Waite - Heindel
Environmental Management

May 14, 2015

Mr. William Young
28 North Williams Street
Burlington, VT 05401

RE: Groundwater Monitoring Report: February 2015
Young Residence
28 North Williams Street
Burlington, VT 05401
SMS Site #2013-4436

Dear Mr. Young:

Waite-Heindel Environmental Management (WHEM) is pleased to present the *Groundwater Monitoring Report* for work conducted during February 2015 at your property at 28 North Williams Street in Burlington, Vermont. We are continuing to work on the Corrective Action Plan (CAP) and will hopefully have this completed this spring.

Do not hesitate to contact me if you have questions. I can be reached at (802) 860-9400 ext. 101 or by email at mwaite@waiteenv.com

Sincerely,

Miles E. Waite, Ph.D.
Senior Hydrogeologist

Cc: Hugo Martinez-Cazón, VDEC Site Manager

Enclosure

GROUNDWATER MONITORING REPORT: FEBRUARY 2015

Young Residence
28 N. Williams Street
Burlington, Vermont 05401

SMS SITE #2013-4436

May 14, 2015

Prepared for:

Mr. William Young
28 North Williams Street,
Burlington, Vermont 05401

Prepared by:

Waite - Heindel
Environmental Management

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1.0 INTRODUCTION

Waite-Heindel Environmental Management (WHEM) of Burlington, Vermont conducted a round of groundwater quality monitoring and sump sampling on February 19, 2015 at the Young residence, located at 28 North Williams Street in Burlington, VT (SMS #2013-4436). In addition, as a follow-up to air sampling results indicating the presence of PCE and other chlorinated compounds in the indoor air, the Young family conducted an inventory of all stored chemicals and cleaners in their basement. A brief discussion of that inventory is included.

The work performed was per WHEM's work scope dated November 3, 2014, which was approved by VT DEC in an email dated November 14, 2014. The approvals were for a year of quarterly groundwater monitoring (November, February May, August) as per WPCE#13945, and for a round of indoor air sampling as per WPCE#13947. Also approved was preparation of a Corrective Action Plan (CAP) as per WPCE#13948. WHEM is continuing to work on the CAP, which will be submitted under separate cover following shortly after this report.

2.0 GROUNDWATER SAMPLING

2.1 Sump Sampling

On February 19, 2015 WHEM conducted a sump sampling from Sump South and Sump North for VOC analysis via Method 8260C. Sump locations are shown on the Site Plan in Appendix 1. Generally, both sumps are purged prior to sampling so that fresh water can be sampled. The water level in Sump South was very low, however, so the sump pump was not engaged, as it was unlikely that fresh water would recharge at a reasonable rate. Sump water at both locations produced a mild petroleum odor, but no sheen was observed by field staff for the first time since sampling began. Samples were kept on ice and delivered to Endyne Laboratories for analysis on the day of sampling. Results are discussed in Section 2.3.

In addition to sampling of the sump, the pump meter readings were recorded for each pump to keep track of volume of water flow. Flow data are provided in Table 3 in Appendix A. As these data show, Sump North flows are typically in the range of 120 gallons per day (gpd), whereas Sump South flows are much lower, ranging between 4-9 gpd. Flow data since meter installation (April 21, 2014) shows that a total of approximately 38,427 gallons of water has been collected and discharged to the sanitary sewer system. Average flows from each sump total to about 127.4 gpd (122.4 gpd at Sump N, 3.96 gpd at Sump S). The forthcoming CAP will address viability of

continued sump discharge to sewer, and necessary modifications to the sump system that will be required.

2.2 Groundwater Sampling

On February 19, 2015, WHEM performed groundwater monitoring from the three (3) existing monitoring wells, identified on the Site Plan as MW-1, MW-2, and MW-3. Prior to sampling, wells were gauged for depth to groundwater, which ranged from 3.45 ft below top of casing (BTOC) in MW-1 to 7.10 ft BTOC in MW-2. Groundwater elevations, presented in Table 1 in Appendix 2, ranged from a high of 96.55 ft (MW-1) to a low of 92.10 ft (MW-2). These elevations are towards the lower end of water table elevations measured to date. Groundwater elevations have been mapped and contoured as shown in Figure 2 in Appendix 1. All groundwater elevation data collected to date is included as Table 1.0 in Appendix 2, and a chart showing variation in elevation over time is included in Appendix 2. The presence of the house foundation below the water table makes it unlikely that groundwater flow is linear and underneath the building; the new Groundwater Elevation Map depicts this more likely situation. It should be noted that the water level in MW-2 may be influenced by the home's French drain system, which lowers the groundwater elevation immediately surrounding the house. This theory is supported by the muted change in groundwater elevation at MW-2 between monitoring rounds compared MW-1 and MW-3. As the contours show, groundwater flow most likely splits at the southeast corner of the building's foundation between northward flow towards Sump North and eastward flow towards MW-3 and North Williams Street. The site-wide horizontal hydraulic gradient is calculated at 0.13 ft/ft to the east-northeast, or 13% (calculated from MW-1 to MW-2).

All wells were purged of approximately three well volumes and sampled via peristaltic pump. Three well volumes were successfully pumped from MW-1 and MW-3, but MW-2 went dry. All wells were allowed to recharge prior to sampling. Samples were delivered on ice following chain-of-custody procedures to Endyne Laboratories in Williston, Vermont; samples were originally submitted for analysis by 8021B, but the analysis was changed to 8260C per SMS request in response to detections of chlorinated VOCs in indoor air samples.

Purged groundwater from MW-2 had a detectable septic odor, though there is no sign of a leaking sewer line from inside the house. Purged groundwater from MW-1 had a detectable petroleum odor and faint sheen. Groundwater from MW-3 possessed no odor or sheen.

2.3 Groundwater and Sump Results

The groundwater results are presented in Table 2 in Appendix 2. The full laboratory report is provided in Appendix 3. Charts depicting variation in Naphthalene concentrations in Sump North, Sump South, and MW-1 are also included in Appendix 2. All concentrations have been compared to the Vermont Groundwater Enforcement Standards (VGES). These results, shown in micrograms per liter (ug/L), are summarized below:

- Results from the February 2015 Sump sampling event revealed the presence of a suite of petroleum VOCs in both sumps. MTBE, Benzene and Toluene were non-detected in both sumps. Detected compounds were all below respective VGES values. This marks the first round of sampling that neither Sump North nor Sump South exceeded VGES for Naphthalene. Total VOC concentrations in Sump North decreased to their lowest sum to date (33.7 ug/L); Total VOC concentrations in Sump South increased (58.9 ug/L) from November 2014 (19.2 ug/L), and appear to vary considerably between sampling events.

- Results from the February 19, 2015 revealed Naphthalene (30.1 ug/L) and Benzene (5.1 ug/L) at their highest concentrations to date in MW-1, and in exceedance of VGES (20 ug/L and 5 ug/L, respectively). This is only the second sampling event to date that Naphthalene has exceeded VGES in MW-1, and the first time that Benzene has exceeded VGES. No contaminants were reported in downgradient wells MW-2 or MW-3, which is consistent with historical data.

- Other VOCs were detected well below standards via Method 8260, including petroleum breakdown products in MW-1 and the Sump wells. No chlorinated VOCs were detected in any samples except for Chloroform in MW-2, at low levels; this detection may be related to the well's proximity to the sewer line, and the slight septic odor identified in the purge water. Acetone was also detected in MW-2, and it is suspected that again this may be a product of the well's proximity to the sewer line.

- Based on the reported concentrations in groundwater, it continues to be unlikely that VGES is exceeded for any compounds at the downgradient property line.

Quality Assurance/Quality Control (QA/QC) samples included a duplicate and trip blank, which was prepared at Endyne Laboratories. The duplicate sample was collected in conjunction with the sample from MW-1, using the same sampling methodology. Results of the QA/QC sampling, included as Table 4 in Appendix 2 and in the lab report in Appendix 3, indicate that

that results for all compounds reported at least twice the practical quantitation limit (PQL) were below 30% relative percent difference (RPD) in the duplicate pair (MW-1 and "Duplicate" sample). This indicates generally acceptable analytical results and sample parity. No contaminants were detected in the trip blank.

3.0 Basement Inventory and Results

In response to the detection of several chlorinated solvents in the indoor air at the Young residence on December 4-5, 2014, the SMS requested that the home occupants conduct an inventory of chemicals stored in the basement of their home. The Youngs were able to compile a thorough list of all containers, cleaners, and other products stored in the basement. Several products could have contributed to the identified concentrations of PCE, but the most important revelation came from a discussion with Bill Young detailing the storage of a large amount of dry-cleaned clothing in the basement. Dry-cleaned clothing is a source of low-level PCE in indoor air. While most of these clothes had been dry-cleaned a long while ago, some had been more recent. If wrapped in plastic, off-gassing of PCE vapors is slower. The levels of PCE observed in the basement air space, though in exceedance of VT DEC standards for indoor air, are low enough that they may reflect the storage of dry-cleaned clothes.

WHEM reviewed the inventory, which is included in Appendix 4 of this report, and identified several products that would be better to keep in the garage rather than stored indoors. These included any opened paint cans, insecticides, and unused cleaners. Some products that were not easily identified or provided only limited information were collected by the Youngs and delivered to the CSWD Hazardous Waste dropoff center in South Burlington, VT for proper disposal. WHEM also advised Mr. and Mrs. Young that to further limit exposure to PCE, they should consider switching to a non-PCE dry-cleaner, like Gadue's, or consider airing out clothes longer prior to storing in the basement, if possible.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results presented in this report, WHEM reaches the following conclusions:

1. Measurements taken from the sumps' installed volt-meters indicate that approximately 38,000 gallons of water have been pumped since the meters were installed on April 21, 2014. Average flows from each sump total to about 127.4 gpd (122.4 gpd at Sump N, 3.96 gpd at Sump S). VOC concentrations fell to their lowest levels to date in Sump

North, but increased somewhat compared to November 2014 in Sump South. For the first monitoring event to date, neither sump reported VGES exceedances. VOC concentrations appear to vary more dramatically in Sump South than Sump North.

2. In MW-1, Naphthalene concentrations increased from November 2014 and exceeded the VGES for the second consecutive sampling event. Benzene also increased and slightly exceeded the VGES for the first event to date. Total VOCs were reported at the highest level to date. The cause for this variation is not clear and does not appear to be related water table elevation alone. No petroleum VOCs were detected in MW-2 or MW-3, which is consistent with historical data.

3. Due to the presence of chlorinated VOCs in indoor air samples collected in December 2014, groundwater samples were analyzed via EPA Method 8260 rather than 8021. The only chlorinated VOC detected in groundwater was a low concentration of chloroform in MW-2; the presence of a slight septic odor in this well indicates that chloroform may be present as a decontamination byproduct from municipal water. The lack of other chlorinated VOCs, including PCE, in the groundwater confirms that the source of these compounds in the basemen indoor air is not the groundwater beneath the building.

4. The Youngs prepared an inventory of all suspect chemicals or containers in their basement following the detection of PCE in the indoor air in exceedance of VT DEC standards during the December 2014 indoor air quality investigation. The only source of PCE identified in the inventory is the storage of dry-cleaned clothes in the basement, some of which had been dry-cleaned recently. The levels of PCE detected in the indoor were only slightly above standards, and it is likely due to the dry-cleaned clothing in the absence of other clear sources. WHEM recommended limiting PCE exposure by switching to a non-PCE dry-cleaner, or allowing clothes to air out more prior to storage if possible.

Based on the above conclusions, WHEM recommends continuing with quarterly groundwater and sump monitoring, with the next event scheduled for May 2015. WHEM is in the process of developing a Corrective Action Plan to address the recommendations above. A draft schematic showing the proposed Corrective Action Alternatives is shown as Figure 3 in Appendix A. The forthcoming Corrective Action Plan will be submitted to the VT DEC for approval once we have approval from the City of Burlington to operate the proposed sump treatment system as proposed. The City approval process is taking longer than anticipated.

APPENDIX 1

FIGURES

GARAGE

JANUARY 2014
EXCAVATION LIMITS

AS
OUTDOOR

ASPHALT
DRIVEWAY

ADDITION:
SLAB ON GRADE

RELICT U.S.T. REMOVED
SEPTEMBER 2013

SIDEWALK

STUDY

SEPTEMBER 2013 EXCAVATION
LIMITS

CRAWL SPACE

MW-1

FRENCH DRAIN

SUMP SOUTH

KITCHEN (1ST FLOOR)

SUMP NORTH

AS
BASEMENT
POOL TABLE
(BASEMENT)

BASEMENT
FLOOR ELEV. APPROX: 92 FT

LIVING ROOM
(1ST FLOOR)

AS
FIRST FLOOR

UNUSED A.S.T. REMOVED
IN JANUARY 2014

YOUNG RESIDENCE
28 N. WILLIAMS STREET
SITE #2013-4436

HUDDLE RESIDENCE
34 N. WILLIAMS STREET
SITE #2011-4316

20 N. WILLIAMS STREET

MW-2

MW-3

WATER LINE (APPROX)

SEWER LINE (APPROX)

ASPHALT DRIVE

SIDEWALK

N. WILLIAMS STREET

LEGEND

- PROPERTY LINE FROM TAX MAP (APPROX)
- SUMP PUMP INSTALLED BY OWNER
- MW-1 MONITORING WELL INSTALLED BY WHEM
- AS AIR SAMPLE LOCATION (NOVEMBER 2014)

0 5 10 20
GRAPHIC SCALE: 1"=10'

NOTES:
1. BASE PLAN IS ORIGINAL BLUEPRINT OF HOUSE PROVIDED BY OWNER.
2. ALL LOCATIONS APPROXIMATE. THIS IS NOT A SURVEYED PLAN.

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Burlington, Vermont • (802) 860-9400

1

DATE: 1/14/15
PROJECT NO.
DRAWN BY: D.W.F.
PROJ. MGR: C.P.
APPROVED: M.E.W.

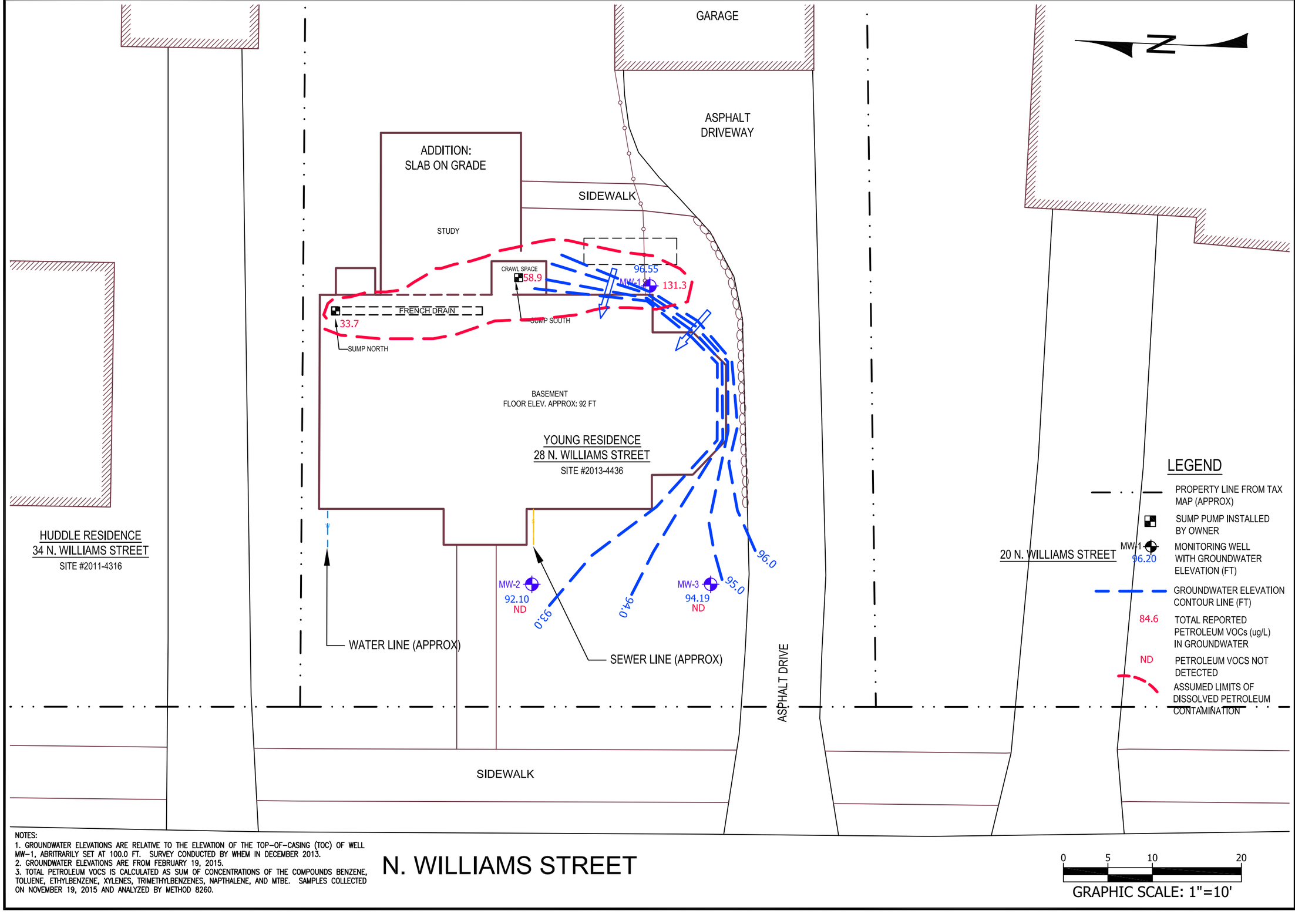
☐ DRAFT ☒ FINAL

YOUNG
28 NORTH WILLIAMS STREET
BURLINGTON, VERMONT

SITE PLAN

FILE: Young Williams Street.dwg

SCALE: 1" = 10'



NOTES:
1. GROUNDWATER ELEVATIONS ARE RELATIVE TO THE ELEVATION OF THE TOP-OF-CASING (TOC) OF WELL MW-1, ABRITRARILY SET AT 100.0 FT. SURVEY CONDUCTED BY WHEM IN DECEMBER 2013.
2. GROUNDWATER ELEVATIONS ARE FROM FEBRUARY 19, 2015.
3. TOTAL PETROLEUM VOCS IS CALCULATED AS SUM OF CONCENTRATIONS OF THE COMPOUNDS BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, TRIMETHYLBENZENES, NAPTHALENE, AND MTBE. SAMPLES COLLECTED ON NOVEMBER 19, 2015 AND ANALYZED BY METHOD 8260.

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2

DATE: 4/13/15
PROJECT NO.
DRAWN BY: D.W.F.
PROJ. MGR: C.P.
APPROVED: M.E.W.

☐ DRAFT ☒ FINAL

YOUNG
28 NORTH WILLIAMS STREET
BURLINGTON, VERMONT

GROUNDWATER ELEVATION AND CONTAMINANT CONCENTRATION MAP - FEBRUARY 2015

FILE: Young Williams Street.dwg

SCALE: 1" = 10'

N

ADDITION: SHALLOW CONCRETE SLAB

OPTION C: ISCO INJECTION

SIDEWALK

DRIVEWAY

AREAL EXTENT OF ISCO INJECTION

INJECTION POINT
-GEOPROBE INSTALLED
-RADIAL INJECTION OF ORC ADVANCED AT 3-10 FT DEPTH
-250 FT2 AREAL EXTENT
-GROUT SEAL UPON COMPLETION

INJ

GARDEN

MW-1

FURNACE

HOT WATER HEATER

OPTION B: SUMP WATER TREATMENT

SUMP SOUTH:
-CONTINUE TO USE
DISCONNECT FROM SEWER CONNECTION, RE-PLUMB TO SUMP NORTH

NEW CONNECTION
-1.5" SCH 40 PVC

SUMP NORTH
-CONTINUE TO USE

CHECK VALVE

EXISTING CONNECTION TO SEWER

EXISTING SINK

BACKFLOW PREVENTION

TOTALIZING METER
-CITY APPROVED
-RADIO READ SYSTEM

SAMPLING PORT:
INFLUENT (UNTREATED)

FILCORP FC-3
55-GALLON GRANULAR ACTIVATED CARBON

SAMPLING PORT:
EFFLUENT (TREATED)

LIBERTY MODEL 404
PUMP CHAMBER

VENT

NEW PLUMBING
-1.5" SCH 40 PVC

WINDOW WELL

SUMP NORTH

SUMP SOUTH

FRENCH DRAIN

EXISTING SINK

EXISTING SANITARY SEWER LINE
-UNDER BASEMENT FLOOR
-CAST IRON
-NO CHANGES PROPOSED

INDOOR AIR SAMPLE LOCATION - NOV. 2014
-NO PETROLEUM VOCS DETECTED ABOVE TARGET LEVELS
-NO ADVERSE RISK TO INDOOR AIR

AS

LOLLY COLUMN

LOLLY COLUMN

POOL TABLE

WINDOW WELL

EXISTING SANITARY SEWER LINE
-UNDER BASEMENT FLOOR
-CAST IRON
-NO CHANGES PROPOSED

EXISTING CLEANOUT IN FLOOR HATCH

WATER SERVICE

FRONT STOOP
CONCRETE SLAB

CONNECTION TO COMBINED SYSTEM UNDER N. WILLIAM STREET

LEGEND

- ASSUMED LIMITS OF SOIL CONTAMINATION
- SUMP PUMP INSTALLED BY OWNER
- EXISTING SANITARY SEWER LINE
- MONITORING WELL
- AS — AIR SAMPLE LOCATION
- INJ — POTENTIAL ISCO INJECTION POINT
- GROUNDWATER FLOW DIRECTION

YOUNG BASEMENT
28 N. WILLIAMS STREET
SITE #2013-4436

0 2.0 4.0 8.0
GRAPHIC SCALE: 1"=4'

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3

DATE: 4/1/15
PROJECT NO.
DRAWN BY: D.W.F. / M.W.
PROJ. MGR: C.P.
APPROVED: M.E.W.

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YOUNG
28 NORTH WILLIAMS STREET
BURLINGTON, VERMONT
SCHEMATIC CORRECTIVE ACTION OPTIONS
YOUNG PROPERTY

DRAFT

FILE: Young Williams Street.dwg

SCALE: 1" = 4'

APPENDIX 2

TABLES AND CHARTS

TABLE 1.0
Groundwater Elevation Measurements:
Young Residence
28 N. Williams Street, Burlington
SMS Site #2013-4436

Well ID	Measuring Point (ft)	Measuring Point Elevation (ft)	Date	Depth to Water (ft btoc)	Groundwater Elevation (ft)
MW-1	TOC	100.00	12/23/13	3.80	96.20
			8/11/14	3.10	96.90
			11/18/14	2.81	97.19
			2/19/15	3.45	96.55
MW-2	TOC	99.20	12/23/13	7.28	91.92
			8/11/14	7.04	92.16
			11/18/14	6.96	92.24
			2/19/15	7.10	92.10
MW-3	TOC	98.54	12/23/13	4.08	94.46
			8/11/14	3.87	94.67
			11/18/14	3.60	94.94
			2/19/15	4.35	94.19

Notes:
-All elevations in feet, relative to arbitrary benchmark (MW-1 top of casing)
-"<"= less than bottom elevation of well, signifiying that the well dry during monitoring event; "NA" =not available; blank = not sampled.

TABLE 2.0
Groundwater Quality Data
Young Residence
28 N. Williams St, Burlington, Vermont

Well	Units	VGES	Sump South					
Sample Date			9/12/2013	12/23/2013	4/29/2014	8/11/2014	11/18/2014	2/19/2015
Depth to water (feet below top of casing)			na	na	na	na	na	na
PETROLEUM VOLATILE ORGANIC COMPOUNDS (VOCs) (EPA Method 8260/8021B)								
MTBE	ug/L (ppb)	40	ND / < 10.0	ND / < 2.0	ND / < 2.0	ND / < 2.0	ND / < 2.0	ND / < 2.0
Benzene	ug/L (ppb)	5.0	ND / < 5.0	ND / < 1.0	**2.5**	ND / < 5.0	ND / < 1.0	ND / < 1.0
Toluene	ug/L (ppb)	1,000	ND / < 5.0	ND / < 1.0	ND / < 1.0	ND / < 1.0	ND / < 1.0	ND / < 1.0
Ethylbenzene	ug/L (ppb)	700	ND / < 5.0	**2.5**	**13.6**	**16.9**	**3.4**	**11.8**
Xylenes	ug/L (ppb)	10,000	**18.9**	**2.5**	**22.9**	**14.0**	**3.3**	**13.2**
1,3,5-Trimethylbenzene	ug/L (ppb)	350	**5.3**	ND / < 1.0	**22.8**	**8.0**	**1.4**	**3.9**
1,2,4-Trimethylbenzene	ug/L (ppb)		**8.7**	**1.7**	**27.0**	**26.4**	**4.1**	**16.1**
Naphthalene	ug/L (ppb)	20	**15.8**	**4.9**	**70.1**	**38.3**	**7.0**	**13.9**
TOTAL PETROLEM VOCS	*ug/L (ppb)*	--	***48.7***	***11.6***	***156.4***	***103.6***	***19.2***	***58.9***
Unidentified Peaks	#	--	>10	>10	>10	>10	>10	>10
NON-PETROLEUM VOLATILE ORGANIC COMPOUNDS (VOCs) (EPA Method 8260)								
Acetone	ug/L (ppb)	700		ND / < 10.0				ND / < 10.0
Bromodichloromethane	ug/L (ppb)	80		ND / < 0.5				ND / < 0.5
Chloroform	ug/L (ppb)			ND / < 1.0				ND / < 1.0
2-Butanone	ug/L (ppb)	4200		ND / < 10.0				ND / < 10.0
Tetrachloroethene	ug/L (ppb)	5		ND / < 1.0				ND / < 1.0
TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS (EPA Method 8015B)								
TPH-DRO	mg/L (ppm)		**15.8**					

Well	Units	VGES	Sump North					
Sample Date			9/12/2013	12/23/2013	4/29/2014	8/11/2014	11/18/2014	2/19/2015
Depth to water (feet below top of casing)			na	na	na	na	na	
PETROLEUM VOLATILE ORGANIC COMPOUNDS (VOCs) (EPA Method 8260/8021B)								
MTBE	ug/L (ppb)	40	ND / < 2.0	ND / < 2.0	ND / < 2.0	ND / < 2.0	ND / < 2.0	ND / < 2.0
Benzene	ug/L (ppb)	5.0	ND / < 1.0	**1.4**	**1.6**	**2.1**	**1.3**	ND / < 1.0
Toluene	ug/L (ppb)	1,000	ND / < 1.0	ND / < 1.0	ND / < 1.0	ND / < 1.0	ND / < 1.0	ND / < 1.0
Ethylbenzene	ug/L (ppb)	700	ND / < 1.0	**4.2**	**8.6**	**11.2**	**6.7**	**7.2**
Xylenes	ug/L (ppb)	10,000	**9.3**	**14.4**	**25.3**	**26.4**	**10.3**	**6.3**
1,3,5-Trimethylbenzene	ug/L (ppb)	350	**6.3**	**8.4**	**11.6**	**9.8**	**5.3**	**3.5**
1,2,4-Trimethylbenzene	ug/L (ppb)		**8.6**	**17.5**	**20.0**	**28.1**	**25.8**	**12.8**
Naphthalene	ug/L (ppb)	20	**22.7**	**23.3**	**29.6**	**24.5**	**23.4**	**3.9**
TOTAL PETROLEM VOCS	*ug/L (ppb)*	--	***46.9***	***69.2***	***96.7***	***102.1***	***72.8***	***33.7***
Unidentified Peaks	#	--	>10	>10	>10	>10	>10	>10
NON-PETROLEUM VOLATILE ORGANIC COMPOUNDS (VOCs) (EPA Method 8260)								
Acetone	ug/L (ppb)	700		ND / < 10.0				ND / < 10.0
Bromodichloromethane	ug/L (ppb)	80		ND / < 0.5				ND / < 0.5
Chloroform	ug/L (ppb)			ND / < 1.0				ND / < 1.0
2-Butanone	ug/L (ppb)	4200		ND / < 10.0				ND / < 10.0
Tetrachloroethene	ug/L (ppb)	5		ND / < 1.0				ND / < 1.0
TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS (EPA Method 8015B)								
TPH-DRO	mg/L (ppm)		**10.8**					

Well	Units	VGES	MW-1					
Sample Date			9/12/2013	12/23/2013	4/29/2014	8/11/2014	11/18/2014	2/19/2015
Depth to water (feet below top of casing)				3.80		3.10	41961.00	2.81
PETROLEUM VOLATILE ORGANIC COMPOUNDS (VOCs) (EPA Method 8260/8021B)								
MTBE	ug/L (ppb)	40		ND / < 4.0		ND / < 2.0	ND / < 2.0	ND / < 2.0
Benzene	ug/L (ppb)	5.0		**3.7**		ND / < 5.0	**4.6**	**5.1**
Toluene	ug/L (ppb)	1,000		**5.4**		**5.4**	**1.8**	**1.0**
Ethylbenzene	ug/L (ppb)	700		**7.1**		**10.6**	**13.2**	**16.8**
Xylenes	ug/L (ppb)	10,000		**26.4**		**34.7**	**40.5**	**42.1**
1,3,5-Trimethylbenzene	ug/L (ppb)	350		**8.9**		**7.9**	**8.6**	**9.7**
1,2,4-Trimethylbenzene	ug/L (ppb)			**19.0**		**15.9**	**23.2**	**26.5**
Naphthalene	ug/L (ppb)	20		**16.2**		**10.3**	**24.3**	**30.1**
TOTAL PETROLEM VOCS	*ug/L (ppb)*	--		***86.7***		***84.8***	***116.2***	***131.3***
Unidentified Peaks	#	--		>10		>10	>10	>10
NON-PETROLEUM VOLATILE ORGANIC COMPOUNDS (VOCs) (EPA Method 8260)								
Acetone	ug/L (ppb)	700		**268**				**11.3**
Bromodichloromethane	ug/L (ppb)	80		ND / < 1.0				ND / < 0.5
Chloroform	ug/L (ppb)			ND / < 2.0				ND / < 1.0
2-Butanone	ug/L (ppb)	4200		**812**				ND / < 10.0
Tetrachloroethene	ug/L (ppb)	5		ND / < 1.0				ND / < 1.0
TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS (EPA Method 8015B)								
TPH-DRO	mg/L (ppm)							

TABLE 2.0
Groundwater Quality Data
Young Residence
28 N. Williams St, Burlington, Vermont

Well	Units	VGES	MW-2				
Sample Date			12/23/2013		8/11/2014	11/18/2014	2/19/2015
Depth to water (feet below top of casing)			7.28		7.04	41961.00	6.96
PETROLEUM VOLATILE ORGANIC COMPOUNDS (VOCs) (EPA Method 8260/8021B)							
MTBE	ug/L (ppb)	40	ND / < 2.0		ND / < 2.0	ND / < 2.0	ND / < 2.0
Benzene	ug/L (ppb)	5.0	ND / < 1.0		ND / < 1.0	ND / < 1.0	ND / < 1.0
Toluene	ug/L (ppb)	1,000	ND / < 1.0		ND / < 1.0	ND / < 1.0	ND / < 1.0
Ethylbenzene	ug/L (ppb)	700	ND / < 1.0		ND / < 1.0	ND / < 1.0	ND / < 1.0
Xylenes	ug/L (ppb)	10,000	ND / < 2.0		ND / < 2.0	ND / < 2.0	ND / < 2.0
1,3,5-Trimethylbenzene	ug/L (ppb)	350	ND / < 1.0		ND / < 1.0	ND / < 1.0	ND / < 1.0
1,2,4-Trimethylbenzene	ug/L (ppb)		ND / < 1.0		ND / < 1.0	ND / < 1.0	ND / < 1.0
Naphthalene	ug/L (ppb)	20	ND / < 2.0		ND / < 2.0	ND / < 2.0	ND / < 2.0
TOTAL PETROLEM VOCS	*ug/L (ppb)*	--	*ND / < 5.0*		*ND / < 5.0*	*ND / < 5.0*	*ND / < 5.0*
Unidentified Peaks	#	--	0		1	0	2
NON-PETROLEUM VOLATILE ORGANIC COMPOUNDS (VOCs) (EPA Method 8260)							
Acetone	ug/L (ppb)	700	**67.3**				**22.5**
Bromodichloromethane	ug/L (ppb)	80	**1.4**				ND / < 0.5
Chloroform	ug/L (ppb)		**18.2**				ND / < 1.0
2-Butanone	ug/L (ppb)	4200	ND / < 10.0				ND / < 10.0
Tetrachloroethene	ug/L (ppb)	5	ND / < 1.0				ND / < 1.0
TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS (EPA Method 8015B)							
TPH-DRO	mg/L (ppm)						

Well	Units	VGES	MW-3				
Sample Date			12/23/2013		8/11/2014	11/18/2014	2/19/2015
Depth to water (feet below top of casing)			4.04		3.87	41961.00	3.60
PETROLEUM VOLATILE ORGANIC COMPOUNDS (VOCs) (EPA Method 8260/8021B)							
MTBE	ug/L (ppb)	40	ND / < 2.0		ND / < 2.0	ND / < 2.0	ND / < 2.0
Benzene	ug/L (ppb)	5.0	ND / < 1.0		ND / < 1.0	ND / < 1.0	ND / < 1.0
Toluene	ug/L (ppb)	1,000	ND / < 1.0		ND / < 1.0	ND / < 1.0	ND / < 1.0
Ethylbenzene	ug/L (ppb)	700	ND / < 1.0		ND / < 1.0	ND / < 1.0	ND / < 1.0
Xylenes	ug/L (ppb)	10,000	ND / < 2.0		ND / < 2.0	ND / < 2.0	ND / < 2.0
1,3,5-Trimethylbenzene	ug/L (ppb)	350	ND / < 1.0		ND / < 1.0	ND / < 1.0	ND / < 1.0
1,2,4-Trimethylbenzene	ug/L (ppb)		ND / < 1.0		ND / < 1.0	ND / < 1.0	ND / < 1.0
Naphthalene	ug/L (ppb)	20	ND / < 2.0		ND / < 2.0	ND / < 2.0	ND / < 2.0
TOTAL PETROLEM VOCS	*ug/L (ppb)*	--	*ND / < 5.0*		*ND / < 5.0*	*ND / < 5.0*	*ND / < 5.0*
Unidentified Peaks	#	--	0		1	0	0
NON-PETROLEUM VOLATILE ORGANIC COMPOUNDS (VOCs) (EPA Method 8260)							
Acetone	ug/L (ppb)	700	ND / < 10.0				ND / < 10.0
Bromodichloromethane	ug/L (ppb)	80	ND / < 0.5				ND / < 0.5
Chloroform	ug/L (ppb)		ND / < 1.0				ND / < 1.0
2-Butanone	ug/L (ppb)	4200	ND / < 10.0				ND / < 10.0
Tetrachloroethene	ug/L (ppb)	5	ND / < 1.0				ND / < 1.0
TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS (EPA Method 8015B)							
TPH-DRO	mg/L (ppm)						

NOTES:
1. ND = not detected above any of the estimated reporting limits.
2. VGES = Vermont Groundwater Enforcement Standards, February 2005.
3. Results reported above the method detection limit are indicated in bold.
5. Shaded results are above guideline.
6. NA = Compound not analyzed

TABLE 3.0
Sump Flow Data
Young Residence
28 N. William Street, Burlington, VT

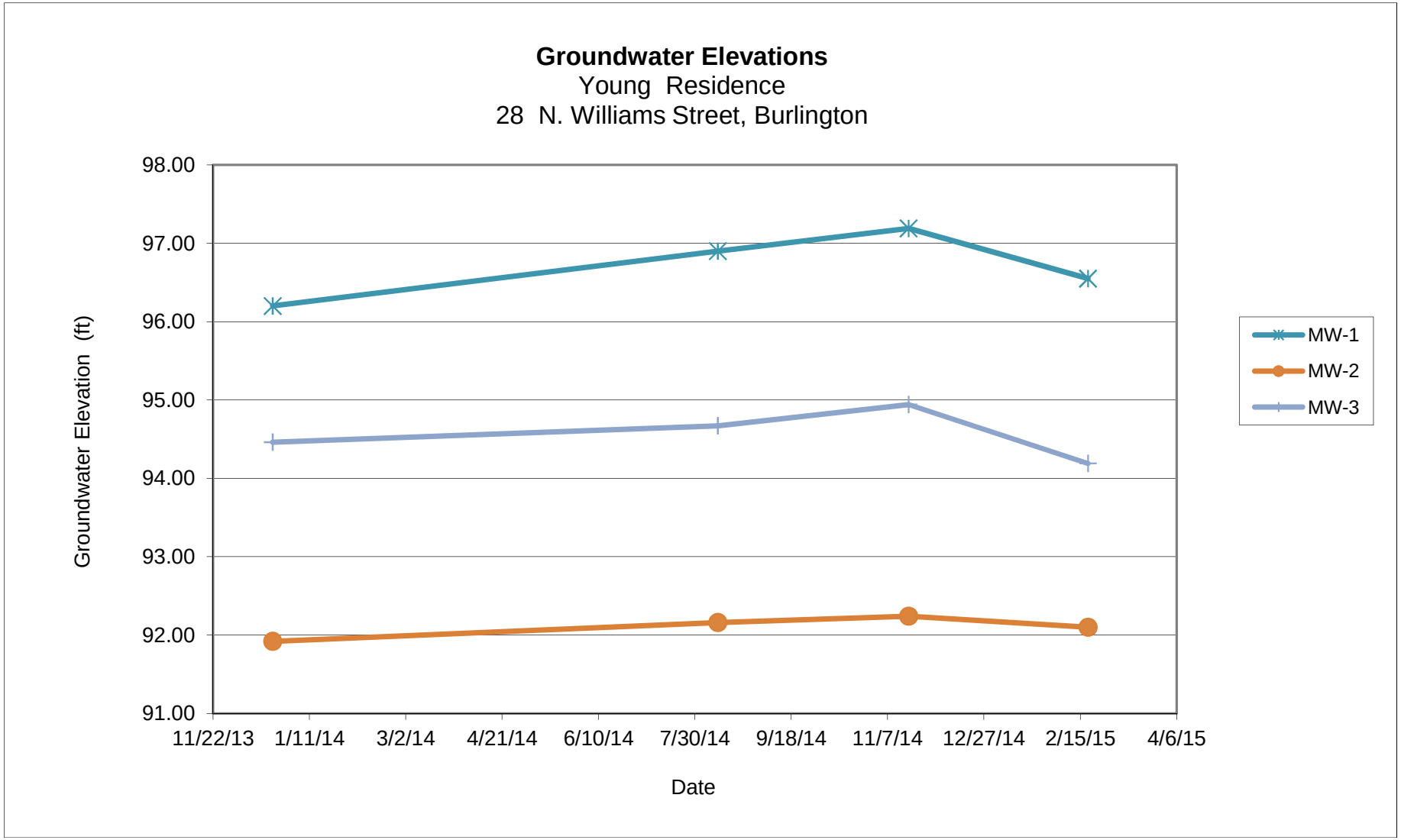
Gallons per kW-h (approximate):
Sump N: **1900**
Sump S: **1800**

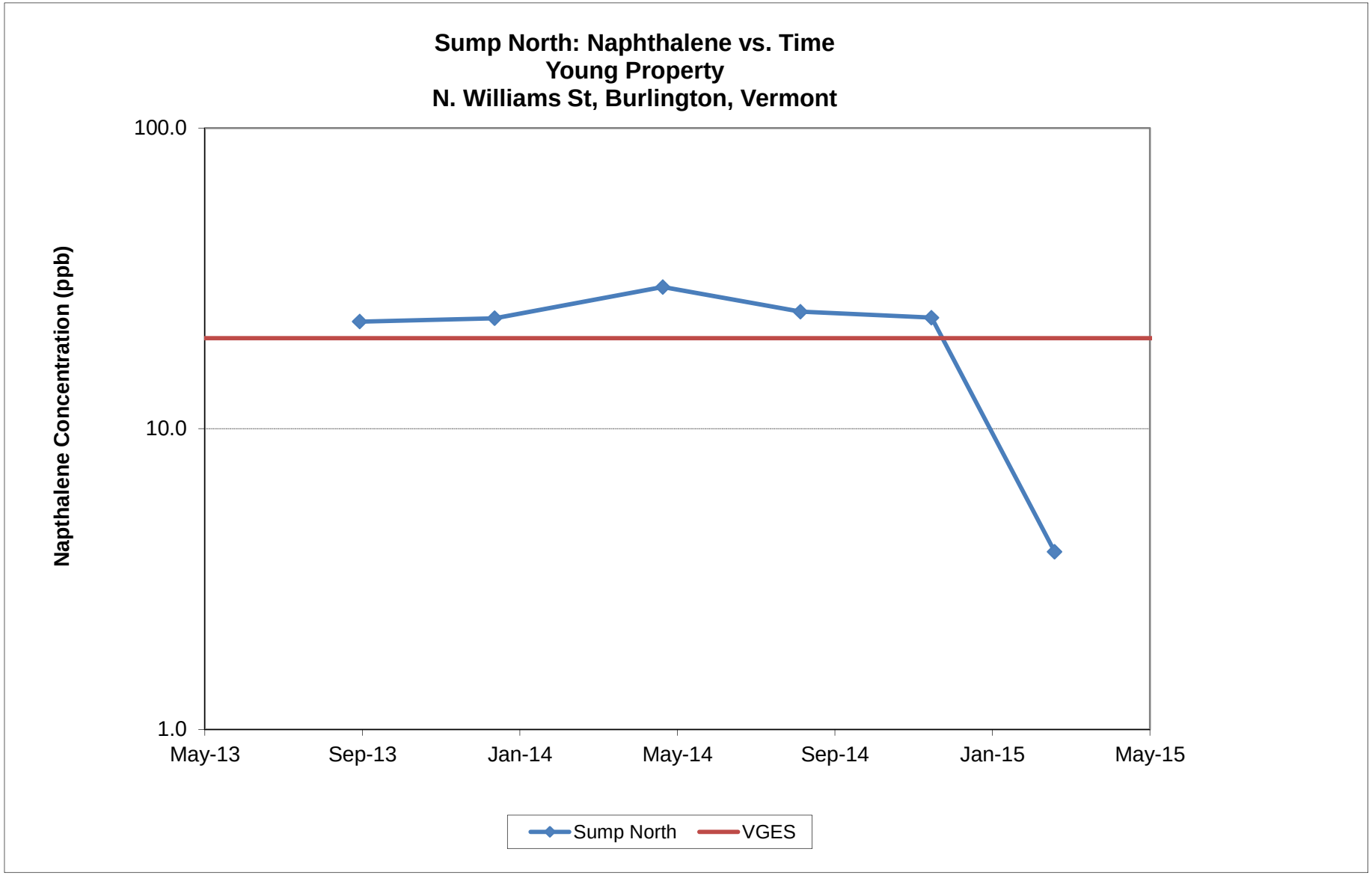
Location	Date	Time	Meter reading kW-h	Gallons Pumped per Cycle	Gallons Pumped Cumulative	Hours elapsed		GPD		Sample Collected?
						Since Previous Reading	Since Meter Installation	Since Previous Reading	Since Meter Installation	
Meter installed	4/21/2014	12:00	0.00	0	0	0	0			no
Sump N	4/29/2014	10:00	0.52	988	988	190	190	124.80	124.80	yes
Sump N	5/8/2014	17:30	1.14	1,178	2,166	224	413	126.50	125.72	no
Sump N	8/11/2014	12:00	7.20	11,514	13,680	2,275	2,688	121.49	122.14	yes
Sump N	11/18/2014	9:30	13.53	12,027	25,707	2,374	5,062	121.61	121.89	yes
Sump N	2/19/2015	16:05	19.59	11,514	37,221	2,239	7,300	123.44	122.37	yes
Meter installed	4/21/2014	12:00	0.00	0	0	0	0			no
Sump S	4/29/2014	10:00	0.04	72	72	190	190	9.09	9.09	yes
Sump S	5/8/2014	17:30	0.09	90	162	224	413	9.66	9.40	no
Sump S	8/11/2014	12:00	0.33	432	594	2,275	2,688	4.56	5.30	yes
Sump S	11/18/2014	9:30	0.46	234	828	2,374	5,062	2.37	3.93	yes
Sump S	2/19/2015	16:10	0.67	378	1,206	2,239	7,300	4.05	3.96	yes
				TOTAL	38,427				127.45	

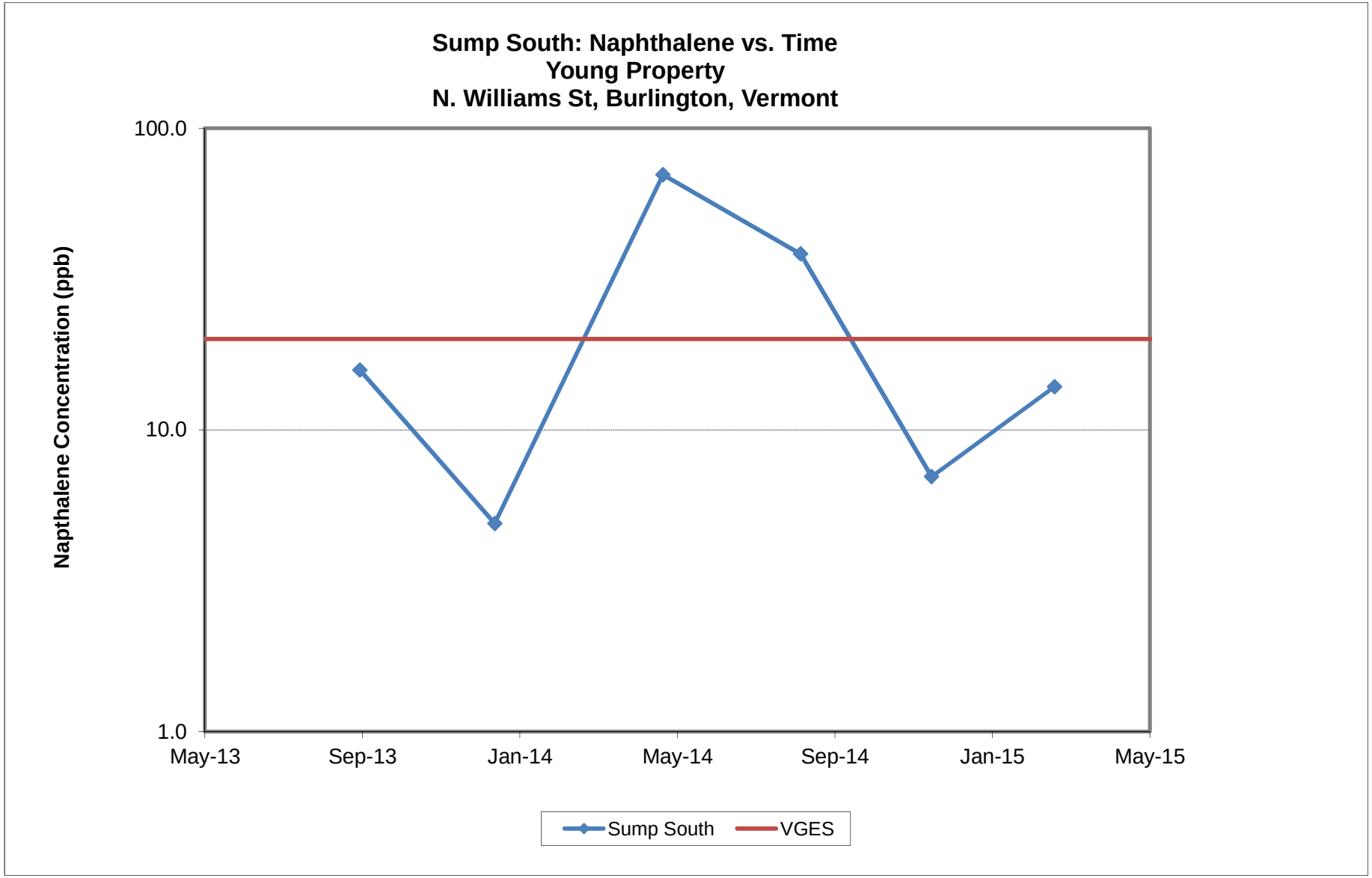
TABLE 4.0
Quality Assurance / Quality Control Data
Young Residence
28 N. Williams Street, Burlington, Vermont

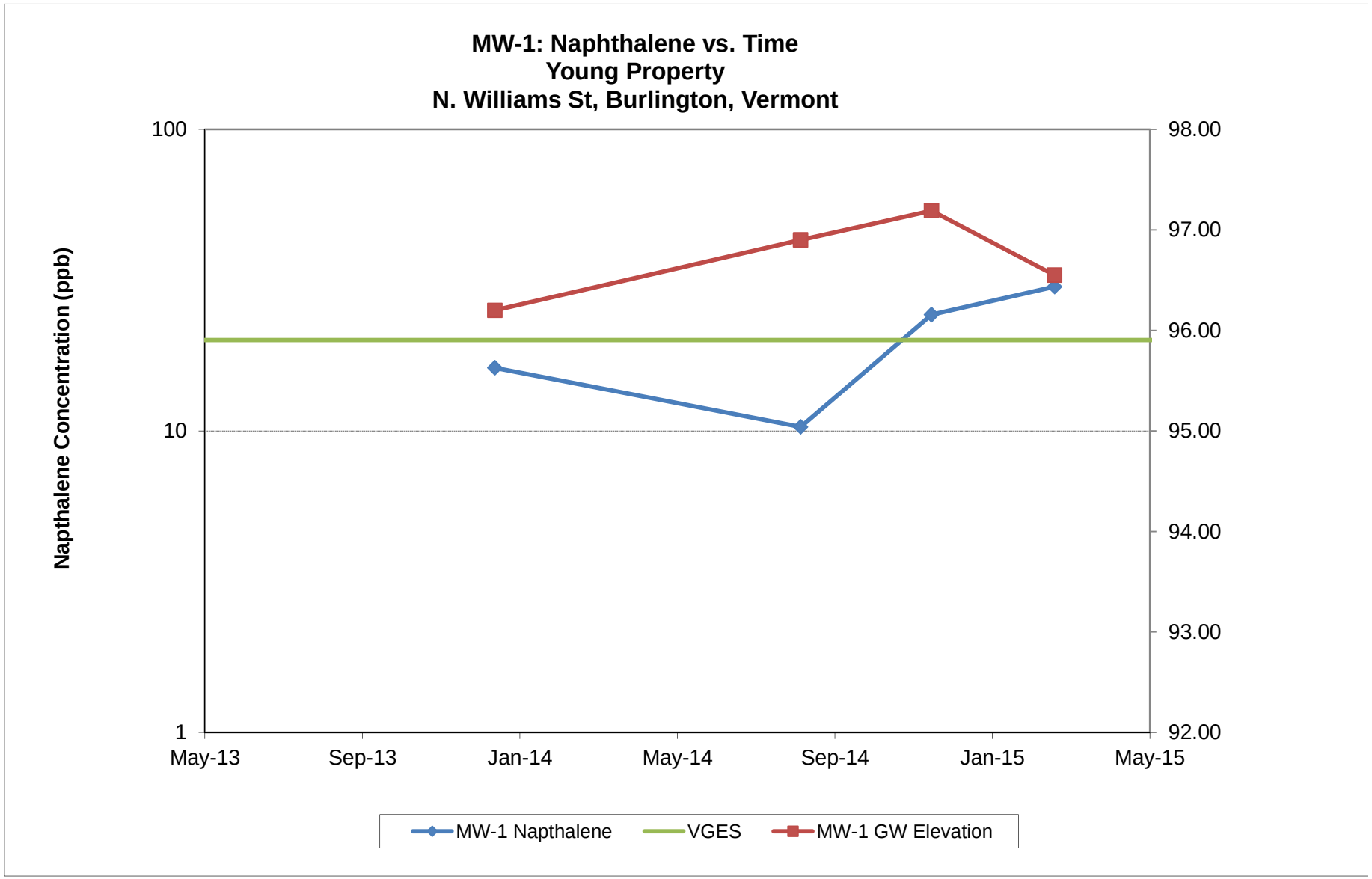
Sample Location		Trip Blank	MW-1	Duplicate	RPD
Sample Date		2/19/2015	2/19/2015	2/19/2015	
Benzene	ug/L (ppb)	ND / 1.0	**5.1**	**4.8**	**6.1**
Toluene	ug/L (ppb)	ND / 1.0	**1.0**	**1.1**	**-9.5**
Ethylbenzene	ug/L (ppb)	ND / 1.0	**16.8**	**15.4**	**8.7**
Xylenes	ug/L (ppb)	ND / 2.0	**42.1**	**40.8**	**3.1**
1,3,5-Trimethylbenzene	ug/L (ppb)	ND / 2.0	**9.7**	**10.5**	**-7.9**
1,2,4-Trimethylbenzene	ug/L (ppb)	ND / 2.0	**26.5**	**29.9**	**-12.1**
Naphthalene	ug/L (ppb)	ND / 2.0	**30.1**	**39.4**	**-26.8**
MTBE	ug/L (ppb)	ND / 2.0	ND / 2.0	ND / 2.0	NA

Notes:
1. The results of the laboratory analysis of the duplicate sample were analyzed using a relative percent difference (RPD) analysis. The RPD is defined as 100 times the difference in reported concentration between sample and duplicate, divided by the mean of the two samples. A small RPD indicates good correlation between sample and duplicate. RPD values cannot be calculated ("na") for undetected


Groundwater Elevations
Young Residence
28 N. Williams Street, Burlington
98.00
97.00
96.00
95.00
94.00
93.00
92.00
91.00
Groundwater Elevation (ft)
11/22/13
1/11/14
3/2/14
4/21/14
6/10/14
7/30/14
9/18/14
11/7/14
12/27/14
2/15/15
4/6/15
Date
MW-1
MW-2
MW-3


Sump North: Naphthalene vs. Time
Young Property
N. Williams St, Burlington, Vermont
Napthalene Concentration (ppb)
100.0
10.0
1.0
May-13
Sep-13
Jan-14
May-14
Sep-14
Jan-15
May-15
Sump North
VGES


Sump South: Naphthalene vs. Time
Young Property
N. Williams St, Burlington, Vermont
Napthalene Concentration (ppb)
100.0
10.0
1.0
May-13
Sep-13
Jan-14
May-14
Sep-14
Jan-15
May-15
Sump South
VGES


MW-1: Naphthalene vs. Time
Young Property
N. Williams St, Burlington, Vermont
Napthalene Concentration (ppb)
100
10
1
98.00
97.00
96.00
95.00
94.00
93.00
92.00
May-13
Sep-13
Jan-14
May-14
Sep-14
Jan-15
May-15
MW-1 Napthalene
VGES
MW-1 GW Elevation

APPENDIX 3

LABORATORY REPORTS

ENDYNE Inc.
Environmental Laboratories

Laboratory Report

WaiteHeindel Environmental Mgt	100675
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: Young Residence
WORK ORDER: **1502-03064**
DATE RECEIVED: February 19, 2015
DATE REPORTED: March 02, 2015
SAMPLER: CP

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: Young Residence
REPORT DATE: 3/2/2015

WORK ORDER: **1502-03064**
DATE RECEIVED: 02/19/2015

TEST METHOD: EPA 8260C

001 Site: Trip Blank Date Sampled: 2/19/15 12:00 Analysis Date: 2/27/15 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	2.5	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	N		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	106	%	N	
Surr. 2 (Toluene d8)	100	%	N		Surr. 3 (4-Bromofluorobenzene)	94	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: Young Residence
REPORT DATE: 3/2/2015

WORK ORDER: **1502-03064**
DATE RECEIVED: 02/19/2015

TEST METHOD: EPA 8260C

002 Site: MW-1 Date Sampled: 2/19/15 15:59 Analysis Date: 2/27/15 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	11.3	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	N		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	5.1	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	16.8	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	42.1	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	2.4	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	2.6	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	9.7	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	26.5	ug/L	A		s-Butylbenzene	1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	30.1	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	105	%	N	
Surr. 2 (Toluene d8)	99	%	N		Surr. 3 (4-Bromofluorobenzene)	94	%	N	
Unidentified Peaks	>10		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: Young Residence
REPORT DATE: 3/2/2015

WORK ORDER: **1502-03064**
DATE RECEIVED: 02/19/2015

TEST METHOD: EPA 8260C

003 Site: MW-2 Date Sampled: 2/19/15 15:20 Analysis Date: 2/27/15 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	22.5	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	4.4	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	N		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	102	%	N	
Surr. 2 (Toluene d8)	95	%	N		Surr. 3 (4-Bromofluorobenzene)	85	%	N	
Unidentified Peaks	2		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: Young Residence
REPORT DATE: 3/2/2015

WORK ORDER: **1502-03064**
DATE RECEIVED: 02/19/2015

TEST METHOD: EPA 8260C

004 Site: MW-3 Date Sampled: 2/19/15 15:46 Analysis Date: 2/26/15 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	N		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	104	%	N	
Surr. 2 (Toluene d8)	100	%	N		Surr. 3 (4-Bromofluorobenzene)	101	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: Young Residence
REPORT DATE: 3/2/2015

WORK ORDER: **1502-03064**
DATE RECEIVED: 02/19/2015

TEST METHOD: EPA 8260C

005 Site: Sump N Date Sampled: 2/19/15 16:05 Analysis Date: 2/27/15 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	N		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	7.2	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	6.2	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	3.1	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	3.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	3.5	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	12.8	ug/L	A		s-Butylbenzene	2.5	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	3.9	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	106	%	N	
Surr. 2 (Toluene d8)	102	%	N		Surr. 3 (4-Bromofluorobenzene)	101	%	N	
Unidentified Peaks	>10		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: Young Residence
REPORT DATE: 3/2/2015

WORK ORDER: **1502-03064**
DATE RECEIVED: 02/19/2015

TEST METHOD: EPA 8260C

006 Site: Sump S Date Sampled: 2/19/15 16:10 Analysis Date: 2/27/15 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	N		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	11.8	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	13.2	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	4.5	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	4.8	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	3.9	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	16.1	ug/L	A		s-Butylbenzene	2.4	ug/L	N	
4-Isopropyltoluene	1.3	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	13.9	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	107	%	N	
Surr. 2 (Toluene d8)	101	%	N		Surr. 3 (4-Bromofluorobenzene)	97	%	N	
Unidentified Peaks	>10		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: Young Residence
REPORT DATE: 3/2/2015

WORK ORDER: **1502-03064**
DATE RECEIVED: 02/19/2015

TEST METHOD: EPA 8260C

007 Site: Duplicate Date Sampled: 2/19/15 12:00 Analysis Date: 2/27/15 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	11.7	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	N		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	4.8	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	1.1	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	15.4	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	40.8	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	2.6	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	2.8	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	10.5	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	29.9	ug/L	A		s-Butylbenzene	1.5	ug/L	N	
4-Isopropyltoluene	1.5	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	39.4	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	107	%	N	
Surr. 2 (Toluene d8)	104	%	N		Surr. 3 (4-Bromofluorobenzene)	105	%	N	
Unidentified Peaks	>10		U						

ENDYNE, INC.

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

73412

Special Reporting Instructions/PO#: _____

Project Name: Young Residence	Client/Contact Name: Chris Page	Sampler Name: C. Page
State of Origin: VT X NY __ NH __ Other __	Phone #: WHEM x104	Phone #: WHEM x104
Endyne WO # 1502-032064	Mailing Address: WHEM	Billing Address: WHEM

Sample Location	Matrix	GRAB	COMP	Date/Time Sampled	Sample Containers No.	Sample Containers Type/Size	Sample Preservation	Analysis Required	FieldResults/Remarks	Due Date
Trip Blank	H2O	X		2/19/15 17:00	2	40ml	HCl	19		
MW-1				1559	1	40ml	HCl	19		
MW-2				1520	1					
MW-3				1546	2					
Sump N				1605	2					
Sump S				1610	2					
Dup				—	2					

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
	12/19/15 17:30				2/19/15 1730

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH Only
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	8081 Pest
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	8082 PCB
4	Nitrite N	9	BOD	14	Turbidity	(19)	VT PCF	24	8260B	29	PP13 Metals
5	Nitrate N	10	Alkalinity	15	Conductivity	20	VOC Halocarbons	25	8270 B/N or Acid	30	Total RCRA8
31	Metals (Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Tl, U, V, Zn										
32	TCLP (volatiles, semi-volatiles, metals, pesticides, herbicides)					33	Other				
34	Corrosivity	35	Ignitability	36	Reactivity	37	Other				
38	Other										

LAB USE ONLY
Delivery: Client
Temp: 1.5°C
Comment:

Analysis switched to NH60 per phone call with Chris Page. LMH 2-20-15

(White - Laboratory / Yellow - Client)

APPENDIX 4

BASEMENT INVENTORY

William and Sally Young
Inventory of Cellar
March 8, 2015

On this date we inventoried our cellar for any items that might be a source of contamination of air. We only included those things that might be a source, and did not include the bulk of the cellars contents, which are largely such things as stored clothes and bedding, hiking and hunting equipment, food, alcohol, paper supplies, etc. Some of the cleaning supplies we have are from our family camp – we store them during the winter here.

We did find that we had more questionable things than we realized. I have put an asterisk next to the ones that we intend to dispose of at the Hazardous Waste recycle facility, regardless of the issue that prompted this inventory (some can just be stored out in our garden shed). We will consult with Waite-Heindel to identify any other questionable products that should be added to the list prior to disposal.

The following is what we found. Since some products don't identify contents and we have little expertise in this area anyway, we listed everything that could remotely be considered of interest.

Oxiclean
Bounce
Clorax
Fulsol
Febreze
Scotchgard
Carbona

Tide
All
Tide Advance
Swiffer Sweeper Pads
Mouthwash-Scope
Brasso
Woolite
Wright's Brass Polish
Canned Sterno Fuel*
Quick Dip Silver Clean
Lamp Oil*
Lysol
Shout
Clorox Disinf. Wipes
Hair Spray
Soft Scrubs

AirConditioner (stored when not in use)
5 gallons of latex paint – some have been open*
Some hanging clothes/other that have been dry cleaned (in most cases long time ago)

Pledge

Seventh Generation All Purpose Cleaner
Old English Furniture Polish
The Works Toilet Bowl Cleaner
Dish soap
Dawn
Handsanitizer
Handsoap
Bleach-chlorine free
Dissolve
Dial hand soap
Mr. Clean
Castile Soap

Small Propane Camp Stove w/ gas canister*
Batteries-Everyready
Benzomatic Tool- gas*

Shotgun Shells
Gun Cleaning Solvent and oil, some liquid some spray containers
Spray paint-7 cans

3 in 1 Oil
Super Sealer
Best Test Paper Cement
Super Glue
Rustoleum spray*
Hornet, Black Flag & Ortho wasp sprays
WD40 large spray can*
DeRusto Decorative Enamel*

More paint – opened: latex, waterbase floor adhesive, Rust No More Metal Primer, Sheet Rock joint Compound*
Kerosene Lamp w/ oil in it*
Safer Soap (yard and garden Insect Killer
Insecticide Soap
Schultz Cactus – liquid plant food

Crano
Carbona Spot Remover
Systemic ??
House Plant Garden Spray
Revenge Ant Killer
Polyurethane Minwax – Sealer
Dcon rat poison*
Unknown spray can labeled in hand writing (not ours) “Very Poisonous)**

2 fire extinguishers – not up to date
Cutter insect spray, ShooBug repellant (kid friendly), bag of Skin So Soft & sun tan lotions