	0.105	0.184	0.174	0.208	0.187	0.160	27.9
Isopropylbenzene	4.229	3.241	4.468	3.942	4.008	3.491	3.897	11.7
1,1,2,2-Tetrachloroethane	0.929	0.783	1.112	1.009	1.055	0.860	0.958	12.9
1,3-Dichlorobenzene	1.586	1.205	1.646	1.492	1.558	1.329	1.469	11.5
1,4-Dichlorobenzene	1.671	1.196	1.613	1.460	1.522	1.324	1.465	12.2
1,2-Dichlorobenzene	1.382	1.022	1.408	1.318	1.352	1.159	1.273	11.9
1,2-Dibromo-3-Chloropropane	0.021	0.044	0.066	0.069	0.073	0.058	0.055	35.4
1,2,4-Trichlorobenzene	0.536	0.390	0.563	0.520	0.566	0.523	0.516	12.5
1,2,3-Trichlorobenzene	0.384	0.314	0.470	0.426	0.472	0.404	0.412	14.4
1,2-Dichloroethane-d4	0.808	0.810	0.868	0.981	1.276	0.870	0.936	19
Dibromofluoromethane	0.440	0.441	0.453	0.517	0.670	0.455	0.496	18.1
Toluene-d8	0.698	0.771	0.773	0.863	1.099	0.784	0.831	17
4-Bromofluorobenzene	0.191	0.192	0.213	0.237	0.311	0.210	0.226	19.8
1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	12.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Calibration Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN014803.D RRF005 = VN014804.D RRF020 = VN014805.D
RRF050 = VN014806.D RRF100 = VN014807.D RRF200 = VN014808.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.554	0.573	0.675	0.602	0.649	0.695	0.624	9.2
Chloromethane	0.808	0.622	0.747	0.648	0.710	0.790	0.721	10.4
Vinyl Chloride	0.495	0.451	0.559	0.514	0.572	0.615	0.534	11.1
Bromomethane	0.382	0.323	0.357	0.319	0.350	0.389	0.353	8.2
Chloroethane	0.388	0.356	0.392	0.356	0.388	0.418	0.383	6.2
Trichlorofluoromethane	0.823	0.808	0.863	0.775	0.837	0.890	0.833	4.9
1,1,2-Trichlorotrifluoroethane	0.465	0.507	0.502	0.445	0.466	0.501	0.481	5.3
1,1-Dichloroethene	0.453	0.399	0.456	0.406	0.455	0.494	0.444	8
Acetone	0.231	0.227	0.224	0.195	0.245	0.252	0.229	8.7
Carbon Disulfide	0.919	0.827	1.389	1.268	1.412	1.539	1.226	23.5
Methyl tert-butyl Ether	1.533	1.485	1.448	1.335	1.573	1.702	1.513	8.2
Methyl Acetate	0.633	0.811	0.771	0.731	0.890	0.984	0.803	15.3
Methylene Chloride	0.582	0.535	0.550	0.492	0.541	0.578	0.546	6
trans-1,2-Dichloroethene	0.459	0.425	0.475	0.430	0.481	0.523	0.466	7.8
1,1-Dichloroethane	1.105	1.022	1.009	0.922	1.027	1.107	1.032	6.7
Cyclohexane	1.968	1.045	1.050	0.934	1.010	1.086	1.182	32.9
2-Butanone	0.270	0.284	0.281	0.262	0.333	0.352	0.297	12.4
Carbon Tetrachloride	0.497	0.465	0.468	0.422	0.456	0.493	0.467	5.8
cis-1,2-Dichloroethene	0.544	0.556	0.551	0.500	0.560	0.606	0.553	6.2
Bromochloromethane	0.512	0.483	0.358	0.436	0.436	0.461	0.448	11.7
Chloroform	1.028	1.030	0.964	0.882	0.971	1.052	0.988	6.3
1,1,1-Trichloroethane	0.844	0.818	0.800	0.748	0.831	0.910	0.825	6.5
Methylcyclohexane	0.458	0.512	0.616	0.551	0.596	0.641	0.562	12.2
Benzene	1.323	1.343	1.433	1.285	1.387	1.484	1.376	5.4
1,2-Dichloroethane	0.543	0.520	0.547	0.478	0.512	0.548	0.525	5.2
Trichloroethene	0.339	0.323	0.352	0.315	0.339	0.369	0.339	5.7
1,2-Dichloropropane	0.407	0.401	0.404	0.359	0.387	0.417	0.396	5.2
Bromodichloromethane	0.512	0.495	0.479	0.433	0.481	0.524	0.488	6.5
4-Methyl-2-Pentanone	0.373	0.363	0.378	0.348	0.422	0.437	0.387	9
Toluene	0.782	0.788	0.838	0.768	0.831	0.898	0.818	5.9
t-1,3-Dichloropropene	0.374	0.439	0.454	0.423	0.511	0.565	0.461	14.7
cis-1,3-Dichloropropene	0.472	0.489	0.532	0.488	0.572	0.635	0.531	11.8
1,1,2-Trichloroethane	0.339	0.343	0.317	0.290	0.321	0.336	0.324	6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Calibration Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN014803.D RRF005 = VN014804.D RRF020 = VN014805.D
RRF050 = VN014806.D RRF100 = VN014807.D RRF200 = VN014808.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
2-Hexanone	0.203	0.229	0.241	0.224	0.280	0.288	0.244	13.6
Dibromochloromethane	0.361	0.367	0.359	0.322	0.368	0.392	0.362	6.2
1,2-Dibromoethane	0.269	0.296	0.306	0.283	0.325	0.343	0.304	8.9
Tetrachloroethene	0.346	0.350	0.348	0.315	0.337	0.355	0.342	4.2
Chlorobenzene	1.044	1.057	1.047	0.925	1.020	1.084	1.029	5.3
Ethyl Benzene	1.579	1.791	1.781	1.598	1.797	1.914	1.743	7.4
m/p-Xylenes	0.593	0.617	0.661	0.590	0.664	0.706	0.639	7.2
o-Xylene	0.608	0.645	0.665	0.597	0.664	0.706	0.647	6.3
Styrene	0.759	0.882	0.953	0.898	1.056	1.123	0.945	13.8
Bromoform	0.280	0.285	0.264	0.235	0.291	0.298	0.275	8.4
Isopropylbenzene	4.807	4.586	4.300	3.719	3.955	4.262	4.271	9.3
1,1,2,2-Tetrachloroethane	1.661	1.351	1.160	1.002	1.051	1.063	1.215	20.7
1,3-Dichlorobenzene	1.654	1.730	1.674	1.498	1.624	1.732	1.652	5.2
1,4-Dichlorobenzene	1.779	1.784	1.632	1.458	1.597	1.732	1.664	7.6
1,2-Dichlorobenzene	1.947	1.707	1.689	1.499	1.579	1.666	1.681	9
1,2-Dibromo-3-Chloropropane	0.166	0.171	0.155	0.144	0.174	0.199	0.168	11.1
1,2,4-Trichlorobenzene	0.433	0.410	0.610	0.633	0.856	1.019	0.660	36.1
1,2,3-Trichlorobenzene	0.441	0.380	0.621	0.608	0.841	0.981	0.646	35.7
1,2-Dichloroethane-d4	0.666	0.601	0.580	0.611	0.580	0.664	0.617	6.3
Dibromofluoromethane	0.351	0.299	0.291	0.296	0.276	0.312	0.304	8.5
Toluene-d8	1.000	0.953	1.050	1.089	1.021	1.162	1.046	7
4-Bromofluorobenzene	0.344	0.336	0.352	0.366	0.362	0.406	0.361	6.9
1,4-Dioxane	0.003	0.004	0.004	0.003	0.004	0.004	0.004	10.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_D Calibration Date/Time: 05/05/2014 09:48

Lab File ID: VD041662.D Init. Calib. Date(s): 05/01/2014 05/01/2014

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:36 12:24

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.022	1.048		2.54	20
Chloromethane	0.805	0.837	0.1	3.97	20
Vinyl Chloride	0.493	0.595		20.69	20
Bromomethane	0.296	0.252		-14.86	20
Chloroethane	0.580	0.579		-0.17	20
Trichlorofluoromethane	1.372	1.464		6.71	20
1,1,2-Trichlorotrifluoroethane	0.740	0.776		4.86	20
1,1-Dichloroethene	0.599	0.622		3.84	20
Acetone	0.232	0.218		-6.03	20
Carbon Disulfide	2.668	2.780		4.2	20
Methyl tert-butyl Ether	1.429	1.561		9.24	20
Methyl Acetate	1.168	1.126		-3.6	20
Methylene Chloride	0.813	0.780		-4.06	20
trans-1,2-Dichloroethene	0.678	0.733		8.11	20
1,1-Dichloroethane	1.715	1.661	0.1	-3.15	20
Cyclohexane	1.183	1.306		10.4	20
2-Butanone	0.326	0.299		-8.28	20
Carbon Tetrachloride	0.576	0.694		20.49	20
cis-1,2-Dichloroethene	0.690	0.766		11.01	20
Bromochloromethane	0.971	0.979		0.82	20
Chloroform	1.521	1.595		4.86	20
1,1,1-Trichloroethane	1.050	1.143		8.86	20
Methylcyclohexane	0.491	0.586		19.35	20
Benzene	1.725	1.893		9.74	20
1,2-Dichloroethane	0.758	0.807		6.46	20
Trichloroethene	0.322	0.362		12.42	20
1,2-Dichloropropane	0.500	0.571		14.2	20
Bromodichloromethane	0.552	0.659		19.38	20
4-Methyl-2-Pentanone	0.381	0.376		-1.31	20
Toluene	0.665	0.741		11.43	20
t-1,3-Dichloropropene	0.430	0.512		19.07	20
cis-1,3-Dichloropropene	0.567	0.675		19.05	20
1,1,2-Trichloroethane	0.206	0.223		8.25	20
2-Hexanone	0.225	0.246		9.33	20
Dibromochloromethane	0.242	0.285		17.77	20
1,2-Dibromoethane	0.198	0.212		7.07	20
Tetrachloroethene	0.368	0.407		10.6	20
Chlorobenzene	0.975	1.086	0.3	11.39	20
Ethyl Benzene	1.880	2.184		16.17	20
m/p-Xylenes	0.581	0.694		19.45	20
o-Xylene	0.519	0.589		13.49	20
Styrene	0.862	0.983		14.04	20

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_D Calibration Date/Time: 05/05/2014 09:48

Lab File ID: VD041662.D Init. Calib. Date(s): 05/01/2014 05/01/2014

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:36 12:24

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.160	0.215	0.1	34.38	20
Isopropylbenzene	3.897	4.267		9.49	20
1,1,2,2-Tetrachloroethane	0.958	1.093	0.3	14.09	20
1,3-Dichlorobenzene	1.469	1.604		9.19	20
1,4-Dichlorobenzene	1.465	1.692		15.49	20
1,2-Dichlorobenzene	1.273	1.381		8.48	20
1,2-Dibromo-3-Chloropropane	0.055	0.081		47.27	20
1,2,4-Trichlorobenzene	0.516	0.621		20.35	20
1,2,3-Trichlorobenzene	0.412	0.465		12.86	20
1,2-Dichloroethane-d4	0.936	1.358		45.08	20
Dibromofluoromethane	0.496	0.717		44.56	20
Toluene-d8	0.831	1.321		58.97	20
4-Bromofluorobenzene	0.226	0.363		60.62	20
1,4-Dioxane	0.002	0.002	0.05	0	50

All other compounds must meet a minimum RRF of 0.010.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date/Time: 05/06/2014 10:05

Lab File ID: VN015103.D Init. Calib. Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.624	0.677		8.49	20
Chloromethane	0.721	0.709	0.1	-1.66	20
Vinyl Chloride	0.534	0.597		11.8	20
Bromomethane	0.353	0.327		-7.36	20
Chloroethane	0.383	0.370		-3.39	20
Trichlorofluoromethane	0.833	0.916		9.96	20
1,1,2-Trichlorotrifluoroethane	0.481	0.514		6.86	20
1,1-Dichloroethene	0.444	0.444		0	20
Acetone	0.229	0.266		16.16	20
Carbon Disulfide	1.226	1.152		-6.04	20
Methyl tert-butyl Ether	1.513	1.465		-3.17	20
Methyl Acetate	0.803	0.918		14.32	20
Methylene Chloride	0.546	0.521		-4.58	20
trans-1,2-Dichloroethene	0.466	0.461		-1.07	20
1,1-Dichloroethane	1.032	1.001	0.1	-3	20
Cyclohexane	1.182	0.901		-23.77	20
2-Butanone	0.297	0.280		-5.72	20
Carbon Tetrachloride	0.467	0.533		14.13	20
cis-1,2-Dichloroethene	0.553	0.547		-1.09	20
Bromochloromethane	0.448	0.398		-11.16	20
Chloroform	0.988	1.000		1.22	20
1,1,1-Trichloroethane	0.825	0.887		7.51	20
Methylcyclohexane	0.562	0.567		0.89	20
Benzene	1.376	1.404		2.04	20
1,2-Dichloroethane	0.525	0.558		6.29	20
Trichloroethene	0.339	0.345		1.77	20
1,2-Dichloropropane	0.396	0.387		-2.27	20
Bromodichloromethane	0.488	0.530		8.61	20
4-Methyl-2-Pentanone	0.387	0.349		-9.82	20
Toluene	0.818	0.861		5.26	20
t-1,3-Dichloropropene	0.461	0.508		10.19	20
cis-1,3-Dichloropropene	0.531	0.573		7.91	20
1,1,2-Trichloroethane	0.324	0.325		0.31	20
2-Hexanone	0.244	0.242		-0.82	20
Dibromochloromethane	0.362	0.391		8.01	20
1,2-Dibromoethane	0.304	0.317		4.28	20
Tetrachloroethene	0.342	0.357		4.39	20
Chlorobenzene	1.029	1.066	0.3	3.6	20
Ethyl Benzene	1.743	1.893		8.61	20
m/p-Xylenes	0.639	0.685		7.2	20
o-Xylene	0.647	0.694		7.26	20
Styrene	0.945	1.113		17.78	20

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date/Time: 05/06/2014 10:05

Lab File ID: VN015103.D Init. Calib. Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.275	0.311	0.1	13.09	20
Isopropylbenzene	4.271	4.247		-0.56	20
1,1,2,2-Tetrachloroethane	1.215	1.043	0.3	-14.16	20
1,3-Dichlorobenzene	1.652	1.767		6.96	20
1,4-Dichlorobenzene	1.664	1.736		4.33	20
1,2-Dichlorobenzene	1.681	1.705		1.43	20
1,2-Dibromo-3-Chloropropane	0.168	0.157		-6.55	20
1,2,4-Trichlorobenzene	0.660	0.834		26.36	20
1,2,3-Trichlorobenzene	0.646	0.769		19.04	20
1,2-Dichloroethane-d4	0.617	0.599		-2.92	20
Dibromofluoromethane	0.304	0.302		-0.66	20
Toluene-d8	1.046	1.011		-3.35	20
4-Bromofluorobenzene	0.361	0.374		3.6	20
1,4-Dioxane	0.004	0.004	0.05	0	50

All other compounds must meet a minimum RRF of 0.010.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date/Time: 05/06/2014 22:34

Lab File ID: VN015126.D Init. Calib. Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.624	0.685		9.78	20
Chloromethane	0.721	0.662	0.1	-8.18	20
Vinyl Chloride	0.534	0.566		5.99	20
Bromomethane	0.353	0.353		0	20
Chloroethane	0.383	0.377		-1.57	20
Trichlorofluoromethane	0.833	0.965		15.85	20
1,1,2-Trichlorotrifluoroethane	0.481	0.521		8.32	20
1,1-Dichloroethene	0.444	0.450		1.35	20
Acetone	0.229	0.215		-6.11	20
Carbon Disulfide	1.226	1.138		-7.18	20
Methyl tert-butyl Ether	1.513	1.672		10.51	20
Methyl Acetate	0.803	1.210		50.69	20
Methylene Chloride	0.546	0.546		0	20
trans-1,2-Dichloroethene	0.466	0.463		-0.64	20
1,1-Dichloroethane	1.032	1.051	0.1	1.84	20
Cyclohexane	1.182	0.893		-24.45	20
2-Butanone	0.297	0.316		6.4	20
Carbon Tetrachloride	0.467	0.558		19.49	20
cis-1,2-Dichloroethene	0.553	0.568		2.71	20
Bromochloromethane	0.448	0.419		-6.47	20
Chloroform	0.988	1.071		8.4	20
1,1,1-Trichloroethane	0.825	0.940		13.94	20
Methylcyclohexane	0.562	0.533		-5.16	20
Benzene	1.376	1.436		4.36	20
1,2-Dichloroethane	0.525	0.613		16.76	20
Trichloroethene	0.339	0.353		4.13	20
1,2-Dichloropropane	0.396	0.401		1.26	20
Bromodichloromethane	0.488	0.560		14.75	20
4-Methyl-2-Pentanone	0.387	0.450		16.28	20
Toluene	0.818	0.871		6.48	20
t-1,3-Dichloropropene	0.461	0.514		11.5	20
cis-1,3-Dichloropropene	0.531	0.569		7.16	20
1,1,2-Trichloroethane	0.324	0.353		8.95	20
2-Hexanone	0.244	0.288		18.03	20
Dibromochloromethane	0.362	0.422		16.58	20
1,2-Dibromoethane	0.304	0.351		15.46	20
Tetrachloroethene	0.342	0.369		7.89	20
Chlorobenzene	1.029	1.083	0.3	5.25	20
Ethyl Benzene	1.743	1.911		9.64	20
m/p-Xylenes	0.639	0.678		6.1	20
o-Xylene	0.647	0.696		7.57	20
Styrene	0.945	1.137		20.32	20

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date/Time: 05/06/2014 22:34

Lab File ID: VN015126.D Init. Calib. Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.275	0.353	0.1	28.36	20
Isopropylbenzene	4.271	4.220		-1.19	20
1,1,2,2-Tetrachloroethane	1.215	1.192	0.3	-1.89	20
1,3-Dichlorobenzene	1.652	1.761		6.6	20
1,4-Dichlorobenzene	1.664	1.718		3.24	20
1,2-Dichlorobenzene	1.681	1.804		7.32	20
1,2-Dibromo-3-Chloropropane	0.168	0.208		23.81	20
1,2,4-Trichlorobenzene	0.660	0.890		34.85	20
1,2,3-Trichlorobenzene	0.646	0.878		35.91	20
1,2-Dichloroethane-d4	0.617	0.646		4.7	20
Dibromofluoromethane	0.304	0.305		0.33	20
Toluene-d8	1.046	1.007		-3.73	20
4-Bromofluorobenzene	0.361	0.386		6.93	20
1,4-Dioxane	0.004	0.005	0.05	25	50

All other compounds must meet a minimum RRF of 0.010.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date/Time: 05/07/2014 11:43

Lab File ID: VN015150.D Init. Calib. Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.624	0.724		16.03	20
Chloromethane	0.721	0.693	0.1	-3.88	20
Vinyl Chloride	0.534	0.591		10.67	20
Bromomethane	0.353	0.347		-1.7	20
Chloroethane	0.383	0.383		0	20
Trichlorofluoromethane	0.833	1.012		21.49	20
1,1,2-Trichlorotrifluoroethane	0.481	0.557		15.8	20
1,1-Dichloroethene	0.444	0.464		4.51	20
Acetone	0.229	0.257		12.23	20
Carbon Disulfide	1.226	1.175		-4.16	20
Methyl tert-butyl Ether	1.513	1.638		8.26	20
Methyl Acetate	0.803	1.295		61.27	20
Methylene Chloride	0.546	0.562		2.93	20
trans-1,2-Dichloroethene	0.466	0.485		4.08	20
1,1-Dichloroethane	1.032	1.062	0.1	2.91	20
Cyclohexane	1.182	0.922		-22	20
2-Butanone	0.297	0.300		1.01	20
Carbon Tetrachloride	0.467	0.599		28.27	20
cis-1,2-Dichloroethene	0.553	0.576		4.16	20
Bromochloromethane	0.448	0.372		-16.96	20
Chloroform	0.988	1.078		9.11	20
1,1,1-Trichloroethane	0.825	0.974		18.06	20
Methylcyclohexane	0.562	0.613		9.07	20
Benzene	1.376	1.533		11.41	20
1,2-Dichloroethane	0.525	0.645		22.86	20
Trichloroethene	0.339	0.386		13.86	20
1,2-Dichloropropane	0.396	0.418		5.56	20
Bromodichloromethane	0.488	0.591		21.11	20
4-Methyl-2-Pentanone	0.387	0.415		7.24	20
Toluene	0.818	0.939		14.79	20
t-1,3-Dichloropropene	0.461	0.572		24.08	20
cis-1,3-Dichloropropene	0.531	0.630		18.64	20
1,1,2-Trichloroethane	0.324	0.361		11.42	20
2-Hexanone	0.244	0.278		13.93	20
Dibromochloromethane	0.362	0.441		21.82	20
1,2-Dibromoethane	0.304	0.358		17.76	20
Tetrachloroethene	0.342	0.388		13.45	20
Chlorobenzene	1.029	1.135	0.3	10.3	20
Ethyl Benzene	1.743	2.034		16.69	20
m/p-Xylenes	0.639	0.736		15.18	20
o-Xylene	0.647	0.724		11.9	20
Styrene	0.945	1.193		26.24	20

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date/Time: 05/07/2014 11:43

Lab File ID: VN015150.D Init. Calib. Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.275	0.345	0.1	25.45	20
Isopropylbenzene	4.271	4.590		7.47	20
1,1,2,2-Tetrachloroethane	1.215	1.157	0.3	-4.77	20
1,3-Dichlorobenzene	1.652	1.919		16.16	20
1,4-Dichlorobenzene	1.664	1.919		15.32	20
1,2-Dichlorobenzene	1.681	1.893		12.61	20
1,2-Dibromo-3-Chloropropane	0.168	0.191		13.69	20
1,2,4-Trichlorobenzene	0.660	0.949		43.79	20
1,2,3-Trichlorobenzene	0.646	0.888		37.46	20
1,2-Dichloroethane-d4	0.617	0.607		-1.62	20
Dibromofluoromethane	0.304	0.306		0.66	20
Toluene-d8	1.046	1.006		-3.82	20
4-Bromofluorobenzene	0.361	0.398		10.25	20
1,4-Dioxane	0.004	0.004	0.05	0	50

All other compounds must meet a minimum RRF of 0.010.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date/Time: 05/08/2014 00:11

Lab File ID: VN015173.D Init. Calib. Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.624	0.727		16.51	20
Chloromethane	0.721	0.703	0.1	-2.5	20
Vinyl Chloride	0.534	0.615		15.17	20
Bromomethane	0.353	0.368		4.25	20
Chloroethane	0.383	0.413		7.83	20
Trichlorofluoromethane	0.833	1.074		28.93	20
1,1,2-Trichlorotrifluoroethane	0.481	0.553		14.97	20
1,1-Dichloroethene	0.444	0.489		10.14	20
Acetone	0.229	0.230		0.44	20
Carbon Disulfide	1.226	1.200		-2.12	20
Methyl tert-butyl Ether	1.513	1.861		23	20
Methyl Acetate	0.803	1.254		56.16	20
Methylene Chloride	0.546	0.598		9.52	20
trans-1,2-Dichloroethene	0.466	0.507		8.8	20
1,1-Dichloroethane	1.032	1.143	0.1	10.76	20
Cyclohexane	1.182	0.945		-20.05	20
2-Butanone	0.297	0.332		11.78	20
Carbon Tetrachloride	0.467	0.624		33.62	20
cis-1,2-Dichloroethene	0.553	0.634		14.65	20
Bromochloromethane	0.448	0.406		-9.38	20
Chloroform	0.988	1.190		20.44	20
1,1,1-Trichloroethane	0.825	1.085		31.51	20
Methylcyclohexane	0.562	0.561		-0.18	20
Benzene	1.376	1.575		14.46	20
1,2-Dichloroethane	0.525	0.686		30.67	20
Trichloroethene	0.339	0.396		16.81	20
1,2-Dichloropropane	0.396	0.437		10.35	20
Bromodichloromethane	0.488	0.619		26.84	20
4-Methyl-2-Pentanone	0.387	0.482		24.55	20
Toluene	0.818	0.950		16.14	20
t-1,3-Dichloropropene	0.461	0.570		23.64	20
cis-1,3-Dichloropropene	0.531	0.636		19.77	20
1,1,2-Trichloroethane	0.324	0.390		20.37	20
2-Hexanone	0.244	0.308		26.23	20
Dibromochloromethane	0.362	0.472		30.39	20
1,2-Dibromoethane	0.304	0.381		25.33	20
Tetrachloroethene	0.342	0.402		17.54	20
Chlorobenzene	1.029	1.179	0.3	14.58	20
Ethyl Benzene	1.743	2.092		20.02	20
m/p-Xylenes	0.639	0.758		18.62	20
o-Xylene	0.647	0.753		16.38	20
Styrene	0.945	1.246		31.85	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date/Time: 05/08/2014 00:11

Lab File ID: VN015173.D Init. Calib. Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.275	0.383	0.1	39.27	20
Isopropylbenzene	4.271	4.648		8.83	20
1,1,2,2-Tetrachloroethane	1.215	1.304	0.3	7.32	20
1,3-Dichlorobenzene	1.652	1.923		16.4	20
1,4-Dichlorobenzene	1.664	1.890		13.58	20
1,2-Dichlorobenzene	1.681	1.961		16.66	20
1,2-Dibromo-3-Chloropropane	0.168	0.224		33.33	20
1,2,4-Trichlorobenzene	0.660	0.979		48.33	20
1,2,3-Trichlorobenzene	0.646	0.943		45.97	20
1,2-Dichloroethane-d4	0.617	0.736		19.29	20
Dibromofluoromethane	0.304	0.350		15.13	20
Toluene-d8	1.046	1.114		6.5	20
4-Bromofluorobenzene	0.361	0.430		19.11	20
1,4-Dioxane	0.004	0.005	0.05	25	50

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date/Time: 05/08/2014 13:24

Lab File ID: VN015196.D Init. Calib. Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.624	0.675		8.17	20
Chloromethane	0.721	0.621	0.1	-13.87	20
Vinyl Chloride	0.534	0.561		5.06	20
Bromomethane	0.353	0.342		-3.12	20
Chloroethane	0.383	0.373		-2.61	20
Trichlorofluoromethane	0.833	1.004		20.53	20
1,1,2-Trichlorotrifluoroethane	0.481	0.536		11.44	20
1,1-Dichloroethene	0.444	0.461		3.83	20
Acetone	0.229	0.269		17.47	20
Carbon Disulfide	1.226	1.078		-12.07	20
Methyl tert-butyl Ether	1.513	1.703		12.56	20
Methyl Acetate	0.803	1.100		36.99	20
Methylene Chloride	0.546	0.535		-2.02	20
trans-1,2-Dichloroethene	0.466	0.462		-0.86	20
1,1-Dichloroethane	1.032	1.056	0.1	2.33	20
Cyclohexane	1.182	0.874		-26.06	20
2-Butanone	0.297	0.317		6.73	20
Carbon Tetrachloride	0.467	0.597		27.84	20
cis-1,2-Dichloroethene	0.553	0.571		3.26	20
Bromochloromethane	0.448	0.390		-12.95	20
Chloroform	0.988	1.093		10.63	20
1,1,1-Trichloroethane	0.825	0.982		19.03	20
Methylcyclohexane	0.562	0.583		3.74	20
Benzene	1.376	1.492		8.43	20
1,2-Dichloroethane	0.525	0.642		22.29	20
Trichloroethene	0.339	0.379		11.8	20
1,2-Dichloropropane	0.396	0.414		4.55	20
Bromodichloromethane	0.488	0.590		20.9	20
4-Methyl-2-Pentanone	0.387	0.438		13.18	20
Toluene	0.818	0.923		12.84	20
t-1,3-Dichloropropene	0.461	0.574		24.51	20
cis-1,3-Dichloropropene	0.531	0.623		17.33	20
1,1,2-Trichloroethane	0.324	0.359		10.8	20
2-Hexanone	0.244	0.297		21.72	20
Dibromochloromethane	0.362	0.445		22.93	20
1,2-Dibromoethane	0.304	0.359		18.09	20
Tetrachloroethene	0.342	0.377		10.23	20
Chlorobenzene	1.029	1.133	0.3	10.11	20
Ethyl Benzene	1.743	2.020		15.89	20
m/p-Xylenes	0.639	0.728		13.93	20
o-Xylene	0.647	0.726		12.21	20
Styrene	0.945	1.187		25.61	20

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date/Time: 05/08/2014 13:24

Lab File ID: VN015196.D Init. Calib. Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.275	0.364	0.1	32.36	20
Isopropylbenzene	4.271	4.421		3.51	20
1,1,2,2-Tetrachloroethane	1.215	1.155	0.3	-4.94	20
1,3-Dichlorobenzene	1.652	1.862		12.71	20
1,4-Dichlorobenzene	1.664	1.821		9.44	20
1,2-Dichlorobenzene	1.681	1.857		10.47	20
1,2-Dibromo-3-Chloropropane	0.168	0.200		19.05	20
1,2,4-Trichlorobenzene	0.660	0.993		50.46	20
1,2,3-Trichlorobenzene	0.646	0.940		45.51	20
1,2-Dichloroethane-d4	0.617	0.641		3.89	20
Dibromofluoromethane	0.304	0.316		3.95	20
Toluene-d8	1.046	1.018		-2.68	20
4-Bromofluorobenzene	0.361	0.405		12.19	20
1,4-Dioxane	0.004	0.005	0.05	25	50

All other compounds must meet a minimum RRF of 0.010.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date/Time: 05/09/2014 01:39

Lab File ID: VN015217.D Init. Calib. Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.624	0.676		8.33	20
Chloromethane	0.721	0.665	0.1	-7.77	20
Vinyl Chloride	0.534	0.597		11.8	20
Bromomethane	0.353	0.355		0.57	20
Chloroethane	0.383	0.390		1.83	20
Trichlorofluoromethane	0.833	1.029		23.53	20
1,1,2-Trichlorotrifluoroethane	0.481	0.526		9.36	20
1,1-Dichloroethene	0.444	0.469		5.63	20
Acetone	0.229	0.206		-10.04	20
Carbon Disulfide	1.226	1.085		-11.5	20
Methyl tert-butyl Ether	1.513	1.769		16.92	20
Methyl Acetate	0.803	1.133		41.1	20
Methylene Chloride	0.546	0.570		4.4	20
trans-1,2-Dichloroethene	0.466	0.483		3.65	20
1,1-Dichloroethane	1.032	1.115	0.1	8.04	20
Cyclohexane	1.182	0.890		-24.7	20
2-Butanone	0.297	0.294		-1.01	20
Carbon Tetrachloride	0.467	0.598		28.05	20
cis-1,2-Dichloroethene	0.553	0.603		9.04	20
Bromochloromethane	0.448	0.403		-10.05	20
Chloroform	0.988	1.169		18.32	20
1,1,1-Trichloroethane	0.825	1.037		25.7	20
Methylcyclohexane	0.562	0.557		-0.89	20
Benzene	1.376	1.531		11.27	20
1,2-Dichloroethane	0.525	0.659		25.52	20
Trichloroethene	0.339	0.382		12.68	20
1,2-Dichloropropane	0.396	0.423		6.82	20
Bromodichloromethane	0.488	0.596		22.13	20
4-Methyl-2-Pentanone	0.387	0.429		10.85	20
Toluene	0.818	0.931		13.81	20
t-1,3-Dichloropropene	0.461	0.542		17.57	20
cis-1,3-Dichloropropene	0.531	0.617		16.2	20
1,1,2-Trichloroethane	0.324	0.376		16.05	20
2-Hexanone	0.244	0.274		12.3	20
Dibromochloromethane	0.362	0.453		25.14	20
1,2-Dibromoethane	0.304	0.363		19.41	20
Tetrachloroethene	0.342	0.386		12.86	20
Chlorobenzene	1.029	1.134	0.3	10.2	20
Ethyl Benzene	1.743	2.012		15.43	20
m/p-Xylenes	0.639	0.729		14.09	20
o-Xylene	0.647	0.731		12.98	20
Styrene	0.945	1.185		25.4	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CTMA01

Lab Code: CHEM Case No.: F2206 SAS No.: F2206 SDG No.: F2206

Instrument ID: MSVOA_N Calibration Date/Time: 05/09/2014 01:39

Lab File ID: VN015217.D Init. Calib. Date(s): 04/23/2014 04/23/2014

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 15:21

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.275	0.362	0.1	31.64	20
Isopropylbenzene	4.271	4.506		5.5	20
1,1,2,2-Tetrachloroethane	1.215	1.179	0.3	-2.96	20
1,3-Dichlorobenzene	1.652	1.884		14.04	20
1,4-Dichlorobenzene	1.664	1.849		11.12	20
1,2-Dichlorobenzene	1.681	1.877		11.66	20
1,2-Dibromo-3-Chloropropane	0.168	0.195		16.07	20
1,2,4-Trichlorobenzene	0.660	0.927		40.46	20
1,2,3-Trichlorobenzene	0.646	0.901		39.47	20
1,2-Dichloroethane-d4	0.617	0.694		12.48	20
Dibromofluoromethane	0.304	0.333		9.54	20
Toluene-d8	1.046	1.053		0.67	20
4-Bromofluorobenzene	0.361	0.416		15.23	20
1,4-Dioxane	0.004	0.004	0.05	0	50

All other compounds must meet a minimum RRF of 0.010.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. F2206
COC Number 028972

4.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: CT Male Associates
ADDRESS: 50 Century Hill Dr
CITY: Latham STATE: NY ZIP: 12110
ATTENTION: Kirk Moline
PHONE: 518-786-7400 FAX: 518-786-7299

CLIENT PROJECT INFORMATION

PROJECT NAME: Old Champlain Mill BCP
PROJECT NO.: 06.6448 LOCATION: Whitehall, NY
PROJECT MANAGER: Kirk Moline
e-mail: K.moline@ctmale.com
PHONE: SAME FAX: SAME

CLIENT BILLING INFORMATION

BILL TO: SAME AS REPORT PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: 10 DAYS *
EDD: _____ DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☐ EDD Format: _____
☒ Others NYSDEC Part 375 Cat B

ANALYSIS

TCL VOC

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A/E 1	2	3	4	5	6	7	8	9	COMMENTS
1.	BMW-15A	GW		X	5/1/14	1530	2	X									
2.	FD050114	GW		X	5/1/14	1500	2	X									
3.	Transport Blank	—			4/29/14	—	2	X									
4.	MW-3A	GW		X	5/1/14	1600	2	X									
5.	EB050114	—		X	5/1/14	1610	2	X									
6.	MW-4A	GW		X	5/1/14	1630	6	X									MS/MSD
7.	MW-5A	GW		X	5/1/14	1650	2	X									
8.	BMW-13A	GW		X	5/2/14	0730	2	X									
9.	BMW-12A	GW		X	5/2/14	0750	2	X									
10.	BMW-16A	GW		X	5/2/14	0810	2	X									

PRESERVATIVES: ← Specify Preservatives
A – HCl B – HNO_3 C – H_2SO_4 D – NaOH E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	1755 5/1/14	1.
RELINQUISHED BY: 2. UPS	DATE/TIME: 5/2/14 9:55	RECEIVED BY: 2. Monitoring Chemical
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☑ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 5°C
Ice in Cooler?: Yes

Page 1 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. F2206
QUOTE NO.
COC Number 028970

4.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: CT Male Associates
ADDRESS: 50 Century Hill Dr
CITY: Latham STATE: NY ZIP: 12110
ATTENTION: Kirk Moline
PHONE: 518-786-7400 FAX: 518-786-7400

CLIENT PROJECT INFORMATION

PROJECT NAME: Old Champlain Mill BCP Site
PROJECT NO.: 06.6448 LOCATION: Whitehall, NY
PROJECT MANAGER: Kirk Moline
e-mail: K.moline@ctmale.com
PHONE: SAME FAX: SAME

CLIENT BILLING INFORMATION

BILL TO: SAME AS REPORT PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: 10 DAYS *
EDD: _____ DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☐ EDD Format: _____
☒ Others NYS DEC ASP Category B

ANALYSIS

1	2	3	4	5	6	7	8	9
TCL VOC	TCL VOC							

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A/E 1	F/E 2	3	4	5	6	7	8	9	COMMENTS
1.	BMW-11A	GW		X	5/2/14	0925	2	X									
2.	MW-8A			X		0845	2	X									
3.	BMW-14A			X		0950	2	X									
4.	BMW-18A			X		1030	2	X									
5.	BMW-19A			X		1100	2	X									
6.	BMW-10A			X		1125	2	X									
7.	MW-2A			X		1150	2	X									
8.	MW-1A	↓		X	↓	1220	2	X									
9.	BMW-17A	GW		X	5/2/14	1245	2	X									
10.	Anomaly-1 (3')	S		X	5/2/14	1615	4		X								

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	1755 5/2/14	1.
RELINQUISHED BY: 2. UPS	DATE/TIME: 5/3/14 9:55	RECEIVED BY: 2. Front Desk Chemtech
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 5°C
Ice in Cooler?: Yes

Page 2 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO



Amt paid
5/31/14
9:55

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

TERRA Lone 5/5

Order ID:	F2206 CTMA01	**Order Date:**	5/5/2014	**Project Mgr:**	Wolski
Client Name:	C.T. Male Associates, P.C.,	**Project Name:**	Old Champlain Mill Property	**Report Type:**	Level 4
Client Contact:	Kirk Moline	**Rec DateTime**	5/3/2014 9:55:00 AM	**EDD:**	Equis_EQNYDEC/Excel
Invoice Name:	C.T. Male Associates, P.C.,	**Purchase Order:**	06.6448	**Hard Copy Date:**	
Invoice Contact	Kirk Moline	**Login Tech:**	chris	**Date Signoff:**	5/5/2014 10:14:41 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
F2206-01	BMW-11A	Water	5/2/2014	9:25	2	VOC-TCLVOA-10		8260-Low		10 Bus.	5/16/2014 5/16/20
F2206-02	MW-8A	Water	5/2/2014	8:45	2	VOC-TCLVOA-10		8260-Low		10 Bus.	5/16/2014 5/16/20
F2206-03	BMW-14A	Water	5/2/2014	9:50	2	VOC-TCLVOA-10		8260-Low		10 Bus.	5/16/2014 5/16/20
F2206-04	BMW-18A	Water	5/2/2014	10:30	2	VOC-TCLVOA-10		8260-Low		10 Bus.	5/16/2014 5/16/20
F2206-05	BMW-19A	Water	5/2/2014	11:00	2	VOC-TCLVOA-10		8260-Low		10 Bus.	5/16/2014 5/16/20
F2206-06	MW-10A	Water	5/2/2014	11:25	2	VOC-TCLVOA-10		8260-Low		10 Bus.	5/16/2014 5/16/20
F2206-07	MW-2A	Water	5/2/2014	11:50	2	VOC-TCLVOA-10		8260-Low		10 Bus.	5/16/2014 5/16/20
F2206-08	MW-1A	Water	5/2/2014	12:20	2	VOC-TCLVOA-10		8260-Low		10 Bus.	5/16/2014 5/16/20
F2206-09	BMW-17A	Water	5/2/2014	12:45	2	VOC-TCLVOA-10		8260-Low		10 Bus.	5/16/2014 5/16/20
F2206-10	ANOMALY-1(3)	Solid	5/2/2014	16:15	4	VOC-TCLVOA-10		8260C	A 41.41 − 35.19 = 6.22 B 41.47 − 35.23 = 6.24 C 39.20 − 33.12 = 6.08	10 Bus.	5/16/2014 5/16/20
F2206-11	BMW-15A	Water	5/1/2014	15:30	2	VOC-TCLVOA-10		8260-Low		10 Bus.	5/15/2014 5/15/20

LOGIN REPORT/SAMPLE TRANSFER

Order ID:	F2206 CTMA01	**Order Date:**	5/5/2014	**Project Mgr:**	Wolski
Client Name:	C.T. Male Associates, P.C.,	**Project Name:**	Old Champlain Mill Property	**Report Type:**	Level 4
Client Contact:	Kirk Moline	**Rec DateTime**	5/3/2014 9:55:00 AM	**EDD:**	Equis_EQNYDEC/Excel
Invoice Name:	C.T. Male Associates, P.C.,	**Purchase Order:**	06.6448	**Hard Copy Date:**	
Invoice Contact	Kirk Moline	**Login Tech:**	chris	**Date Signoff:**	5/5/2014 10:14:41 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
F2206-12	FD050114	Water	5/1/2014	15:00	2	VOC-TCLVOA-10		8260-Low		10 Bus. 5/15/2014	5/15/20
F2206-13	TRIPBLANK	Water	4/29/2014	0:00	2	VOC-TCLVOA-10		8260-Low	TRANSPORT BLANK IS THE SAME THING AS TRIPBLANK	10 Bus. 5/13/2014	5/13/20
F2206-14	MW-3A	Water	5/1/2014	16:00	2	VOC-TCLVOA-10		8260-Low		10 Bus. 5/15/2014	5/15/20
F2206-15	EB050114	Water	5/1/2014	16:10	2	VOC-TCLVOA-10		8260-Low		10 Bus. 5/15/2014	5/15/20
F2206-16	MW-4A	Water	5/1/2014	16:30	2	VOC-TCLVOA-10		8260-Low		10 Bus. 5/15/2014	5/15/20
F2206-17	F2206-16MS	Water	5/1/2014	16:30	2	VOC-TCLVOA-10		8260-Low		10 Bus. 5/15/2014	5/15/20
F2206-18	F2206-16MSD	Water	5/1/2014	16:30	2	VOC-TCLVOA-10		8260-Low		10 Bus. 5/15/2014	5/15/20
F2206-19	BMW-5A	Water	5/1/2014	16:50	2	VOC-TCLVOA-10		8260-Low		10 Bus. 5/15/2014	5/15/20
F2206-20	BMW-13A	Water	5/2/2014	7:30	2	VOC-TCLVOA-10		8260-Low		10 Bus. 5/16/2014	5/16/20

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID:	F2206 CTMA01	**Order Date:**	5/5/2014	**Project Mgr:**	Wolski
Client Name:	C.T. Male Associates, P.C.,	**Project Name:**	Old Champlain Mill Property	**Report Type:**	Level 4
Client Contact:	Kirk Moline	**Rec DateTime**	5/3/2014 9:55:00 AM	**EDD:**	Equis_EQNYDEC/Excel
Invoice Name:	C.T. Male Associates, P.C.,	**Purchase Order:**	06.6448	**Hard Copy Date:**	
Invoice Contact	Kirk Moline	**Login Tech:**	chris	**Date Signoff:**	5/5/2014 10:14:41 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
F2206-21	BMW-12A	Water	5/2/2014	7:50	2						
						VOC-TCLVOA-10		8260-Low		10 Bus.	5/16/2014 5/16/20
F2206-22	BMW-16A	Water	5/2/2014	8:10	2						
						VOC-TCLVOA-10		8260-Low		10 Bus.	5/16/2014 5/16/20

SAMPLE CONDITION RECORD

Are samples submitted with a chain of custody?	Yes
Are the number of samples the same as stated on the chain of custody?	Yes
Are bottle caps tight and securely in place?	Yes
Were all containers intact when received?	Yes
Were samples submitted in an ice chest?	Yes
Were samples received cold?	Yes
Were samples within the holding time for the requested test(s)?	Yes
Is the volume of sample submitted sufficient for the requested test(s)?	Yes
Are all samples for volatile organic analyses free of headspace?	Yes

ORDER COMMENT

client used own terracore. Treat EQUIS as NYDEC V3. Report to LOD like the past and include NY forms.

Relinquished By: CW

Date / Time: 5-5-14 10:15 am

Received By: PP

Date / Time: 05/05/14

Storage Area: VOA Refridgerator Room

EXHIBIT 4

DEC BCP SIGNIFICANT THREAT DETERMINATION REPORT

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
BCP Significant Threat Determination Report

6/28/2011

Site Code C558036 **Site Name** Old Champlain Mill
City Whitehall **Town** Whitehall
Region 5 **County** Washington
Current Classification A
Estimated Size 11.4900 **Allowable Use** Commercial
Significant Threat: Yes **Project Manager** Alicia Thorne

Summary of Approvals

Originator/Supervisor: Russell Huyck **05/02/2011**

Regional Hazardous Waste Remedial Engineer: Russell Huyck: **05/02/2011**

BEEI of NYSDOH: **06/23/2011**

CO Bureau Director: James Harrington, Director, Region 5: **06/01/2011**

Assistant Division Director: Robert Schick: **06/23/2011**

Site Description

Location: This Brownfield Cleanup Program (BCP)site is +/- 11.49 acres, located in a commercial area at 16-50 Poultney Street in the Village of Whitehall, Washington County. The site is bounded by Wood Creek to the East, the Champlain Canal to the West, and Poultney Street (NYS RT. 4) to the North.

Site Features: The site is currently vacant and predominant features include a concrete slab foundation from the former manufacturing building, a brick smoke stack, and a small municipally owned and maintained sewage pump station. The majority of the site is open with some trees found predominantly within the northwestern sections of the site, and wetlands in the northwestern and southeastern portions of the property. Manmade earthen dikes line the eastern and western property boundaries and serve to protect the site from flooding from the adjacent Wood Creek and Champlain Canal respectively.

Site hydrogeology: Site geology consists of fill material, underlain by alluvial sediments (sands, silts and clays). Depth to groundwater is approximately 4 feet below grade, and generally flows to the North, East and West.

Historical Uses: The site was first developed in the early 1900s and used as a silk knitting mill until 1959. From 1959 until 2001 the site was used to manufacture newspaper vending machines. The on-site buildings, including a 120,000 square foot manufacturing building and a 5,000 square foot power house, were demolished in 2003.

6/28/2011

Site Code C558036 **Site Name** Old Champlain Mill

A brownfield Cleanup Agreement was signed in 2008, and a Remedial Investigation began January 2010 and is currently underway.

Contaminants of Concern (Including Materials Disposed)	Quantity Disposed
OU 01	
ZINC	UNKNOWN
BENZ(A)ANTHRACENE	UNKNOWN
BENZO(A)PYRENE	UNKNOWN
BENZO(B)FLUORANTHENE	UNKNOWN
DIBENZ[A,H]ANTHRACENE	UNKNOWN
indeno(1,2,3-cd)pyrene	UNKNOWN
ARSENIC	UNKNOWN
TRICHLOROETHENE (TCE)	UNKNOWN
VINYL CHLORIDE	UNKNOWN
MANGANESE	UNKNOWN
ACETONE	UNKNOWN
ETHENE, TRANS- 1,2-DICHLORO-	UNKNOWN
ETHENE, 1,2, Cis-Dichloro	UNKNOWN

Analytical Data Available for : Groundwater, Soil

Applicable Standards Exceeded for: Groundwater, Soil

Site Environmental Assessment

This section summarizes the assessment of existing and potential future environmental impacts presented by this site. Environmental impacts may include existing and potential future exposure pathways to fish and wildlife receptors, wetlands, and groundwater resources. The RI report presents a detailed discussion of the existing and potential impacts from the site to fish and wildlife receptors.

Nature and Extent of Contamination:
Previous uses of the site as a knitting mill and a vending machine manufacturer have resulted in contamination in the site's soil and groundwater.

Groundwater:
The primary groundwater contaminants of concern at the site include volatile organic compounds (VOCs) including trichloroethene (TCE) and its breakdown products of 1,1 dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride. While TCE contaminant concentrations range from 5.5 to 69 parts per billion (ppb), the breakdown product contaminant detection concentrations were more prevalent and at much more significant concentrations ranging from 6 to 6,600 ppb of cis-1,2-dichloroethene, 5.2 to 35 ppb for trans-1,2-dichloroethene, and 2.1 to 1,800 ppb for vinyl chloride. The groundwater plume appears to be concentrated in the northwestern portion of the site in the general vicinity of monitoring well BMW-19A. Two semi-volatile organic compounds (SVOCs) benzo(a)pyrene at 0.17 ppb and indeno(1,2,3-cd)pyrene at 0.73 ppb were detected slightly above their respective standards, criteria and guidance (SCG) values in one sampling

location. There were several detections of metals contamination in the groundwater, with iron and manganese being the most prevalent.

Soil:
Low level semi-volatile organic compounds (SVOCs) benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(b)fluoranthene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene were detected in the site's shallow soil (0 – 2 inches) above the soil cleanup objectives (SCOs) for commercial use at 20 parts per million (ppm), 5.6 ppm, 1.6 to 16 ppm, 19 ppm, 2.5 ppm and 9.4 ppm respectively. All the of these compounds were collocated with the exception of the other two detections of benzo(a)pyrene. Low level SVOC contamination (benzo(a)anthracene at 8 ppm, benzo(a)pyrene at 3.3 to 6.9 ppm and benzo(b)fluoranthene at 7.7 ppm) was detected in the subsurface soil in addition to two detections of arsenic contamination at 17.3 ppm and 29.7 ppm.

Based on the Fish and Wildlife Resource Characterization, there were no unique or unusual habitats identified, no endangered or threatened species were observed to exist at the site and no sensitive ecological resources were observed within the site. Although the Champlain Canal and Wood Creek are adjacent to the site, the manmade dikes prevent any direct surface runoff. Therefore no complete exposure pathways were identified.

Site Health Assessment

The site is not fenced and persons who enter the site could contact contaminants in the soil by walking on the soil, digging or otherwise disturbing the soil. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Because there is no on-site building, inhalation of site contaminants in indoor air due to soil vapor intrusion does not represent a concern for the site in its current condition. However, the potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site development.

Remedy Description and Cost

Remedy Description for Operable Unit 01

Total Cost

Basis for Significant Threat Determination

Although no VOC soil source was identified during the RI, an on-site groundwater plume consisting mostly of TCE breakdown products with levels as high as 6,600 ppm of cis-1,2-dichloroethene, and

6/28/2011

Site Code C558036 **Site Name** Old Champlain Mill

1,800 ppm of vinyl chloride appears to be partially migrating off-site towards NYS land. Although the site is currently undeveloped, the shallow VOC groundwater contamination causes potential vapor intrusion concerns should the site be developed in the future. To a lesser extent, the SVOC and arsenic soil contamination presents a potential concern of dermal contact or inhalation should the site be developed in the future. Due to the high concentration of VOC groundwater contamination, the site presents a significant threat to human health and the environment.

SIGNIFICANT THREAT DETERMINATION WORKSHEET

□ State Superfund Program
6 NYCRR 375-2.7

✓ Brownfield Cleanup Program
ECL 27-1411.1(c)

Site Name: _____Old Champlain Mill_____ Site ID No. ___C558036_____

City/Town: _____Town of Whitehall_____ County: ____Washington_____

1. Has all available and relevant evidence regarding the Site been reviewed and the factors in 375-2.7(a)(3) considered?	✓ Yes (go to 2)	□ No (stop)	□ Unsure (stop)
2. Does Site contamination result in significant adverse impacts (375-2.7(a)(1)) to:			
a. species that are endangered, threatened, or of concern?	□ Yes (go to b)	✓ No (go to b)	□ Unsure (go to b)
b. protected streams, tidal/freshwater wetlands, or significant fish and wildlife habitat?	□ Yes (go to c)	✓ No (go to c)	□ Unsure (go to c)
c. flora or fauna from bioaccumulation or leads to a recommendation to limit consumption?	□ Yes (go to d)	✓ No (go to d)	□ Unsure (go to d)
d. fish, shellfish, crustacea, or wildlife from concentrations that cause adverse/chronic effects?	□ Yes (go to e)	✓ No (go to e)	□ Unsure (go to e)
e. the environment due to a fire, spill, explosion, or reaction that generates toxic gases, vapors, fumes, mists or dusts?	□ Yes (go to f)	✓ No (go to f)	□ Unsure (go to f)
f. areas where individuals or water supplies may be present and NYSDOH has determined there to be a significantly increased risk to public health (including from soil vapor)?	✓ Yes (go to 3)	□ No (go to 3)	□ Unsure (go to 3)
3. Does Site contamination result in significant environmental damage (375-2.7(a)(2))?	✓ Yes (go to 4)	□ No (go to 4)	□ Unsure (stop)
4. If any box in items 2 or 3 have been checked "Yes," the site presents a significant threat to public health or the environment; check here.	Significant threat to: ✓ Public Health ✓ Environment		
5. If no boxes in items 2 or 3 have been checked "Yes," the site does not present a significant threat to public health or the environment; check here.	□ Not a Significant Threat		

_____Alicia Thorne, EE2_____ _____*Alicia Thorne*_____ _6/1/11_____
Project Manager Name/Title (Print) Project Manager Name (Signature) Date

_Jim Harrington, Director, Bureau A_____ _____ _____
Bureau Director/RHWRE Name/Title (Print) Bureau Director/RHWRE Name (Signature) Date

STATE OF NEW YORK
DEPARTMENT OF HEALTH

Flanigan Square 547 River Street Troy, New York 12180-2216
www.health.ny.gov

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

June 23, 2011

Mr. Russell Huyck
NYS Department of Environmental Conservation
P.O. Box 296
1115 State Route 86
Ray Brook, NY 12977-0296

Re: **Significant Threat Determination**
Old Champlain Mill
Site# C558036
Whitehall, Washington County

Dear Mr. Huyck:

New York State Department (NYS) of Health staff have reviewed the data in the NYS Department of Environmental Conservation's Brownfield Cleanup Program Signification Threat Determination Report for the Old Champlain Mill site in Whitehall, Washington County. Groundwater at the site is contaminated with volatile organic compounds (VOCs), including levels of cis-1,2-dichloroethene up to 6,600 parts per billion (ppb) and vinyl chloride up to 1,800 ppb. Elevated levels of semi-volatile organic compounds and arsenic were also detected in surface soil. The site is currently undeveloped, however, the shallow VOC contamination in groundwater poses a concern for soil vapor intrusion if the site is developed in the future. Persons who enter the site could also contact contaminants in surface soil.

Based on this information, the Old Champlain Mill site poses a significant threat to public health. If you have any questions, please contact me at 518-402-7860

Sincerely,

Richard Fedigan

Richard Fedigan
Section Chief, North Region
Bureau of Environmental Exposure
Investigation

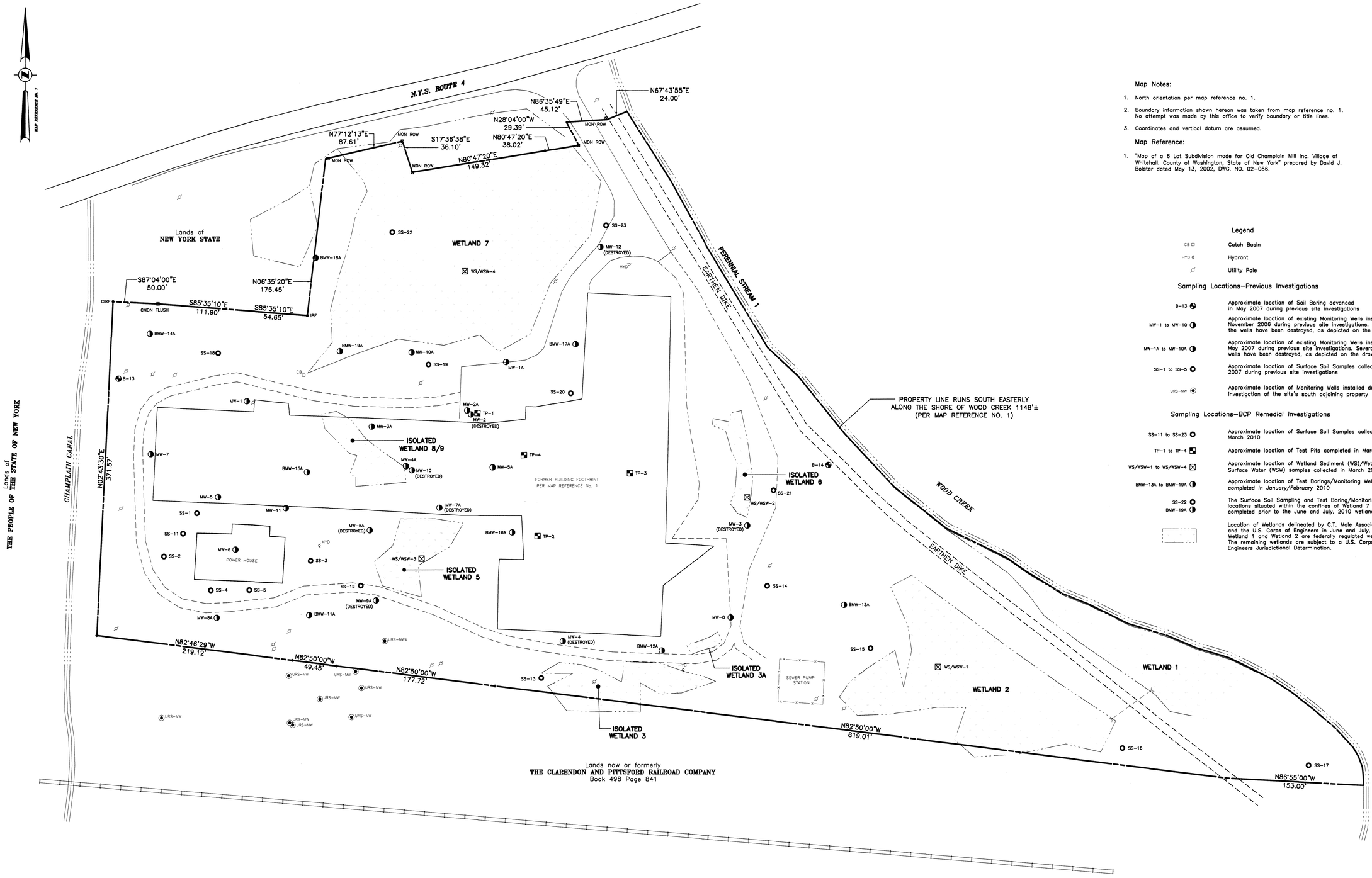
ec: S. Bates/K. Anders/File
J. Harrington – DEC Albany
A. Thorne – DEC Warrensburg
A. Gabalski – DOH GFDO

P:\Bureau\Sites\Region_5\WASHINGTON\C558036\C558036_SigThreat_061611.doc

XREFS: NONE

PROJECT NUMBER: 06.6448

CAD DWG. FILE NAME: FIGURE-2.DWG



Map Notes:

1. North orientation per map reference no. 1.
2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
3. Coordinates and vertical datum are assumed.

Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall, County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

CB □	Catch Basin
HYD ◁	Hydrant
∅	Utility Pole

Sampling Locations–Previous Investigations

B-13	Approximate location of Soil Boring advanced in May 2007 during previous site investigations
MW-1 to MW-10	Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
MW-1A to MW-10A	Approximate location of existing Monitoring Wells installed in May 2007 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
SS-1 to SS-5	Approximate location of Surface Soil Samples collected in 2007 during previous site investigations
URS-MW	Approximate location of Monitoring Wells installed during the investigation of the site's south adjoining property

Sampling Locations–BCP Remedial Investigations

SS-11 to SS-23	Approximate location of Surface Soil Samples collected in March 2010
TP-1 to TP-4	Approximate location of Test Pits completed in March 2010
WS/WSW-1 to WS/WSW-4	Approximate location of Wetland Sediment (WS)/Wetland Surface Water (WSW) samples collected in March 2010
BMW-13A to BMW-19A	Approximate location of Test Borings/Monitoring Wells completed in January/February 2010
SS-22 / BMW-19A	The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation
	Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

"ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES, P.C. OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY".

DATE		REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
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	6				
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	9				

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APPROVED:
DRAFTED : S.WUNSCH
CHECKED : S.BEIBER
PROJ. NO: 06.6448
SCALE : 1"=50'
DATE : OCT. 25, 2010

FIGURE-2
SITE PLAN

OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

C.T. MALE ASSOCIATES, P.C.
50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110
518.786.7400 • FAX 518.786.7299
ARCHITECTURE & BUILDING SYSTEMS ENGINEERING • CIVIL ENGINEERING
ENVIRONMENTAL SERVICES • SURVEY & LAND INFORMATION SERVICES

SHEET 1 OF 1
DWG. NO: 10-XXX

XREFS: NONE

PROJECT NUMBER: 06.6448

CAD DWG. FILE NAME: FIGURE-3B.DWG

MAP REFERENCE No. 1

N.Y.S. ROUTE 4

N67°43'55"E 24.00'

N86°35'49"E 45.12'

N28°04'00"W 29.39'

N80°47'20"E 38.02'

N80°47'20"E 149.32'

S17°36'38"E 36.10'

N77°12'13"E 87.61'

MON ROW

Lands of
NEW YORK STATE

WETLAND 7

SS-22

SS-23

MW-12 (DESTROYED)

BMW-18A WLE=494.16

WS/WSW-4

HYD

PERENNIAL STREAM 1

EARTHEN DIKE

S87°04'00"E 50.00'

N06°35'20"E 175.45'

S85°35'10"E 111.90'

S85°35'10"E 54.65'

CIRF

CMON FLUSH

IPF

BMW-14A WLE=494.14

SS-18

B-13

BMW-19A WLE=494.49

MW-10A WLE=494.31

SS-19

BMW-17A WLE=494.47

MW-1A WLE=494.74

SS-20

CB

MW-1

MW-2A WLE=495.05

TP-1

MW-2 (DESTROYED)

PROPERTY LINE RUNS SOUTH EASTERLY ALONG THE SHORE OF WOOD CREEK 1148'± (PER MAP REFERENCE NO. 1)

MW-3A WLE=495.14

ISOLATED WETLAND 8/9

MW-7

TP-4

MW-4A

MW-10 (DESTROYED)

BMW-15A WLE=494.34

MW-5A WLE=496.21

TP-3

FORMER BUILDING FOOTPRINT PER MAP REFERENCE NO. 1

ISOLATED WETLAND 6

B-14

SS-21

WS/WSW-2

MW-5

MW-11

MW-7A (DESTROYED)

MW-3 (DESTROYED)

SS-1

SS-11

MW-6A (DESTROYED)

TP-2

BMW-16A WLE=495.31

SS-2

MW-6

POWER HOUSE

SS-3

WS/WSW-3

ISOLATED WETLAND 5

SS-12

SS-14

SS-4

SS-5

MW-9A (DESTROYED)

BMW-13A WLE=494.46

494.5

495.0

496.0

MW-8A WLE=496.30

BMW-11A WLE=495.32

MW-8

MW-4 (DESTROYED)

SS-15

URS-MW4

BMW-12A WLE=494.71

N82°46'29"W 219.12'

N82°50'00"W 49.45'

N82°50'00"W 177.72'

SS-13

ISOLATED WETLAND 3A

SEWER PUMP STATION

WS/WSW-1

WETLAND 2

WETLAND 1

ISOLATED WETLAND 3

N82°50'00"W 819.01'

SS-16

SS-17

N86°55'00"W 153.00'

CHAMPLAIN CANAL

Lands of
THE PEOPLE OF THE STATE OF NEW YORK

N02°43'30"E 371.57'

Lands now or formerly
THE CLARENDON AND PITTSFORD RAILROAD COMPANY
Book 498 Page 841

Map Notes:

1. North orientation per map reference no. 1.
2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
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1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall. County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

- CB □ — Catch Basin
- HYD ◁ — Hydrant
- Utility Pole

Sampling Locations–Previous Investigations

- B-13 — Approximate location of Soil Boring advanced in May 2007 during previous site investigations
- MW-1 to MW-10 — Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
- MW-1A to MW-10A — Approximate location of existing Monitoring Wells installed in May 2007 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
- SS-1 to SS-5 — Approximate location of Surface Soil Samples collected in 2007 during previous site investigations
- URS-MW — Approximate location of Monitoring Wells installed during the investigation of the site's south adjoining property

Sampling Locations–BCP Remedial Investigations

- SS-11 to SS-23 — Approximate location of Surface Soil Samples collected in March 2010
- TP-1 to TP-4 — Approximate location of Test Pits completed in March 2010
- WS/WSW-1 to WS/WSW-4 — Approximate location of Wetland Sediment (WS)/Wetland Surface Water (WSW) samples collected in March 2010
- BMW-13A to BMW-19A — Approximate location of Test Borings/Monitoring Wells completed in January/February 2010
- SS-22 / BMW-19A — The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation
- Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.
- WLE=493.67 — Water level elevation in feet based on assumed benchmark elevation of 500.00'.
- Groundwater contour line (dashed where inferred) based on water table depths measured on March 25, 2010 and converted to water table elevations based on an assumed benchmark elevation of 500.00'. Arrow depicts inferred direction of groundwater flow.

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

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DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
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APPROVED:

DRAFTED : S.WUNSCH

CHECKED : S.BEIBER

PROJ. NO: 06.6448

SCALE : 1"=50'

DATE : DEC. 9, 2010

FIGURE-3B
GROUNDWATER CONTOUR MAP (3/25/10)

OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

C.T. MALE ASSOCIATES, P.C.
50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299
ARCHITECTURE & BUILDING SYSTEMS ENGINEERING * CIVIL ENGINEERING
ENVIRONMENTAL SERVICES * SURVEY & LAND INFORMATION SERVICES

SHEET 1 OF 1

DWG. NO: 10-XXX

XREFS: NONE

PROJECT NUMBER:06.6448

CAD DWG. FILE NAME: FIGURE-4.DWG

MAP REFERENCE No. 1

N.Y.S. ROUTE 4

N67°43'55"E 24.00'

N86°35'49"E 45.12'

N28°04'00"W 29.39'

N80°47'20"E 38.02'

S17°36'38"E 36.10'

N80°47'20"E 149.32'

N77°12'13"E 87.61'

MON ROW

Lands of NEW YORK STATE

WETLAND 7

BMW-18A

N06°35'20"E 175.45'

S87°04'00"E 50.00'

S85°35'10"E 111.90'

S85°35'10"E 54.65'

CIRF

CMON FLUSH

IPF

PERENNIAL STREAM 1

EARTHEN DIKE

PROPERTY LINE RUNS SOUTH EASTERLY ALONG THE SHORE OF WOOD CREEK 1148'± (PER MAP REFERENCE NO. 1)

WOOD CREEK

SS-22

SS-23

MW-12 (DESTROYED)

WS/WSW-4

HYD

BMW-14A

BMW-19A

MW-10A

SS-18

SS-19

MW-1A

BMW-17A

SS-20

B-13

MW-1

MW-2A

TP-1

MW-2 (DESTROYED)

MW-3A

ISOLATED WETLAND 8/9

MW-7

MW-4A

MW-10 (DESTROYED)

MW-5A

TP-4

TP-3

BMW-15A

B-14

ISOLATED WETLAND 6

SS-21

WS/WSW-2

MW-3 (DESTROYED)

MW-5

SS-1

MW-11

MW-7A (DESTROYED)

FORMER BUILDING FOOTPRINT PER MAP REFERENCE No. 1

MW-6A (DESTROYED)

BMW-16A

TP-2

SS-11

MW-6 POWER HOUSE

SS-2

SS-3

WS/WSW-3

ISOLATED WETLAND 5

SS-4

SS-5

SS-12

MW-9A (DESTROYED)

MW-8A

BMW-11A

SS-14

BMW-13A

MW-8

N82°46'29"W 219.12'

N82°50'00"W 49.45'

N82°50'00"W 177.72'

MW-4 (DESTROYED)

BMW-12A

SS-15

WS/WSW-1

WETLAND 1

WETLAND 2

SS-13

ISOLATED WETLAND 3A

SEWER PUMP STATION

ISOLATED WETLAND 3

N82°50'00"W 819.01'

SS-16

SS-17

N86°55'00"W 153.00'

URS-MW4

URS-MW

Lands of THE PEOPLE OF THE STATE OF NEW YORK

CHAMPLAIN CANAL

N02°43'30"E 371.57'

Lands now or formerly THE CLARENDON AND PITTSFORD RAILROAD COMPANY Book 498 Page 841

SURFACE SOIL SS-1		
PARAMETER	CONC.	SCG
BENZO(a)ANTHRACENE	20	5.6
BENZO(a)PYRENE	16	1
BENZO(b)FLUORANTHENE	19	5.6
DIBENZ(a,h)ANTHRACENE	2.5	0.56
INDENO(1,2,3-cd)PYRENE	9.4	5.6

SURFACE SOIL SS-5		
PARAMETER	CONC.	SCG
BENZO(a)PYRENE	1.2	1

SURFACE SOIL SS-3		
PARAMETER	CONC.	SCG
BENZO(a)PYRENE	2	1

SURFACE SOIL SS-20		
PARAMETER	CONC.	SCG
ZINC	145	109

Map Notes:

1. North orientation per map reference no. 1.
2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
3. Coordinates and vertical datum are assumed.

Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall. County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

- CB □ — Catch Basin
- HYD ◁ — Hydrant
- Utility Pole

Sampling Locations–Previous Investigations

- B-13 — Approximate location of Soil Boring advanced in May 2007 during previous site investigations
- MW-1 to MW-10 — Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
- MW-1A to MW-10A — Approximate location of existing Monitoring Wells installed in May 2007 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
- SS-1 to SS-5 — Approximate location of Surface Soil Samples collected in 2007 during previous site investigations
- URS-MW — Approximate location of Monitoring Wells installed during the investigation of the site's south adjoining property

Sampling Locations–BCP Remedial Investigations

- SS-11 to SS-23 — Approximate location of Surface Soil Samples collected in March 2010
- TP-1 to TP-4 — Approximate location of Test Pits completed in March 2010
- WS/WSW-1 to WS/WSW-4 — Approximate location of Wetland Sediment (WS)/Wetland Surface Water (WSW) samples collected in March 2010
- BMW-13A to BMW-19A — Approximate location of Test Borings/Monitoring Wells completed in January/February 2010
- SS-22 / BMW-19A — The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation
- Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.
- Depicts surface soil sampling location where parameters exceeded SCGs for commercial use sites. Parameter concentration and SCGs are in mg/kg or parts per million (ppm). All parameters exceeding SCGs are from surface soil samples collected during the 2007 C.T. Male Supplemental Phase II ESA.

BAR SCALE

50 0 25 50 100

1 inch = 50 ft.

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CHECKED : S.BEIBER

PROJ. NO: 06.6448

SCALE : 1"=50'

DATE : OCT. 25, 2010

FIGURE-4
PARAMETERS IN SURFACE SOILS EXCEEDING SCGs FOR COMMERCIAL USE SITES
OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

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ARCHITECTURE & BUILDING SYSTEMS ENGINEERING • CIVIL ENGINEERING
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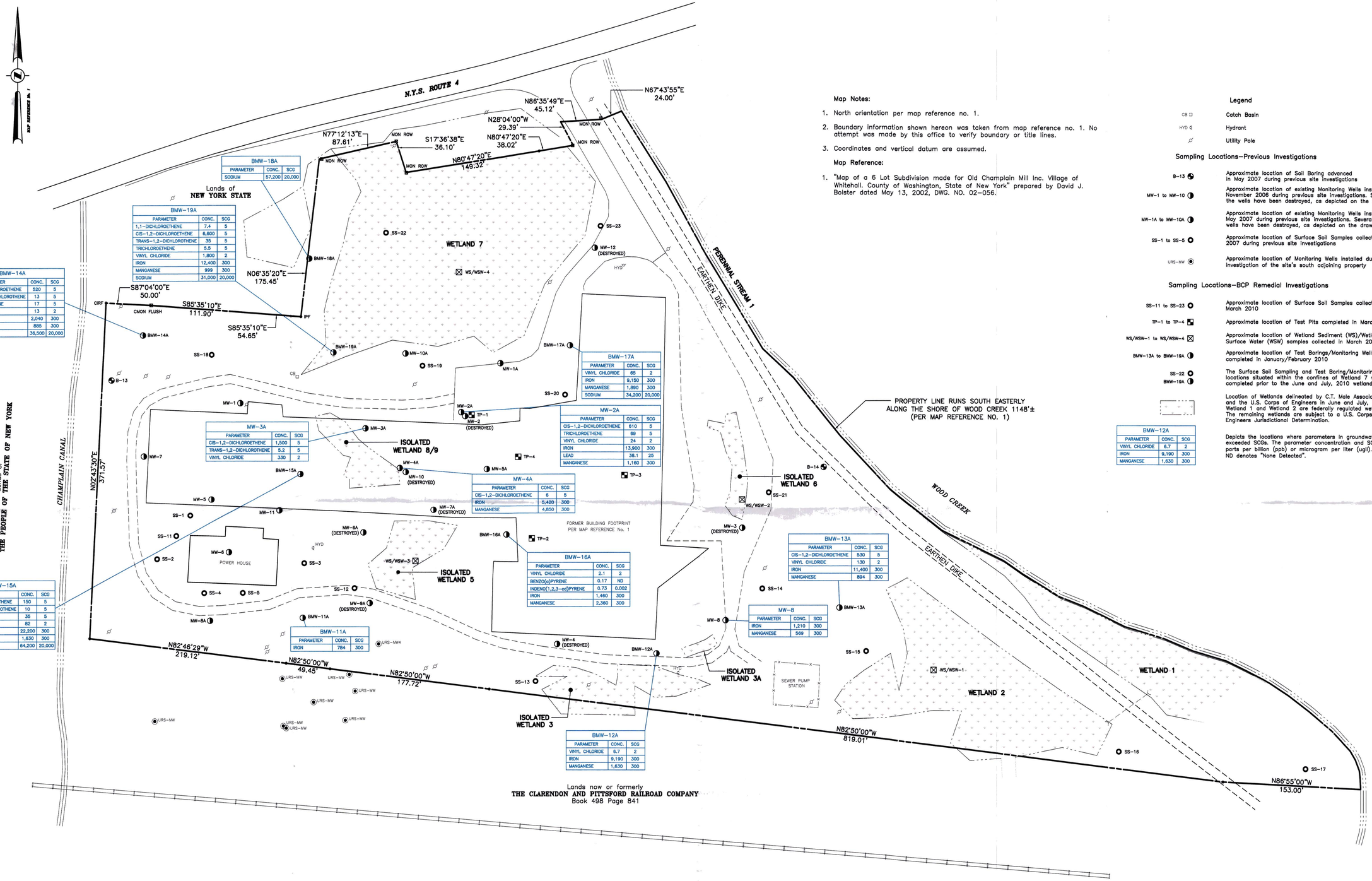
SHEET 1 OF 1

DWG. NO: 10-XXX

XREFS: NONE

PROJECT NUMBER: 06.6448

CAD DWG. FILE NAME: FIGURE-6.DWG



Map Notes:

1. North orientation per map reference no. 1.
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Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall, County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

- CB □ — Catch Basin
- HYD ◁ — Hydrant
- ∅ — Utility Pole

Sampling Locations–Previous Investigations

- B-13 — Approximate location of Soil Boring advanced in May 2007 during previous site investigations
- MW-1 to MW-10 — Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing
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- SS-1 to SS-5 — Approximate location of Surface Soil Samples collected in 2007 during previous site investigations
- URS-MW — Approximate location of Monitoring Wells installed during the investigation of the site's south adjoining property

Sampling Locations–BCP Remedial Investigations

- SS-11 to SS-23 — Approximate location of Surface Soil Samples collected in March 2010
- TP-1 to TP-4 — Approximate location of Test Pits completed in March 2010
- WS/WSW-1 to WS/WSW-4 — Approximate location of Wetland Sediment (WS)/Wetland Surface Water (WSW) samples collected in March 2010
- BMW-13A to BMW-19A — Approximate location of Test Borings/Monitoring Wells completed in January/February 2010
- SS-22 / BMW-19A — The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation
- Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.

BMW-12A

PARAMETER	CONC.	SCG
VINYL CHLORIDE	6.7	2
IRON	9,190	300
MANGANESE	1,630	300

Depicts the locations where parameters in groundwater have exceeded SCGs. The parameter concentration and SCG are in parts per billion (ppb) or microgram per liter (ug/l). ND denotes "None Detected".

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

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CHECKED : S.BEIBER

PROJ. NO: 06.6448

SCALE : 1"=50'

DATE : OCT. 25, 2010

FIGURE-6
PARAMETERS EXCEEDING SCGs IN GROUNDWATER
OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

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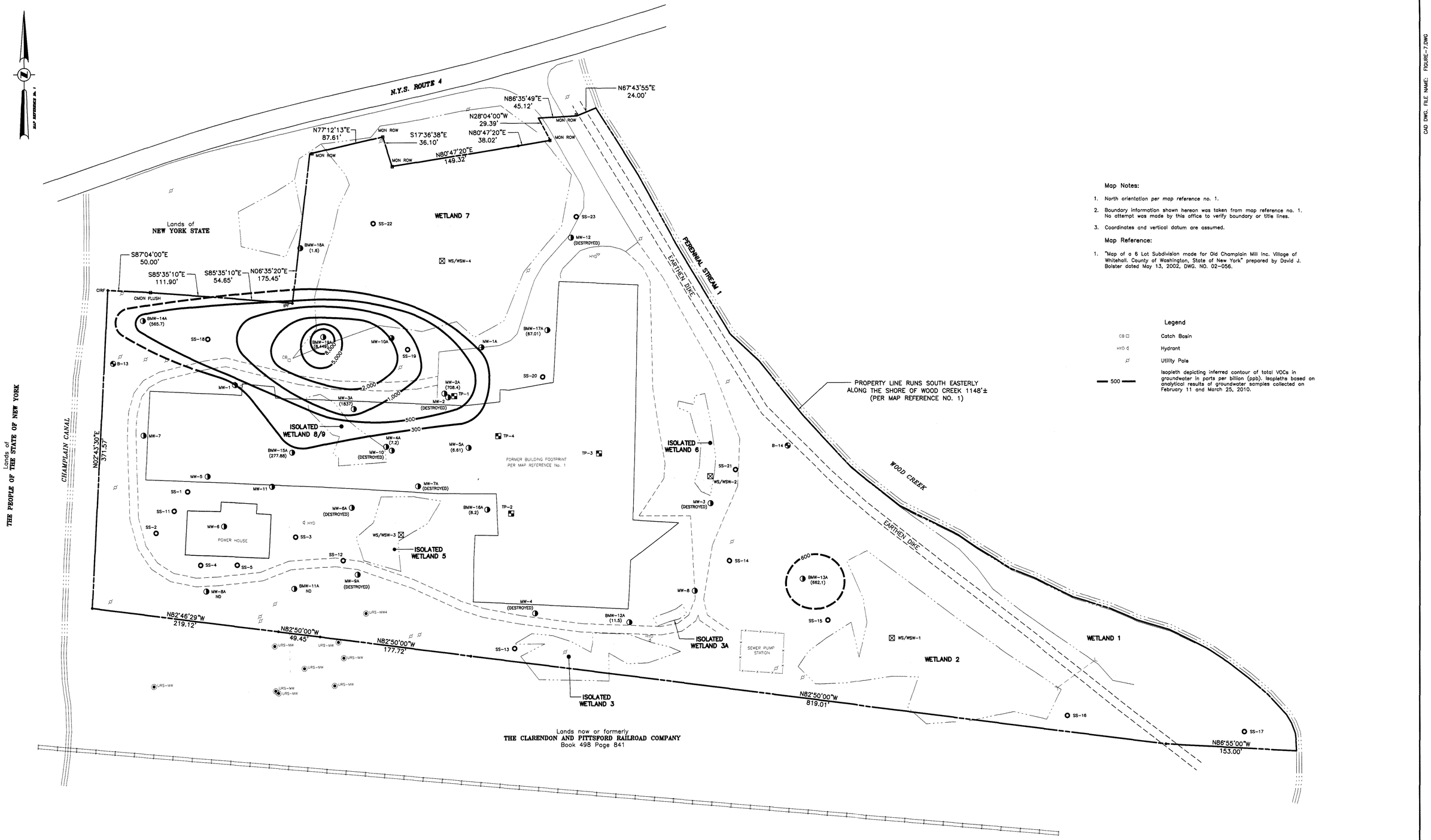
SHEET 1 OF 1

DWG. NO: 10-XXX

XREFS: NONE

PROJECT NUMBER:06.6448

CAD DWG. FILE NAME: FIGURE-7.DWG



Map Notes:

1. North orientation per map reference no. 1.
2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
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Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall, County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

CB □	Catch Basin
HYD ◇	Hydrant
⌀	Utility Pole
500	Isopleth depicting inferred contour of total VOCs in groundwater in parts per billion (ppb). Isopleths based on analytical results of groundwater samples collected on February 11 and March 25, 2010.

BAR SCALE
50 0 25 50 100
1 inch = 50 ft.

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DATE : DEC. 9, 2010

FIGURE-7
TOTAL VOCs IN GROUNDWATER ISOCONCENTRATION MAP
OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL — WASHINGTON COUNTY, NEW YORK

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SHEET 1 OF 1
DWG. NO: 10-XXX

EXHIBIT 5

HRC PRODUCT SPECIFICATIONS

Hydrogen Release Compound (HRC®)

Product

HRC® is a controlled release, electron donor material, that when hydrated is specifically designed to produce a controlled release of lactic acid. The newly available lactic acid is critical for the production of hydrogen to fuel anaerobic biodegradation processes in soil and groundwater.

Purpose

To make available time release lactic acid for fermentation by subsurface microbes that in turn generates hydrogen. Hydrogen is the key ingredient in the anaerobic contaminant degrading process known as reductive dechlorination. Reductive dechlorination is the mechanism by which chlorinated compounds are biodegraded into less harmful constituents such as ethene and ethane.



Functionality

HRC® is typically applied using direct-injection techniques. This process enables the viscous HRC® material to be pressure injected into the zone of contamination and moved out into the aquifer media. Once in the subsurface, HRC® can reside within the soil matrix fueling reductive dechlorination and promoting reducing aquifer conditions for periods of up to 24 months or longer through the controlled release of lactic acid and subsequent hydrogen production.

HRC® is supplied as a viscous liquid for direct injection into contaminated groundwater and saturated soils. This specially formulated product produces a controlled release of lactic acid upon contact with water (Figure 1). This newly available source of lactic acid is then metabolized by microbes to produce hydrogen which is then used in a naturally occurring process known as anaerobic reductive dechlorination (Figure 2). The reductive dechlorination process results in the step-by-step biological degradation of chlorinated contaminants. HRC® can be used to degrade a range of chlorinated compounds including: degreasing agents (PCE, TCE, TCA and their breakdown products), carbon tetrachloride, chloroform, methylene chloride, certain pesticides/herbicides, perchlorate, nitrate, nitroaromatic explosives and dyes, chlorofluorocarbons, certain metals and radionuclides.

More on Reductive Dechlorination

As discussed, reductive dechlorination is a term used to describe the mechanism by which chlorinated hydrocarbons are biologically degraded under anaerobic conditions. In this natural process, anaerobic microbes substitute hydrogen (H) for chlorine (Cl) on chlorinated contaminant molecules, thus dechlorinating the compound. Being a natural process, reductive dechlorination usually proceeds at very slow, unsustainable rates.

HRC® increases the rate of dechlorination up to several orders of magnitude, rapidly taking the contaminant through a step-wise dechlorination process that ultimately results in the production of non-toxic compounds such as ethene and ethane. Under the influence