

**GROUNDWATER QUALITY  
AT DOWN-GRADIENT PROPERTY BOUNDARIES;  
NEWSVT  
SOLID WASTE MANAGEMENT FACILITY**

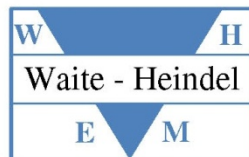
**Coventry, Vermont**

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## **1.0 INTRODUCTION**

Groundwater quality was evaluated at the down-gradient (north and west) property boundaries of the NEWSVT Solid Waste Management Facility in Coventry, Vermont from February 2013 through July 2014, by the installation of monitoring wells along these property boundaries, followed by lab analyses of groundwater samples. Groundwater flow directions between the NEWSVT landfill facilities and the property boundaries were determined by evaluating groundwater elevations as measured in the monitoring wells on each sampling date.

## **2.0 MONITORING WELLS**

Nine new monitoring wells were installed in the Black River Wetlands along the north and west property boundaries in 2013 and 2014. See well locations and well logs in the Appendices. The eight shallow monitoring wells (MW-BRW-3S through 10S) were installed by hand to depths ranging from 5 to 10 feet; MW-BRW-3D was installed by drill rig to 44 ft. BGS.

Four other monitoring wells were also used to evaluate groundwater flow directions and quality in the vicinity of the NEWSVT property boundaries: two groundwater quality sampling wells that had previously been installed in the center of the wetland (MW-BRW-1 and BRW-2R [“R” meaning “replacement”]; this well was replaced with an in-kind well when the original well was damaged by ice]; and two shallow gas-probe wells that were amenable to groundwater sampling (GP-1 and GP-2R).

## **3.0 GROUNDWATER ELEVATIONS AND FLOW DIRECTIONS**

Groundwater samples were collected on multiple dates from these monitoring wells, for laboratory analysis for inorganic parameters, and one round each for analysis for VOCs and SVOCs. No further VOC/SVOC samples or analyses were conducted because lab results in the BRW-series wells were all non-detected for these parameters. The sampling procedure for MW-BRW-3 through 10 was low-flow methodology, and for BRW-1 and 2R was by bailer due to severe cold temperatures and/or recharge rates being too slow.

Lab results are summarized in the table in the Appendices; individual summary tables for each well are included, in addition to the lab reports (in the interests of reducing report length, the QA sample results and Chains of Custody have been deleted; they can be provided on request).



## Groundwater Elevation Measurements

Groundwater depths were measured in each sampling round, and those data were converted to elevations using top-of-well elevation data provided by the project engineer and surveyor. Elevation data are given in the Appendices, and are used to produce the groundwater elevation contours on the Site Plans.

## Groundwater Elevations

Groundwater elevations were plotted on Site Plans provided by Sanborn Head Assocs. (project engineers), for two dates for which almost all of the monitoring wells were in place and could be measured:

- March 2014 (range of dates in the month), reflecting higher (shallower) groundwater levels;
- May 2014 (5<sup>th</sup> through 8<sup>th</sup>), reflecting lower (deeper) groundwater levels.

Groundwater elevation contours were then drawn, using these elevation data. Groundwater elevation were tied into Black River elevation data, which are highly accurate only at the Airport Road bridge measuring point, and at the oxbow in the river near MW-BRW-2R, based on a same-day survey of these two river-surface points in 2013 by the project surveyors. River elevations further upstream were extrapolated by assuming the same river gradient, and measuring “river distance” upstream from the bridge. So the river elevations on the Site Plans at the locations adjacent to MW-BRW-7S, 8S and 10S may not be accurate.

## Groundwater Flow Directions

Based on the groundwater elevation contours described above, groundwater flow directions can be estimated by drawing flow arrows which cross elevation contours at right angles. These flow direction arrows are shown in blue on the Site Plans.

These groundwater flow directions indicate that the monitoring wells close to Airport Road (BRW-3S, 3D, GP-2R, GP-4), and adjacent to the northeast property line (BRW-4S and 5S -- adjacent to the Gamache property) are not down-gradient of the landfill facilities. Groundwater flow directions also indicate that BRW-10S is not down-gradient of landfill facilities. These 6 wells are therefore considered to be upgradient or side=gradient of the landfill facilities.

There are 6 wells that appear to be downgradient of the landfill facilities: BRW-1, 2R, 5S, 6S, 8S and 9S. The hydrogeologic status of BRW-7S is uncertain – it appears that it may not be in the



flowpath from the landfill facilities due to the shape of the groundwater elevations in the very flat wetland in its vicinity.

#### **4.0 GROUNDWATER SAMPLING RESULTS**

As indicated in the water quality summary tables, Iron and Manganese are found at high concentrations throughout the Black River Wetlands, far exceeding their Groundwater Enforcement Standards (GESs) – as is typical in many wetlands in the Northeast. Arsenic was also detected in most of the wells, although generally well below its GES – this is also not unusual in wetland groundwater. No other metals or inorganic parameters exceeded their GESs. No organic chemicals were detected in the wetland wells. A summary of the GES-exceeding concentrations is as follows:

Upgradient and Side-Gradient Wetland Wells: Discounting the elevated results from GP-2R and GP-4 (these are shallow wells very near Airport Road, not routinely sampled for groundwater and therefore possibly stagnant), the averages of the 4 upgradient/side-gradient concentrations (expressed as Total, not Dissolved) exceed the GESs for Iron and Manganese quite substantially, but not for Arsenic:

- Iron: 3.0 mg/L (GES = 0.30 mg/L).
- Manganese: 0.20 mg/L (Primary GES = 0.05 mg/L).
- Arsenic: 4.1 ug/L (GES = 10 ug/L).

Downgradient Wetland Wells: Discounting the anomalously high Arsenic values in BRW-9S (a topic of separate discussion later in the report), the averages of the 7 down-gradient wells (including 7S) exceed the up-gradient wetland well concentrations of Iron and Manganese (and their GESs) but not the average upgradient Arsenic concentration:

- Iron: 18.2 mg/L.
- Manganese: 1.7 mg/L.
- Arsenic: 3.2 ug/L.

Sources of Elevated Iron and Manganese Concentrations in Groundwater in Black River Wetlands: The source(s) of the elevated iron and manganese concentrations is most likely to be the reducing environment that is created by the natural anaerobic conditions in the groundwater in the wetlands.



Evidence of Naturally Reducing (Anaerobic) Conditions in Wetlands:

Low-flow sampling procedures include the collection of physical parameters which provide an indication of aerobic versus anaerobic conditions in the groundwater being sampled. An overview of these pertinent field parameters from the 4 rounds of sampling in the wetland wells, and the 4 most recent samples in the wells downgradient of unlined Areas A and B (see summary table below) shows anaerobic conditions but slightly alkaline pH values in the immediate vicinity of unlined Areas A and B (A, B, D, P-series wells). The down-gradient wells in the wetland adjacent to the NEWSVT property boundary show lesser degrees of anaerobic conditions but substantially lower pH (acidic) values, reflecting typical natural wetland characteristics. For comparison, three upgradient wells in upland surficial materials show stronger aerobic conditions.

	Representative Values:			
	D.O.	ORP	pH	Turbidity
Group of Monitoring Wells	Mg/L	mV	s.u.	NTU
Edge of Unlined A & B (MWs in series A, B, D, P)	0.3 – 0.7	- 100	7.5 – 8.0	10 - 50
Wetland Wells (BRW-1 to 10)	0.5 – 1.0	+ 20 to + 80	6.0	20 – 50
Typical Upland Wells (MW-103, 705, 804-SR)	1.0	+ 50	7.5	10

Lined Cells Not Source: The lined landfill cells (Phases 1 and 2 are the closest to the north wetlands) are not likely sources, since they are double-lined. Samples of secondary leachate from Phases 1 and 2 were collected in April 2013, and showed Iron and Manganese concentrations generally lower than the downgradient wetland wells as follows:

Secondary Leachate, Phases 1 and 2, April 2013 (Avg. / Ph-1 / Ph-2):

- Iron: **5.8 mg/L** / 11 mg/L / 0.64 mg/L.
- Manganese: **6.4 mg/L** / 0.74 mg/L / 12 mg/L.
- The two Arsenic concentrations are widely varying, and so are not reliable for comparison purposes (P-1 = 61 ug/L; P-2 = ND < 1 ug/L).

In addition, as described earlier, there are no indications of organic chemicals in the near-boundary compliance wells, such as would be typically elevated in groundwater that is impacted by solid waste leachate.

Unlined Areas A and B: Groundwater that has been impacted by the buried solid waste in and adjacent to Unlined Areas A and B, and by the other industrial activities that occurred in this area since the 1960s +/- (stored vehicles, vehicle salvage building, vehicle crusher, tire stockpile), has been affecting the groundwater quality since then at the edge of the Black River wetlands, as indicated by the elevated concentrations in the monitoring wells immediately adjacent to these



unlined cells (Iron ranges from 2 to 60 mg/L; Manganese ranges from 0.2 to 2.6 mg/L; Arsenic ranges from 20 to 730 ug/L).

Elevated Arsenic in MW-BRW-9S: Arsenic concentrations are elevated in MW-BRW-9S, higher than the other wetland wells (average of the 4 samples is 45.8 ug/L). There is no obvious source for this arsenic that our field personnel have noticed. The three other groundwater monitoring well in this general area (E-1, 103 and 805-S; all located far up-gradient from BRW-9S, on the slopes below the Phase IV lined cells) do not shed much light on a possible explanation for the elevated values in BRW-9S since their Arsenic values vary widely (E-1: 10 to 44 ug/L; 103: 2 to 9 ug/L; 805-S: 5 to 510 ug/L).

## **5.0 CONCLUSIONS**

1. Wetland monitoring wells BRW-1, 2R, 5S, 6S, 8S and 9S appear to be located down-gradient of the solid waste facility operations at NEWSVT. The hydrogeologic status of BRW-7S is uncertain – it appears that it may not be in the flowpath from the landfill facilities due to the shape of the groundwater elevations in the very flat wetland in its vicinity.
2. Wetland monitoring wells BRW-3S, 4S, 5S and 10S are not down-gradient of the landfill facilities.
3. Concentrations of Total Iron and Manganese in the down-gradient groundwater monitoring wells that are located near the north and west NEWSVT boundaries are higher than their respective Groundwater Enforcement Standards (GES). These elevated concentrations are likely due to the anaerobic and reducing conditions in the groundwater in the wetlands due to the natural characteristics of wetlands, as indicated by the low D.O. and pH values. See Conclusion #7.
4. Concentrations of Total Arsenic in these near-boundary monitoring wells generally do not exceed the GES.
5. No Volatile or Semi-Volatile Organic Compounds have been detected in these monitoring wells. These compounds would be expected to be seen in groundwater that is impacted by solid waste leachate.



6. The lack of VOCs or SVOCs, and the low Arsenic concentrations in the near-boundary monitoring wells suggest that the solid waste management facility's operations are not having impacts on groundwater at the property boundary.
7. The elevated Iron and Manganese concentrations in the near-boundary monitoring wells are likely to be caused by the reducing environment that is created by the natural anaerobic conditions in the groundwater in the wetlands, as indicated by the low D.O. and low pH values.
8. The lined landfill cells (Phases 1 and 2 are the closest to the north wetlands) are not likely sources, since they are double-lined. Samples of secondary leachate from Phases 1 and 2 were collected in April 2013, and showed Iron and Manganese concentrations generally lower than in the downgradient wetland wells. No organic chemicals are seen in the near-property boundary wells, as would be expected if those wells were experiencing impacts from leachate from those cells.
9. Groundwater at the edge of the Black River wetlands has been impacted since the 1960s (+/-) by the buried solid waste in and adjacent to Unlined Areas A and B, and by the other industrial activities that occurred in this area, as indicated by the elevated concentrations in the monitoring wells immediately adjacent to these unlined cells (Iron ranges from 2 to 60 mg/L; Manganese ranges from 0.2 to 2.6 mg/L; Arsenic ranges from 20 to 730 ug/L).
10. Arsenic concentrations are elevated in MW-BRW-9S (average 46 ug/L), much higher than in the other wetland wells. There is no obvious source for this elevated arsenic that our field personnel have noticed. The three other groundwater monitoring well in this general area (E-1, 103 and 805-S; all located far up-gradient from BRW-9S, on the slopes below the Phase IV lined cells) do not shed much light on a possible explanation for the elevated values in BRW-9S since their Arsenic values vary widely.

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Groundwater Quality Compliance - GWPRS\Groundwater Quality Compliance Report Sept. 2014\  
Groundwater Quality at DownGradient Property Boundaries, NEWSVT - Report, WHEM 9-19-2014.docx



# **APPENDIX A**

**NEWSVT Landfills**

**Coventry, Vermont**

**Black River Wetland Wells:**

**Recent Groundwater Analyses of Parameters Exceeding Groundwater Enforcement Standards**

			AVERAGE VALUES IN PERIOD OF RECORD		
			Total Arsenic (ug/L)	Total Iron (mg/L)	Total Manganese (mg/L)
	VT GES [1]		10.0	0.30	0.05
	VT Preventive Action Level [1]		1.0	0.15	0.025
	VT Health Advisory [2]		None	0.30	0.05
	Federal MCL [2]		10	None	None
Well	Period of Record	n			
<b>UPGRADIENT, SIDE-GRADIENT WELLS IN AND NEAR BLACK RIVER WETLANDS</b>					
GP-2R	5/9/2013	1	21.0	28.0	3.1
GP-4	8/2/2013	1	< 20	19.0	0.5
BRW-3S	5/21/13 - 5/7/14	9	< 1	0.1	0.1
BRW-3D	9/25/13 - 5/7/14	4	13.0	1.3	0.1
BRW-4S	3/12/14 - 6/5/14	4	< 1	3.9	0.3
BRW-10S	5/6/14 - 7/7/14	4	1.3	6.6	0.4
<b>Averages (Up-grad, Side-grad):</b>			<b>9.6</b>	<b>9.8</b>	<b>0.7</b>
<b>Without GP-2R, GP-4 (very shallow wells near road):</b>			<b>4.1</b>	<b>3.0</b>	<b>0.2</b>
<b>DOWN-GRADIENT WELLS IN BLACK RIVER WETLAND, NEAR PROPERTY LINES:</b>					
BRW-1	2/5/13 - 2/24/14	2	2.0	34.5	1.1
BRW-2R	2/5/13 - 2/24/14	2	2.0	4.1	0.2
BRW-5S	3/12/14 - 5/5/14	4	2.5	17.0	1.1
BRW-6S	3/12/14 - 5/5/14	4	4.8	15.3	0.9
? BRW-7S ? [3]	3/12/14 - 5/5/14	4	4.5	25.5	1.6
BRW-8S	3/12/14 - 5/5/14	4	3.3	20.0	2.8
BRW-9S	3/12/14 - 5/5/14	4	45.8	10.8	3.9
<b>Averages, Down-gradient Wells near Property Lines:</b>			<b>9.3</b>	<b>18.2</b>	<b>1.7</b>
<b>Without BRW-9S Arsenic value (anomalous):</b>			<b>3.2</b>		

**Notes:**

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy, 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from Dec. 2002 VT Dept. Health Drinking Water Guidance.

[3] BRW-7S may not be down-gradient of the landfill, based on groundwater elevations and estimated flowpaths

" < " means not detected to the detection limit shown.

**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

Well	Date	Lab	Remarks	Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
MW-BRW-1	3/10/2005	Endyne	see note [a]	<b>4</b>	< 3	< 10	< 0.010	< 2	46	<b>1.04</b>	<b>0.962</b>	< 1	< 2.50	< 0.010	<b>26.2</b>	0.046	<b>1.04</b>	<b>0.962</b>	< 0.020
	3/16/2006	Endyne	see note [c]	< 2	< 2	< 10	< 0.010	< 1	< 20	<b>1.25</b>	<b>1.14</b>	< 1	< 2.50	< 0.010	<b>38.9</b>	<b>3.47</b>	<b>1.25</b>	<b>1.14</b>	< 0.020
	2/6/2007	Endyne	see note [e]	< 2	< 2	22	< 0.020	< 1	< 20	<b>1.16</b>	<b>1.18</b>	< 1	< 2.50	< 0.020	<b>36.3</b>	<b>33.40</b>	<b>1.16</b>	<b>1.18</b>	< 0.020
	2/12/2008	Endyne	see note [g]	< 2	< 2	< 20	0.029	< 1	< 20	<b>1.20</b>	<b>1.10</b>	< 1	< 5.0	0.029	<b>44</b>	<b>26.00</b>	<b>1.20</b>	<b>1.10</b>	< 0.020
	2/3/2009	Endyne	see note [i]	<b>3</b>	< 2	< 20	< 0.020	< 1	< 20	<b>1.10</b>	<b>1.10</b>	< 1	< 2.5	< 0.020	<b>38</b>	<b>30.00</b>	<b>1.10</b>	<b>1.10</b>	< 0.020
	2/10/2010	Endyne	see note [k]	<b>2</b>	< 2	< 5	< 0.020	< 1	8	<b>0.80</b>	<b>0.86</b>	< 0.2	2.7	< 0.020	<b>25</b>	<b>22.00</b>	<b>0.80</b>	<b>0.86</b>	0.011
	2/8/2011	Endyne	see note [m]	<b>11</b>	< 2	<b>68</b>	0.360	<b>3</b>	<b>55</b>	<b>1.30</b>	<b>1.00</b>	< 0.2	< 2.5	< 0.360	<b>62</b>	<b>32.0</b>	<b>1.30</b>	<b>1.00</b>	0.024
	2/8/2012	Endyne	see note [o]	<b>4</b>	< 2	< 25	< 0.020	<b>3</b>	14	<b>0.92</b>	<b>0.89</b>	< 0.2	< 2.5	< 0.020	<b>34</b>	<b>23.0</b>	<b>0.92</b>	<b>0.89</b>	0.024
	2/5/2013	Endyne	see note [q]	< 1	< 2	< 5	< 0.020	< 1	< 5	<b>0.92</b>	<b>0.94</b>	< 0.2	3.4	< 0.020	<b>31</b>	<b>27.0</b>	<b>0.92</b>	<b>0.94</b>	0.020
	2/24/2014	Endyne	see note [s]	<b>3</b>	< 2	< 5	< 0.020	< 1	6	<b>1.20</b>	<b>1.10</b>	< 0.2	< 2.5	< 0.020	<b>38</b>	<b>35.0</b>	<b>1.20</b>	<b>1.10</b>	< 0.020
	<b>Averages, 2013 &amp; 2014:</b>			<b>2.0</b>											<b>34.5</b>		<b>1.06</b>		
	See notes [3] and [4] below. Normal Distribution?			Yes		Yes	No	Yes	Yes	Yes			Yes	Yes	Yes	Yes			
	Transformation Closest to Normal						Yes												
	Does Transformation Produce Normality?						Exp												
	Mean of Transformed Data						6.661												
	Mean of Untransformed Data			3.40		19.00		21.40	1.09	1.03			37.34	23.19	1.09	1.03			
	Std. Dev. of Transformed Data						7.23												
	Std. Dev. of Untransformed Data			2.84		18.85		16.61	0.16	0.11			10.46	12.09	0.16	0.11			
	n			10		10		10	10	10			10	10	10	10			
	Student's t-value (one-tailed)			1.80		1.80		1.80	1.80	1.80			1.80	1.80	1.80	1.80			
	Upper 95% Confidence Value			5.011		29.706		30.832	1.182	1.090			43.280	30.060	1.182	1.090			
	Lower 95% Confidence Value			<b>1.789</b>		8.294		0.939	<b>0.996</b>	<b>0.964</b>			<b>31.400</b>	<b>16.324</b>	<b>0.996</b>	<b>0.964</b>			

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

\* Bold values exceed Vermont Preventive Action Level

\*\* Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

\*\*\* As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [s]: See last page of inorganic data for footnotes of additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).

Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

				Primary Groundwater Quality Parameters [1]							Secondary Groundwater Quality Parameters [2]								
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
VT GES**[1]				10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
VT Preventive Action Level* [1]				1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
VT Health Advisory [2]				None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
Federal MCL [2]				10	5	100	None	None	None	None	2	None	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-BRW-2	3/10/2005	Endyne	see note [b]	< 2	< 3	< 10	< 0.010	< 2	< 20	<b>0.444</b>	<b>0.445</b>	< 1	2.94	< 0.010	<b>2.80</b>	<b>0.559</b>	<b>0.444</b>	<b>0.445</b>	< 0.020
	3/16/2006	Endyne	see note [d]	< 2	< 2	< 10	< 0.010	< 1	< 20	<b>0.157</b>	<b>0.154</b>	< 1	< 2.50	< 0.010	<b>2.24</b>	<b>0.728</b>	<b>0.157</b>	<b>0.154</b>	< 0.020
	2/6/2007	Endyne	see note [f]	22	< 2	<b>66</b>	0.069	<b>37</b>	<b>98</b>	<b>2.30</b>	<b>0.408</b>	< 1	4.76	< 0.069	<b>52</b>	<b>0.386</b>	<b>2.300</b>	<b>0.408</b>	< 0.199
	2/21/2008	Endyne	see note [h]	< 2	< 2	< 20	< 0.020	< 1	< 20	<b>0.30</b>	<b>0.180</b>	< 1	3.40	< 0.020	<b>4.7</b>	<b>0.830</b>	<b>0.300</b>	<b>0.180</b>	< 0.020
	2/3/2009	Endyne	see note [j]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.065	0.057	< 1	3.20	< 0.020	<b>1.7</b>	0.029	<b>0.065</b>	<b>0.057</b>	0.035
MW-BRW-2R***	2/16/2010	Endyne	see note [l]	<b>2</b>	< 2	< 5	< 0.020	< 1	< 5	<b>0.380</b>	<b>0.380</b>	< 0.2	5.60	< 0.020	<b>2.6</b>	<b>1.100</b>	<b>0.380</b>	<b>0.380</b>	< 0.005
	2/8/2011	Endyne	see note [n]	<b>2</b>	< 2	8	< 0.020	<b>3</b>	8	<b>0.240</b>	<b>0.180</b>	< 0.2	< 2.50	< 0.020	<b>4.6</b>	<b>0.630</b>	<b>0.240</b>	<b>0.180</b>	< 0.020
	2/8/2012	Endyne	see note [p]	< 1	< 2	< 5	< 0.020	< 1	< 5	<b>0.150</b>	<b>0.150</b>	< 0.2	< 2.50	< 0.020	<b>2.1</b>	<b>0.890</b>	<b>0.150</b>	<b>0.150</b>	< 0.020
	2/5/2013	Endyne	see note [r]	<b>2</b>	< 2	11	< 0.020	<b>4</b>	10	<b>0.170</b>	0.140	< 0.2	< 2.50	< 0.020	<b>5.8</b>	<b>1.300</b>	<b>0.170</b>	<b>0.140</b>	< 0.020
	2/24/2014	Endyne	see note [t]	<b>2</b>	< 2	< 5	< 0.020	< 1	6	0.130	0.120	< 0.2	< 2.50	< 0.020	<b>2.3</b>	<b>1.400</b>	<b>0.130</b>	<b>0.120</b>	< 0.020
<b>Averages, 2013 &amp; 2014:</b>				<b>2.0</b>											<b>4.050</b>		<b>0.150</b>		
See notes [3] and [4] below.																			
Normal Distribution?				No		Yes	No	No	Yes	Yes			No	Yes	Yes	Yes			
Transformation Closest to Normal				Ln			Ln	Ln					Ln						
Does Transformation Produce Normality?				No			Yes	Yes					Yes						
Mean of Transformed Data				0.861			0.679	2.60					1.369						
Mean of Untransformed Data						16.00			0.43	0.22						0.79	0.43	0.22	
Std. Dev. of Transformed Data				0.81			1.16	0.92						0.99					
Std. Dev. of Untransformed Data						18.43			0.67	0.14						0.42	0.67	0.14	
n				10		10		10	10	10				10	10	10	10		
Student's t-value (one-tailed)				1.80		1.80		1.80	1.80	1.80				1.80	1.80	1.80	1.80		
Upper 95% Confidence Value				3.753		26.466		3.803	22.573	0.812	0.300			6.906	1.022	0.812	0.300		
Lower 95% Confidence Value				<b>1.491</b>		5.534		1.022	7.983	0.056	0.144			0.002	<b>0.550</b>	<b>0.056</b>	<b>0.144</b>		

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

\* Bold values exceed Vermont Preventive Action Level

\*\* Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

\*\*\* As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[b] through [t]: See last page of inorganic data for footnotes of additional data

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).

Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

\*\*\* BRW-2 was destroyed in February 2010 and replaced to the same depth, with BRW-2R approx. 2-feet west of BRW-2.

**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]							
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)	
VT GES**[1]				10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5	
VT Preventive Action Level* [2]				1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5	
VT Health Advisory [3]				None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5	
Federal MCL [4]				10	5	100	None	None	None	None	2	None	None	None	None	None	None	None	None	
Well	Date	Lab	Remarks																	
MW-BRW-3S	5/21/2013	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.120	0.120	< 0.2	< 2.5	< 0.020	<b>0.210</b>	0.089	<b>0.120</b>	<b>0.120</b>	< 0.020	
	6/13/2013	Endyne	see note (1)	< 1	NA	< 5	< 0.020	< 1	< 5	0.075	0.083	< 0.2	< 2.5	< 0.020	0.140	0.081	<b>0.075</b>	<b>0.083</b>	< 0.020	
	7/8/2013	Endyne	see note (2)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.100	0.096	< 0.2	< 2.5	< 0.020	0.110	0.056	<b>0.100</b>	<b>0.096</b>	< 0.020	
	7/25/2013	Endyne	see note (3)	< 20	< 2	< 5	< 0.020	< 1	< 5	0.090	0.093	< 0.2	< 2.5	< 0.020	0.069	0.040	<b>0.090</b>	<b>0.093</b>	< 0.020	
	9/24/2013	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.091	0.087	< 0.2	< 2.5	< 0.020	0.044	0.031	<b>0.091</b>	<b>0.087</b>	< 0.020	
	10/10/2013	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.074	0.073	< 0.2	< 2.5	< 0.020	0.047	< 0.020	<b>0.074</b>	<b>0.073</b>	< 0.020	
	10/29/2013	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.067	0.069	< 0.2	< 2.5	< 0.020	<b>0.170</b>	< 0.020	<b>0.067</b>	<b>0.069</b>	< 0.020	
	5/7/2014	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.080	0.089	< 0.2	< 2.5	< 0.020	0.062	0.031	<b>0.080</b>	<b>0.089</b>	< 0.020	
	Duplicate	5/7/2014	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.088	0.082	< 0.2	< 2.5	< 0.020	<b>0.310</b>	0.027	<b>0.088</b>	<b>0.082</b>	< 0.020
															<b>Averages:</b>	<b>0.129</b>		<b>0.087</b>		

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

\* Bold values exceed Vermont Preventive Action Level.

\*\* Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 2005.

En = Endyne, Inc., Williston, VT.

< means not detected, to the reported detection limit shown.

(1), (2), (3): See last page of inorganic data for footnotes of additional data.

NA = Not Analyzed.

**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

				Primary Groundwater Quality Parameters [1]							Secondary Groundwater Quality Parameters [2]								
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
VT GES**[1]				10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
VT Preventive Action Level* [1]				1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
VT Health Advisory [2]				None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
Federal MCL [2]				10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-BRW-3D	9/25/2013	En	see note (4)	7	< 2	< 5	< 0.020	< 1	8	0.120	0.032	< 0.2	3.8	< 0.020	<b>1.400</b>	0.021	<b>0.120</b>	<b>0.032</b>	< 0.020
	10/10/2013	En	see note (1)	<b>6</b>	< 2	< 5	< 0.020	< 1	< 5	0.034	0.033	< 0.2	3.2	< 0.020	<b>0.360</b>	< 0.020	<b>0.034</b>	<b>0.033</b>	< 0.020
	10/29/2013	En	see note (1)	<b>13</b>	< 2	< 5	< 0.020	1	< 5	0.061	0.032	< 0.2	< 2.5	< 0.020	0.080	0.070	<b>0.061</b>	<b>0.032</b>	< 0.020
	5/7/2014	En	see note (13)	<b>24</b>	< 2	10	< 0.020	1	13	0.092	0.022	< 0.2	< 2.5	< 0.020	<b>3.5</b>	<b>0.160</b>	<b>0.092</b>	0.022	< 0.020
	<b>Averages:</b>				<b>13</b>											<b>1.335</b>		<b>0.077</b>	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table , Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

\* Bold values exceed Vermont Preventive Action Level.

\*\* Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 200

En = Endyne Inc., Williston, VT.

\*< means not detected, to the reported detection limit shown

(1), (4), (13): See last page of inorganic data for footnotes of additional data

**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]							
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)	
VT GES**[1]				10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5	
VT Preventive Action Level* [2]				1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5	
VT Health Advisory [3]				None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5	
Federal MCL [4]				10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None	
Well	Date	Lab	Remarks																	
MW-BRW-4S	3/12/2014	Endyne	see note (4)	1	< 2	< 5	< 0.020	2	7	0.290	0.290	< 0.2	46	< 0.020	4.4	3.5	0.290	0.290	< 0.020	
	3/25/2014	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.270	0.270	< 0.2	38	< 0.020	3.8	3.5	0.270	0.270	< 0.020	
	4/14/2014	Endyne	see note ^																	
	5/8/2014	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.260	0.280	< 0.2	36	< 0.020	3.6	3.8	0.260	0.280	< 0.020	
	6/5/2014	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.240	0.240	< 0.2	28	< 0.020	3.7	3.4	0.240	0.240	0.026	
														<b>Averages:</b>	<b>3.88</b>		<b>0.265</b>			

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

\* Bold values exceed Vermont Preventive Action Level.

\*\* Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 2005.

En = Endyne, Inc., Williston, VT.

< means not detected, to the reported detection limit shown.

note: (4),(1): See last page of inorganic data for footnotes of additional data.

\*No sample collected, well was inaccessible due to flooding

**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

				Primary Groundwater Quality Parameters [1]										Secondary Groundwater Quality Parameters [2]					
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
VT GES**[1]				10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
VT Preventive Action Level* [2]				1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
VT Health Advisory [3]				None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
Federal MCL [4]				10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-BRW-5S	3/12/2014	Endyne	see note (8)	<b>4</b>	< 2	14	< 0.020	<b>4</b>	23	<b>1.200</b>	<b>1.100</b>	< 0.2	12	< 0.020	<b>23</b>	<b>15</b>	<b>1.200</b>	<b>1.100</b>	0.032
	3/25/2014	Endyne	see note (13)	<b>2</b>	< 2	7	< 0.020	< 1	10	<b>1.200</b>	<b>1.200</b>	< 0.2	9.3	< 0.020	<b>14</b>	<b>12</b>	<b>1.200</b>	<b>1.200</b>	< 0.020
	4/14/2014	Endyne	see note (4)	<b>3</b>	< 2	< 5	< 0.020	1	8	<b>1.100</b>	<b>1.200</b>	< 0.2	11	< 0.020	<b>19</b>	<b>17</b>	<b>1.100</b>	<b>1.200</b>	< 0.020
	5/5/2014	Endyne	see note (21)	1	< 2	< 5	< 0.020	3	6	<b>0.890</b>	<b>1.000</b>	< 0.2	10	< 0.020	<b>12</b>	<b>13</b>	<b>0.890</b>	<b>1.000</b>	< 0.020
	AVG:				<b>2.5</b>										<b>Averages:</b>	<b>17.0</b>		<b>1.10</b>	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

\* Bold values exceed Vermont Preventive Action Level.

\*\* Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 2005.

En = Endyne, Inc., Williston, VT.

\*-> means not detected, to the reported detection limit shown.

note: (8), (13), (4), (21)- See last page of inorganic data for footnotes of additional data.



**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

				Primary Groundwater Quality Parameters [1]							Secondary Groundwater Quality Parameters [2]								
Well	Date	Lab	Remarks	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
			VT GES**[1]	10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
			VT Preventive Action Level* [2]	1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
			VT Health Advisory [3]	None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
			Federal MCL [4]	10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
MW-BRW-6S	3/12/2014	Endyne	see note (9)	7	< 2	< 5	< 0.020	< 1	10	<b>1.100</b>	<b>0.980</b>	< 0.2	3.5	< 0.020	12	13	1.100	0.980	< 0.020
	3/25/2014	Endyne	see note (14)	5	< 2	< 5	< 0.020	< 1	9	<b>0.990</b>	<b>0.990</b>	< 0.2	3.1	< 0.020	18	18	0.990	0.990	< 0.020
	4/14/2014	Endyne	see note (4)	5	< 2	< 5	< 0.020	< 1	8	<b>0.850</b>	<b>0.890</b>	< 0.2	3.0	< 0.020	19	18	0.850	0.890	< 0.020
	5/5/2014	Endyne	see note (22)	2	< 2	< 5	< 0.020	< 1	5	<b>0.610</b>	<b>0.830</b>	< 0.2	2.9	< 0.020	12	11	0.610	0.830	< 0.020
AVG:				4.8											<b>Averages:</b>	15.3		0.888	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

\* Bold values exceed Vermont Preventive Action Level.

\*\* Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 2005.

En = Endyne, Inc., Williston, VT.

\*-> means not detected, to the reported detection limit shown.

note: (9), (14), (4), (22): See last page of inorganic data for footnotes of additional data.

**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

				Primary Groundwater Quality Parameters [1]							Secondary Groundwater Quality Parameters [2]								
Well	Date	Lab	Remarks	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
			VT GES**[1]	10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
			VT Preventive Action Level* [2]	1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
			VT Health Advisory [3]	None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
			Federal MCL [4]	10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
MW-BRW-7S	3/12/2014	Endyne	see note (10)	<b>6</b>	< 2	< 5	< 0.020	< 1	11	<b>2.000</b>	<b>2.000</b>	< 0.2	3.0	< 0.020	<b>32</b>	<b>27</b>	<b>2.000</b>	<b>2.000</b>	< 0.020
	3/25/2014	Endyne	see note (15)	<b>5</b>	< 2	< 5	< 0.020	< 1	7	<b>2.300</b>	<b>2.200</b>	< 0.2	4.5	< 0.020	<b>32</b>	<b>30</b>	<b>2.300</b>	<b>2.200</b>	< 0.020
	4/14/2014	Endyne	see note (18)	<b>4</b>	< 2	< 5	< 0.020	<b>3</b>	7	<b>1.100</b>	<b>1.000</b>	< 0.2	3.6	< 0.020	<b>19</b>	<b>16</b>	<b>1.100</b>	<b>1.000</b>	< 0.020
	5/5/2014	Endyne	see note (4)	<b>3</b>	< 2	5	< 0.020	<b>2</b>	9	<b>0.990</b>	<b>1.300</b>	< 0.2	3.9	< 0.020	<b>19</b>	<b>20</b>	<b>0.990</b>	<b>1.300</b>	< 0.020
AVG:				<b>4.5</b>											<b>Averages: 25.5</b>		<b>1.598</b>		

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

\* Bold values exceed Vermont Preventive Action Level.

\*\* Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 2005.

En = Endyne, Inc., Williston, VT.

\*-> means not detected, to the reported detection limit shown.

note: (10), (15), (18), (4): See last page of inorganic data for footnotes of additional data.

**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

				Primary Groundwater Quality Parameters [1]							Secondary Groundwater Quality Parameters [2]								
Well	Date	Lab	Remarks	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
			VT GES**[1]	10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
			VT Preventive Action Level* [2]	1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
			VT Health Advisory [3]	None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
			Federal MCL [4]	10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
MW-BRW-BS	3/12/2014	Endyne	see note (11)	<b>5</b>	< 2	< 5	< 0.020	< 1	< 5	<b>3.200</b>	<b>2.900</b>	< 0.2	4.5	< 0.020	<b>17</b>	<b>16</b>	<b>3.200</b>	<b>2.900</b>	< 0.020
	3/25/2014	Endyne	see note (16)	<b>4</b>	< 2	< 5	< 0.020	< 1	< 5	<b>2.600</b>	<b>2.600</b>	< 0.2	5.0	< 0.020	<b>21</b>	<b>19</b>	<b>2.600</b>	<b>2.600</b>	< 0.020
	4/14/2014	Endyne	see note (19)	<b>2</b>	< 2	< 5	< 0.020	< 1	< 5	<b>2.700</b>	<b>3.000</b>	< 0.2	3.3	< 0.020	<b>20</b>	<b>22</b>	<b>2.700</b>	<b>3.000</b>	< 0.020
	5/5/2014	Endyne	see note (4)	<b>2</b>	< 2	6	< 0.020	1	7	<b>2.600</b>	<b>3.200</b>	< 0.2	4.7	< 0.020	<b>22</b>	<b>16</b>	<b>2.600</b>	<b>3.200</b>	< 0.020
AVG:				<b>3.3</b>											<b>Averages: 20.0</b>		<b>2.78</b>		

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

\* Bold values exceed Vermont Preventive Action Level.

\*\* Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 2005.

En = Endyne, Inc., Williston, VT.

\*-> means not detected, to the reported detection limit shown.

note: (11), (16), (19), (4): See last page of inorganic data for footnotes of additional data.

**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

				Primary Groundwater Quality Parameters [1]							Secondary Groundwater Quality Parameters [2]								
Well	Date	Lab	Remarks	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
			VT GES**[1]	10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
			VT Preventive Action Level* [2]	1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
			VT Health Advisory [3]	None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
			Federal MCL [4]	10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
MW-BRW-9S	3/12/2014	Endyne	see note (12)	<b>46</b>	< 2	< 5	< 0.020	< 1	< 5	<b>4.700</b>	<b>4.700</b>	< 0.2	5.4	< 0.020	<b>12</b>	<b>12</b>	<b>4.700</b>	<b>4.700</b>	< 0.020
	3/25/2014	Endyne	see note (17)	<b>38</b>	< 2	< 5	< 0.020	< 1	< 5	<b>4.700</b>	<b>4.700</b>	< 0.2	5.3	< 0.020	<b>13</b>	<b>13</b>	<b>4.700</b>	<b>4.700</b>	< 0.020
	4/14/2014	Endyne	see note (20)	<b>38</b>	< 2	< 5	< 0.020	< 1	< 5	<b>3.000</b>	<b>3.000</b>	< 0.2	3.3	< 0.020	<b>7.1</b>	<b>6.0</b>	<b>3.000</b>	<b>3.000</b>	< 0.020
	5/5/2014	Endyne	see note (23)	<b>61</b>	< 2	5	< 0.020	2	< 5	<b>3.300</b>	<b>3.400</b>	< 0.2	3.9	< 0.020	<b>11.0</b>	<b>6.0</b>	<b>3.300</b>	<b>3.400</b>	< 0.020
<b>Averages:</b>				<b>45.8</b>											<b>10.8</b>		<b>3.93</b>		

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

\* Bold values exceed Vermont Preventive Action Level.

\*\* Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 2005.

En = Endyne, Inc., Williston, VT.

\*-> means not detected, to the reported detection limit shown.

note: (12), (17), (20), (23): See last page of inorganic data for footnotes of additional data.

**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]							
Well	Date	Lab	Remarks	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)	
			VT GES**[1]	10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5	
			VT Preventive Action Level* [2]	1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5	
			VT Health Advisory [3]	None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5	
			Federal MCL [4]	10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None	
MW-BRW-10S	5/6/2014	Endyne	see note (24)	<b>2</b>	< 2	< 5	< 0.020	< 1	< 5	<b>0.450</b>	<b>0.500</b>	< 0.2	< 2.5	< 0.020	<b>3.00</b>	<b>3.90</b>	<b>0.450</b>	<b>0.500</b>	< 0.020	
	6/5/2014	Endyne	see note (16)	< 1	< 2	< 5	< 0.020	1	< 5	<b>0.350</b>	<b>0.280</b>	< 0.2	< 2.5	< 0.020	<b>3.20</b>	<b>5.10</b>	<b>0.350</b>	<b>0.280</b>	0.032	
	6/17/2014^	Endyne	see note (25)	1	< 2	< 5	< 0.020	1	5	<b>0.340</b>	<b>0.340</b>	< 0.2	< 2.5	< 0.020	<b>6.30</b>	<b>5.10</b>	<b>0.340</b>	<b>0.340</b>	< 0.020	
	7/7/2014	Endyne	see note (20)	< 1	< 2	7	< 0.020	< 1	5	<b>0.380</b>	<b>0.250</b>	0.22	< 2.5	< 0.020	<b>14.00</b>	<b>4.80</b>	<b>0.380</b>	<b>0.250</b>	< 0.020	
															<b>Averages:</b>		<b>6.63</b>	<b>0.38</b>		

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

\* Bold values exceed Vermont Preventive Action Level.

\*\* Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 2005.

En = Endyne, Inc., Williston, VT.

\*-> means not detected, to the reported detection limit shown.

note: (24), (16), (25), (20): See last page of inorganic data for footnotes of additional data.

^: Sample filtration occurred beyond the 15-minute hold time, and was performed by the laboratory upon arrival

**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

				Primary Groundwater Quality Parameters [1]							Secondary Groundwater Quality Parameters [2]								
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
VT GES**[1]				10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	250	1.0	0.3	0.3	0.05	0.05	5	
VT Preventive Action Level* [2]				1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	125	0.5	0.15	0.15	0.025	0.025	2.5	
VT Health Advisory [3]				None	None	None	1.300	15	100	0.300	0.300	250	1.0	0.3	0.3	0.05	0.05	5	
Federal MCL [4]				10	5	100	None	None	None	None	2	None	None	None	None	None	None	None	
Well	Date	Lab	Remarks																
<b>GP-2R</b>	5/9/2013	Endyne	see note (7)	<b>21</b>	<b>3</b>	42	< 0.020	<b>9</b>	<b>410</b>	<b>3.10</b>	<b>3.30</b>	< 0.2	<b>770</b>	< 0.020	<b>28</b>	<b>0.170</b>	<b>3.10</b>	<b>3.30</b>	0.065

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

\* Bold values exceed Vermont Preventive Action Level.

\*\* Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 2005.

\*\*\* As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

En = Endyne, Inc., Williston, VT.

"<" means not detected, to the reported detection limit shown.

(7): See last page of inorganic data for footnotes of additional data.

**NEWSVT Landfills  
Coventry, Vermont  
Groundwater Analyses  
Inorganics**

				Primary Groundwater Quality Parameters [1]							Secondary Groundwater Quality Parameters [2]											
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)			
VT GES**[1]				10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5			
VT Preventive Action Level* [2]				1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5			
VT Health Advisory [3]				None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5			
Federal MCL [4]				10	5	100	None	None	None	None	2	None	None	None	None	None	None	None	None			
Well	Date	Lab	Remarks																			
GP-4	5/9/2013	Endyne	see note (6)	<b>130</b>	<b>19</b>	<b>410</b>	0.160	<b>110</b>	<b>1000</b>	<b>5.600</b>	< 0.020	< 0.2	22	0.160	<b>250</b>	0.083	<b>5.600</b>	< 0.020	0.520			
	7/25/2013	Endyne	see note (5)	< 20	< 2	0.031	< 0.020	<b>7</b>	<b>82</b>	<b>0.450</b>	<b>0.390</b>	< 0.2	98	< 0.020	<b>19</b>	0.037	<b>0.450</b>	<b>0.390</b>	0.044			

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.  
[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

# **APPENDIX B**

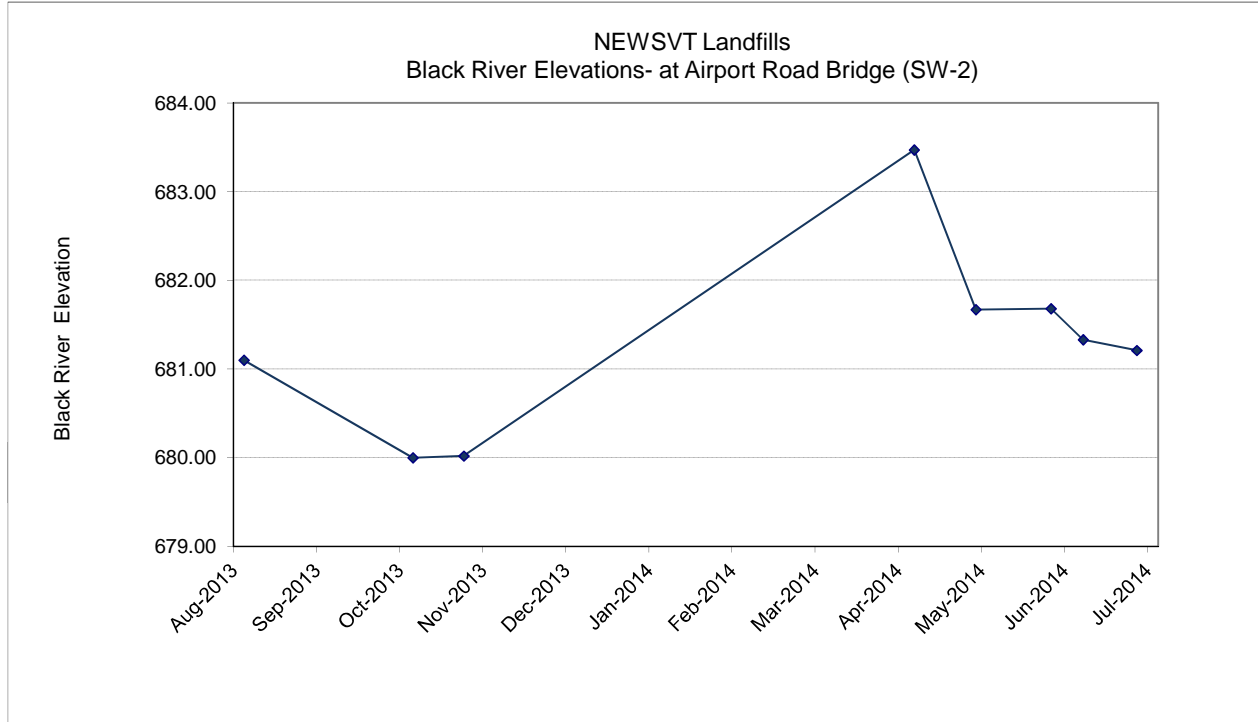


NEWSVT Landfills - Water Level Measurements

Black River at Airport Rd. Bridge		
DATE	DEPTH (FT)	RIVER ELEVATION
	Below Bridge [1]	FT.
8/8/2013	9.40	681.10
10/10/2013	10.50	680.00
10/29/2013	10.48	680.02
4/15/2014	7.03	683.47
5/8/2014	8.83	681.67
6/5/2014	8.82	681.68
6/17/2014	9.17	681.33
7/7/2014	9.29	681.21

Black River at Airport Road Bridge (SW-2)

Elevation Survey Point 690.50 Ft.  
 (on bridge, east side, outer edge of yellow mark on concrete)



1. Below Bridge = measurement from survey point (yellow marking) on bridge down

**NEWSVT Landfills - Water Elevation Estimates: Black River, Upstream Locations**

690.50	Ft.	Elev. of survey point on Airport Road Bridge; near WQ station SW-2.
--------	-----	---

Black River Elevations:				Near BRW-2R	Near BRW-7S	Near BRW-8S	Near BRW-10S	At SW-2
DATE	At Bridge		Dist. Upstream from Bridge, ft.:	3,000	5,000	8,100	11,200	12,000
	Dist. Down, ft.	Elev., ft.		Elev., ft.	Elev., ft.	Elev., ft.	Elev., ft.	Elev., ft.
8/8/2013	9.40	681.10		681.2	681.3	681.4	681.5	681.5
10/10/2013	10.50	680.00		680.1	680.2	680.3	680.4	680.4
10/29/2013	10.48	680.02		680.1	680.2	680.3	680.4	680.4
4/15/2014	7.03	683.47		683.6	683.6	683.7	683.8	683.9
5/8/2014	8.83	681.67		681.8	681.8	681.9	682.0	682.1
6/5/2014	8.82	681.68		681.8	681.8	682.0	682.1	682.1
6/17/2014	9.17	681.33		681.4	681.5	681.6	681.7	681.7
7/7/2014	9.29	681.21		681.3	681.4	681.5	681.6	681.6

**Calculations of River Elevations Upstream of Bridge:**

Elev. Rise, Bridge to Oxbow near BRW-2R:	0.1	ft. [1]
River Distance from Bridge to Oxbow:	3,000	ft.
River Slope:	3.33333E-05	ft/ft
River Distance from Bridge to BRW-7S:	5,000	ft.
River Elev. at BRW-7S, above Elev at Bridge:	0.17	ft.
River Distance from Bridge to BRW-8S:	8,100	ft.
River Elev. at BRW-8S, above Elev at Bridge:	0.27	ft.
River Distance from Bridge to Opposite BRW-10S:	11,200	ft.
River Elev. opposite BRW-10S, above Elev at Bridge:	0.37	ft.
River Distance from Bridge to SW-2:	12,000	ft.
River Elev. at SW-2 above Elev at Bridge:	0.40	ft.

**Notes:**

1. Per Nadeau Survey, 8-08-2013.

NEWSVT Landfills - Water Level Measurements

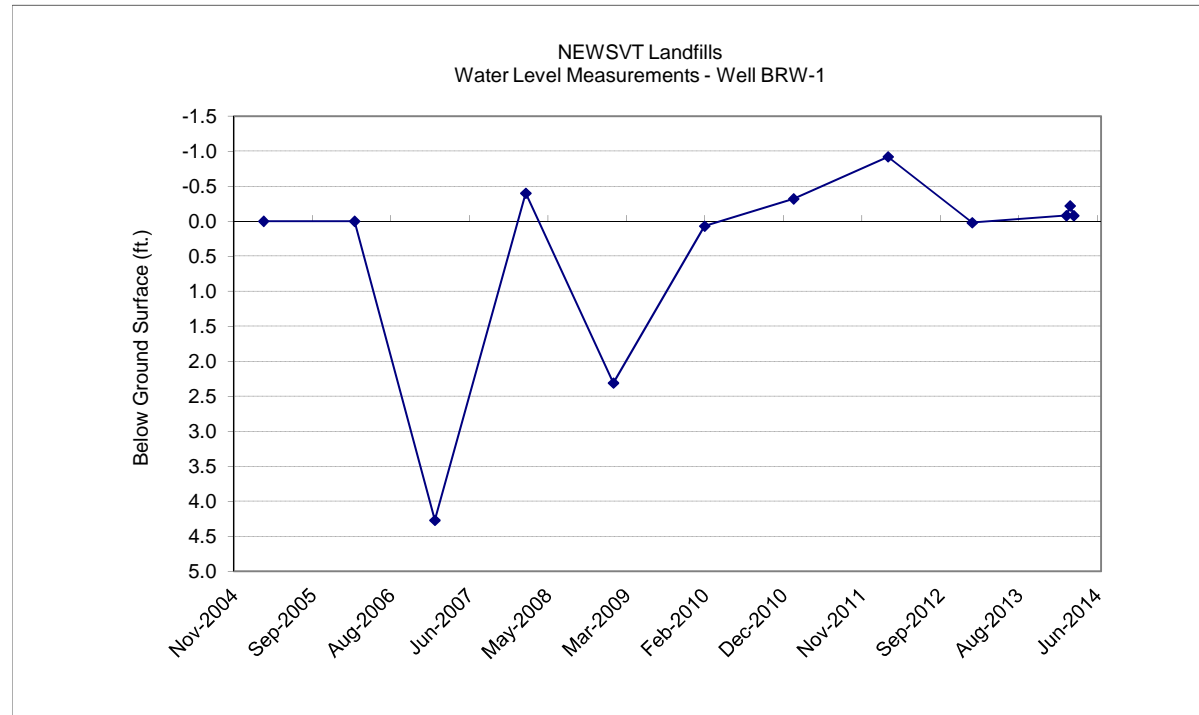
MW-BRW-1			
Date	Depth		Elevation feet
	BTOP	BGS	
3/10/2005	--	--	--
3/16/2006	--	--	--
2/6/2007	6.77	4.27	677.33
2/12/2008	2.1	-0.40	682.00
2/3/2009	4.81	2.31	679.29
2/10/2010	2.57	0.07	681.53
2/8/2011	2.18	-0.32	681.92
2/28/2012	1.58	-0.92	682.52
2/5/2013	2.52	0.02	681.58
2/24/2014	2.42	-0.08	681.68
3/11/2014	2.28	-0.22	681.82
3/26/2014	2.42	-0.08	681.68

Well BRW-1

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	684.10	Ft.
Elevation GS	681.60	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	2.50	Ft.
Well Depth BGS	14	Ft.
Well Bottom Elev.	667.60	Ft.
Screen Top Depth	9	Ft.
Screen Top Elev.	672.60	Ft.

WELL TYPE:
SHALLOW
Surficial

BGS = Below Ground Surface  
 BTOP = Below Top of Pipe (PVC)  
 GS = Ground surface  
 PVC = PVC well casing (inside)  
 TOC = Top of casing (outer casing)  
 Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table; Completed in Surficial Material, or Bedrock).  
 Blank cell indicates no water level collected

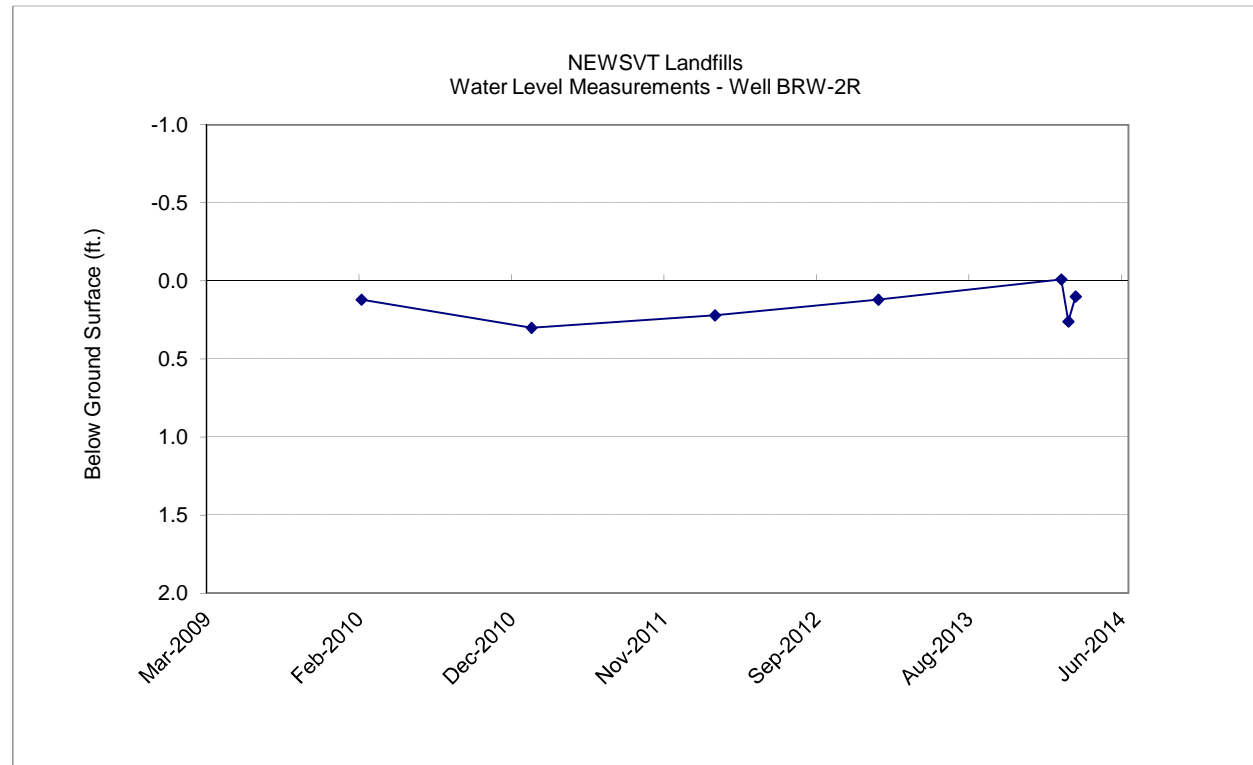


NEWSVT Landfills - Water Level Measurements

MW-BRW-2			
Date	Depth		Elevation feet
	BTOP	BGS	
3/10/2005	--	--	--
3/16/2006	--	--	--
2/6/2007	5.66	--	--
2/21/2008	4.54	--	--
2/3/2009	2.33	--	--
Well BRW-2R			
DATE	DEPTH (FT)		ELEVATION FT.
	BTOP	BGS	
Replaced February 16, 2010			
2/16/2010	6.52	0.12	681.48
2/8/2011	6.70	0.30	681.30
2/28/2012	6.62	0.22	681.38
2/5/2013	6.52	0.12	681.48
2/24/2014	6.39	-0.01	681.61
3/11/2014	6.66	0.26	681.34
3/26/2014	6.50	0.10	681.50

Well BRW-2R		
Outer Casing Elev.	none	Ft.
Elevation PVC TOC	688.00	Ft.
Elevation GS	681.60	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	6.40	Ft.
Well Depth BGS	9.5	Ft.
Well Bottom Elev.	672.10	Ft.
Screen Top Depth	4.5	Ft.
Screen Top Elev.	677.10	Ft.

<b>WELL TYPE:</b>
<b>SHALLOW</b>
<b>Surficial</b>



BTOP = Below Top of Pipe (PVC)  
 GS = Ground surface  
 PVC = PVC well casing (inside)  
 TOC = Top of casing (outer casing)  
 Well Type: Characterized by WHEM (Shallow or Deep,  
 relative to Water Table;  
 Completed in Surficial Material, or Bedrock).  
 Blank cell indicates no water level collected

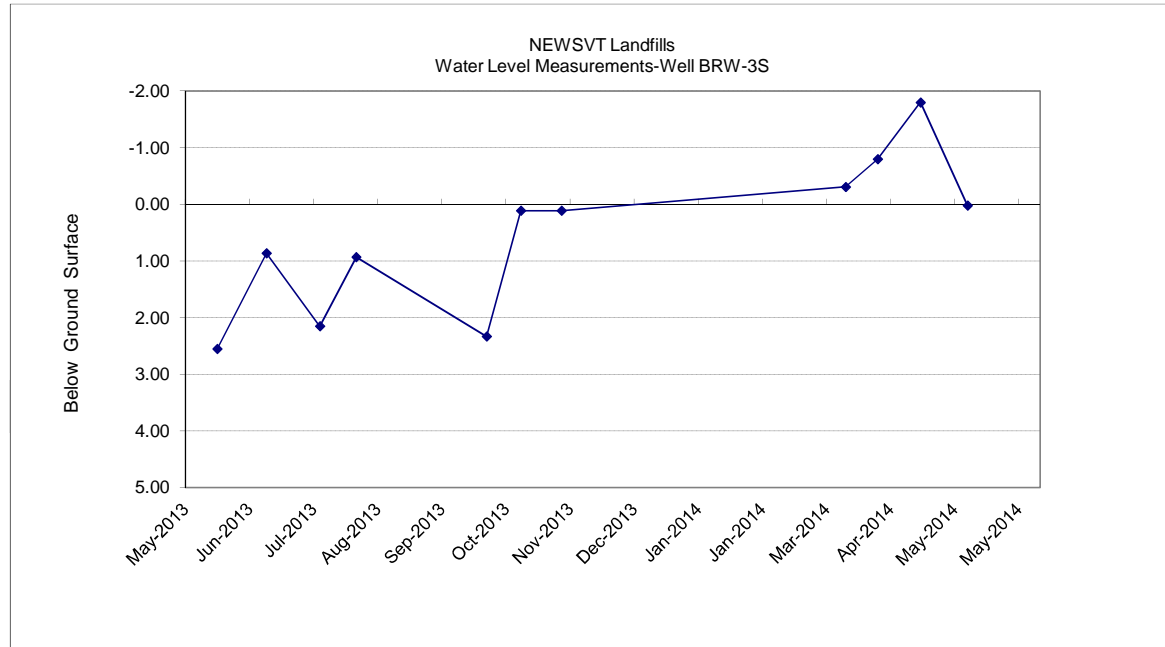
NEWSVT Landfills - Water Level Measurements

Well BRW-3S					
DATE	DEPTH (FT)		WATER ELEVATION FT.	SURFACE WATER	
	BTOP	BGS		Depth (FT)	ELEVATION FT.
5/21/2013	5.35	2.55	680.05	NA	NA
6/13/2013	3.66	0.86	681.74	NA	NA
7/8/2013	4.95	2.15	680.45	NA	NA
7/25/2013	3.73	0.93	681.67	NA	NA
9/24/2013	5.13	2.33	680.27	NA	NA
10/10/2013	2.91	0.11	682.49	NA	NA
10/29/2013	2.91	0.11	682.49	NA	NA
3/11/2014	2.49	-0.31	682.91	NA	NA
3/26/2014	^2.00	-0.80	683.40	NA	NA
4/15/2014	1.00	-1.80	684.40	1.00	683.60
5/7/2014	2.82	0.02	682.58	NA	NA

Well BRW-3S		
Outer Casing Elev.	none	Ft.
Elevation PVC TOC	685.40	Ft.
Elevation GS	682.60	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	2.80	Ft.
Well Depth BGS	10	Ft.
Well Bottom Elev.	672.60	Ft.
Screen Top Depth	5	Ft.
Screen Top Elev.	677.60	Ft.

<b>WELL TYPE:</b>
<b>SHALLOW</b>
<b>Surficial</b>

BTOP = Below Top of Pipe (PVC)  
 GS = Ground surface  
 PVC = PVC well casing (inside)  
 TOC = Top of casing (outer casing)  
 ^ = Water level was at ice surface within well  
 Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table; Completed in Surficial Material, or Bedrock).  
 Surface Water is flood water surrounding PVC Well  
 NA=Not applicable



NEWSVT Landfills - Water Level Measurements

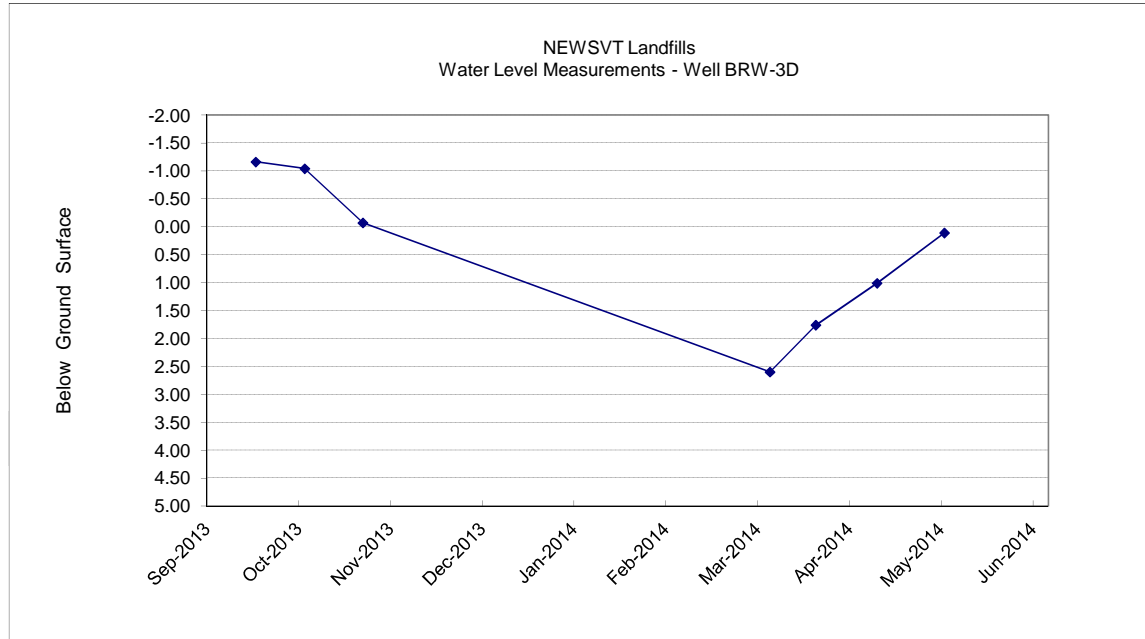
Well BRW-3D					
DATE	DEPTH (FT)		WATER	SURFACE WATER	
	BTOP	BGS	ELEVATION FT.	Depth (FT)	ELEVATION FT.
9/24/2013	1.23	-1.16	683.72	NA	NA
10/10/2013	1.35	-1.04	683.60	NA	NA
10/29/2013	2.32	-0.07	682.63	NA	NA
3/11/2014	4.99	2.60	679.96	NA	NA
3/26/2014	4.15	1.76	680.80	NA	NA
4/15/2014	3.40	1.01	681.55	0.60	683.16
5/7/2014	2.50	0.11	682.45	NA	NA

Well BRW-3D

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	684.95	Ft.
Elevation GS	682.56	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	2.39	Ft.
Well Depth BGS	46	Ft.
Well Bottom Elev.	636.56	Ft.
Screen Top Depth	36.5	Ft.
Screen Top Elev.	646.06	Ft.

WELL TYPE:
DEEP
Surficial

BTOP = Below Top of Pipe (PVC)  
 GS = Ground surface  
 PVC = PVC well casing (inside)  
 TOC = Top of casing (outer casing)  
 Well Type: Characterized by WHEM (Shallow or Deep,  
 relative to Water Table;  
 Completed in Surficial Material, or Bedrock).  
 Surface Water is flood water surrounding PVC Well  
 NA=Not applicable



NEWSVT Landfills - Water Level Measurements

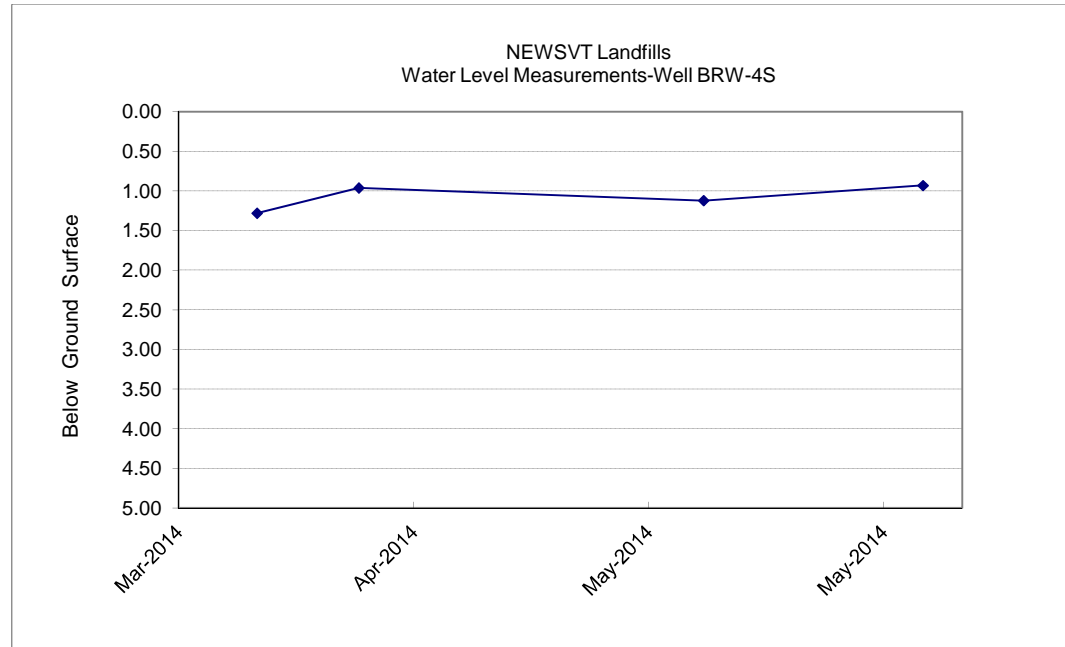
Well BRW-4S					
DATE	DEPTH (FT)		WATER	SURFACE WATER	
	BTOP	BGS	ELEVATION	Depth (FT)	ELEVATION
			FT.	BTP	FT.
3/12/2014	4.24	1.28	681.02	NA	NA
3/25/2014	3.92	0.96	681.34	NA	NA
5/8/2014	4.08	1.12	681.18	0.5	685.76
6/5/2014	3.89	0.93	681.37	0.5	682.80

Well BRW-4S

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	685.26	Ft.
Elevation GS	682.30	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	2.96	Ft.
Well Depth BGS	5.5	Ft.
Well Bottom Elev.	676.80	Ft.
Screen Top Depth	0.25	Ft.
Screen Top Elev.	682.05	Ft.

<b>WELL TYPE:</b>
<b>SHALLOW</b>
<b>Surficial</b>

BTOP = Below Top of Pipe (PVC)  
 GS = Ground surface  
 PVC = PVC well casing (inside)  
 TOC = Top of casing (outer casing)  
 Well Type: Characterized by WHEM (Shallow or Deep,  
 relative to Water Table;  
 Completed in Surficial Material, or Bedrock).  
 Completed in Surficial Material, or Bedrock).  
 Blank cell indicates no water level collected  
 Surface Water is flood water surrounding PVC Well  
 NA=Not applicable



NEWSVT Landfills - Water Level Measurements

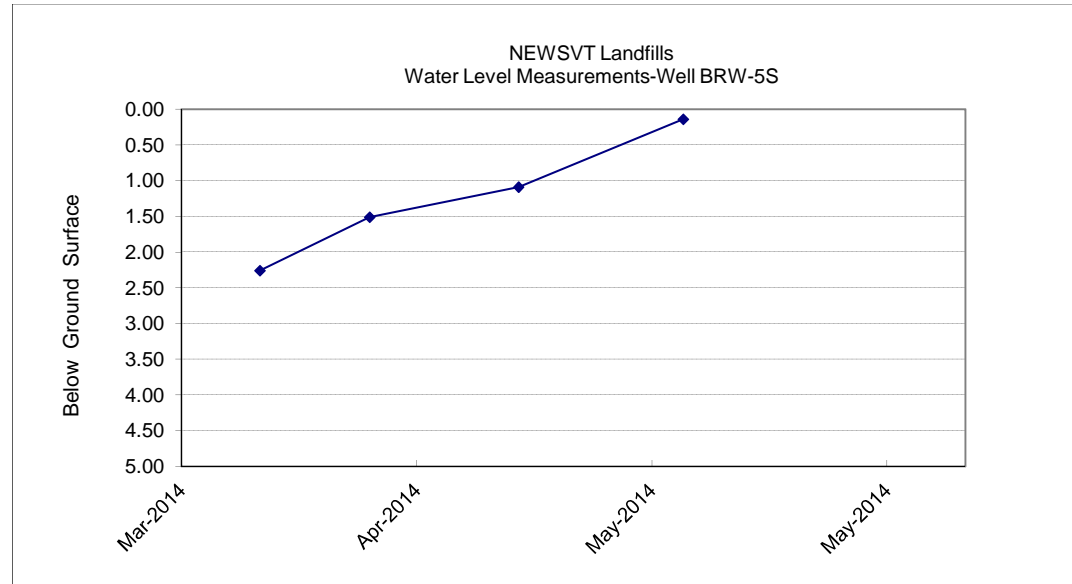
Well BRW-5S					
DATE	DEPTH (FT)		WATER	SURFACE WATER	
	BTOP	BGS	ELEVATION	Depth (FT)	ELEVATION
			FT.	BTP	FT.
3/12/2014	5.40	2.26	679.84	NA	NA
3/26/2014	4.65	1.51	680.59	NA	NA
4/14/2014	4.23	1.09	681.01	3.00	685.10
5/5/2014	3.28	0.14	681.96	NA	NA

Well BRW-5S

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	685.24	Ft.
Elevation GS	682.10	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	3.14	Ft.
Well Depth BGS	6.96	Ft.
Well Bottom Elev.	675.14	Ft.
Screen Top Depth	1.96	Ft.
Screen Top Elev.	680.14	Ft.

<b>WELL TYPE:</b>
<b>SHALLOW</b>
<b>Surficial</b>

BTOP = Below Top of Pipe (PVC)  
 GS = Ground surface  
 PVC = PVC well casing (inside)  
 TOC = Top of casing (outer casing)  
 Well Type: Characterized by WHEM (Shallow or Deep,  
 relative to Water Table;  
 Completed in Surficial Material, or Bedrock).  
 Surface Water is flood water surrounding PVC Well  
 NA=Not applicable





NEWSVT Landfills - Water Level Measurements

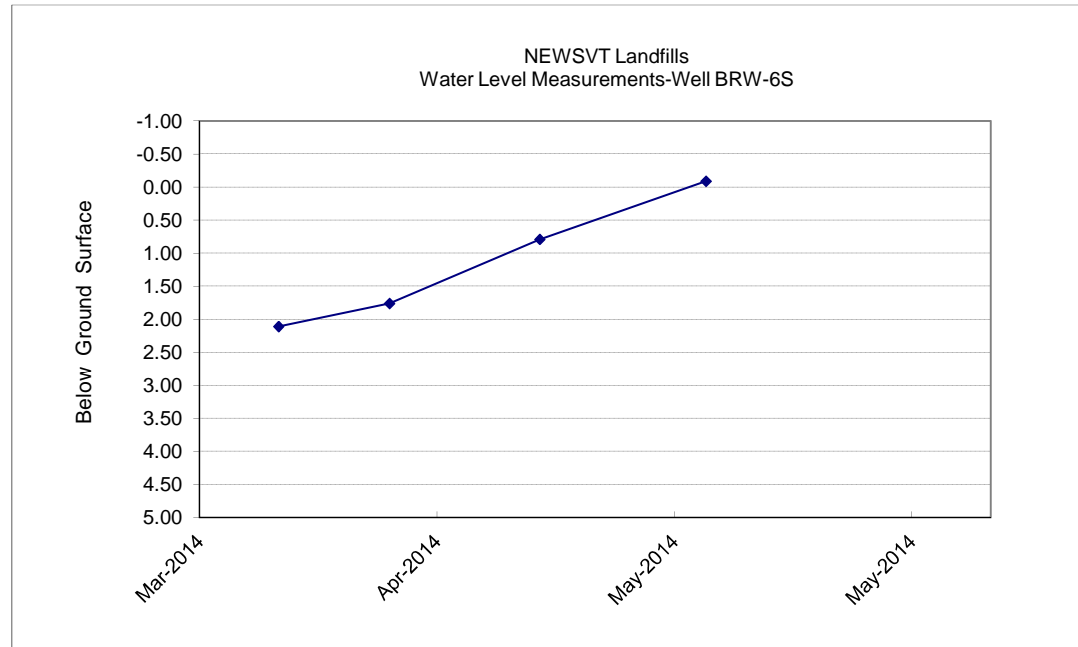
Well BRW-6S					
DATE	DEPTH (FT)		WATER	SURFACE WATER	
	BTOP	BGS	ELEVATION	Depth (FT)	ELEVATION
			FT.	BTP	FT.
3/12/2014	4.85	2.11	679.89	NA	NA
3/26/2014	4.50	1.76	680.24	NA	NA
4/14/2014	3.53	0.79	681.21	3.00	685.00
5/5/2014	2.65	-0.09	682.09	2.50	684.50

Well BRW-6S

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	684.74	Ft.
Elevation GS	682.00	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	2.74	Ft.
Well Depth BGS	10.1	Ft.
Well Bottom Elev.	671.90	Ft.
Screen Top Depth	5.1	Ft.
Screen Top Elev.	676.90	Ft.

<b>WELL TYPE:</b>
<b>SHALLOW</b>
<b>Surficial</b>

BTOP = Below Top of Pipe (PVC)  
 GS = Ground surface  
 PVC = PVC well casing (inside)  
 TOC = Top of casing (outer casing)  
 Well Type: Characterized by WHEM (Shallow or Deep,  
 relative to Water Table;  
 Completed in Surficial Material, or Bedrock).  
 Surface Water is flood water surrounding PVC Well  
 NA=Not applicable



NEWSVT Landfills - Water Level Measurements

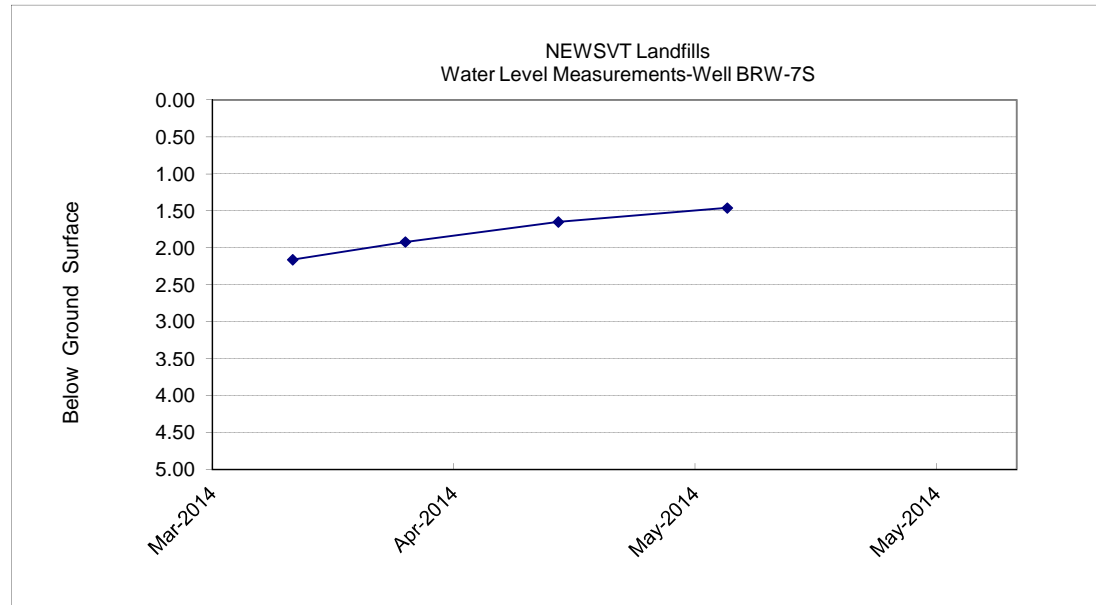
Well BRW-7S					
DATE	DEPTH (FT)		WATER	SURFACE WATER	
	BTOP	BGS	ELEVATION	Depth (FT)	ELEVATION
			FT.	BTP	FT.
3/12/2014	5.00	2.16	680.14	NA	NA
3/26/2014	4.76	1.92	680.38	NA	NA
4/14/2014	4.49	1.65	680.65	2.00	684.30
5/5/2014	4.30	1.46	680.84	1.50	684.30

Well BRW-7S

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	685.14	Ft.
Elevation GS	682.30	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	2.84	Ft.
Well Depth BGS	6.59	Ft.
Well Bottom Elev.	675.71	Ft.
Screen Top Depth	1.59	Ft.
Screen Top Elev.	680.71	Ft.

<b>WELL TYPE:</b>
<b>SHALLOW</b>
<b>Surficial</b>

BTOP = Below Top of Pipe (PVC)  
 GS = Ground surface  
 PVC = PVC well casing (inside)  
 TOC = Top of casing (outer casing)  
 Well Type: Characterized by WHEM (Shallow or Deep,  
 relative to Water Table;  
 Completed in Surficial Material, or Bedrock).  
 Surface Water is flood water surrounding PVC Well  
 NA=Not applicable



NEWSVT Landfills - Water Level Measurements

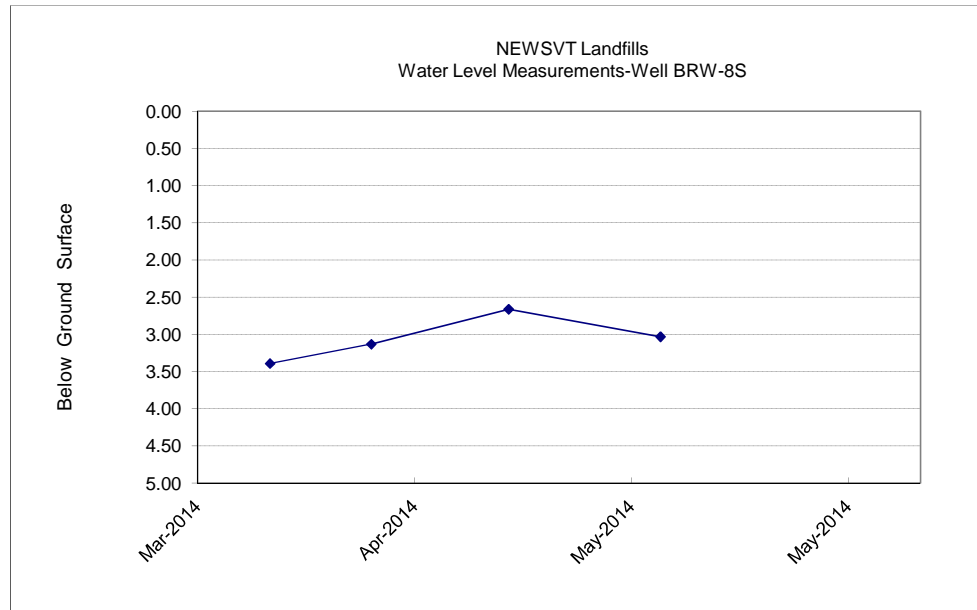
Well BRW-8S					
DATE	DEPTH (FT)		WATER	SURFACE WATER	
	BTOP	BGS	ELEVATION FT.	Depth (FT)	ELEVATION FT.
3/12/2014	7.26	3.39	679.61	NA	NA
3/26/2014	7.00	3.13	679.87	NA	NA
4/14/2014	6.53	2.66	680.34	3.50	686.50
5/5/2014	6.90	3.03	679.97	0.50	683.50

Well BRW-8S

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	686.87	Ft.
Elevation GS	683.00	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	3.87	Ft.
Well Depth BGS	6.15	Ft.
Well Bottom Elev.	676.85	Ft.
Screen Top Depth	1.15	Ft.
Screen Top Elev.	681.85	Ft.

<b>WELL TYPE:</b>
<b>SHALLOW</b>
<b>Surficial</b>

BTOP = Below Top of Pipe (PVC)  
 GS = Ground surface  
 PVC = PVC well casing (inside)  
 TOC = Top of casing (outer casing)  
 Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table; Completed in Surficial Material, or Bedrock).  
 Surface Water is flood water surrounding PVC Well  
 NA=Not applicable



NEWSVT Landfills - Water Level Measurements

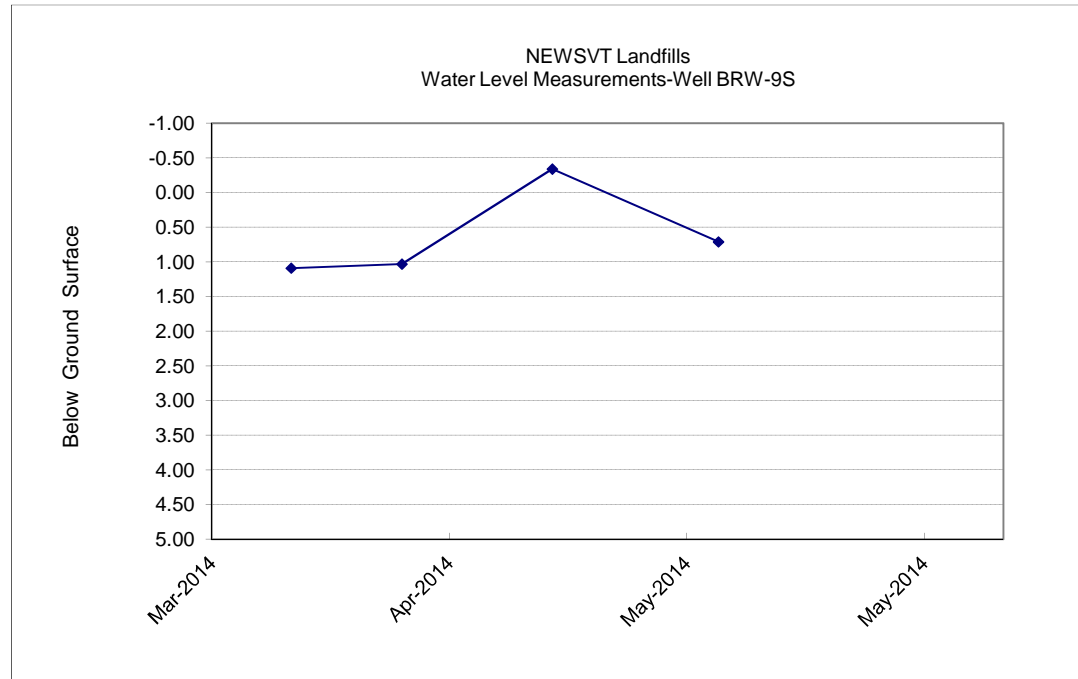
Well BRW-9S					
DATE	DEPTH (FT)		WATER	SURFACE WATER	
	BTOP	BGS	ELEVATION	Depth (FT)	ELEVATION
			FT.	BTP	FT.
3/12/2014	4.98	1.09	682.51	NA	NA
3/26/2014	4.92	1.03	682.57	NA	NA
4/14/2014	3.55	-0.34	683.94	4.00	687.60
5/5/2014	4.60	0.71	682.89	NA	NA

Well BRW-9S

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	687.49	Ft.
Elevation GS	683.60	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	3.89	Ft.
Well Depth BGS	4.85	Ft.
Well Bottom Elev.	678.75	Ft.
Screen Top Depth	0.15	Ft.
Screen Top Elev.	683.45	Ft.

<b>WELL TYPE:</b>
<b>SHALLOW</b>
<b>Surficial</b>

BTOP = Below Top of Pipe (PVC)  
 GS = Ground surface  
 PVC = PVC well casing (inside)  
 TOC = Top of casing (outer casing)  
 Well Type: Characterized by WHEM (Shallow or Deep,  
 relative to Water Table;  
 Completed in Surficial Material, or Bedrock).  
 Surface Water is flood water surrounding PVC Well  
 NA=Not applicable



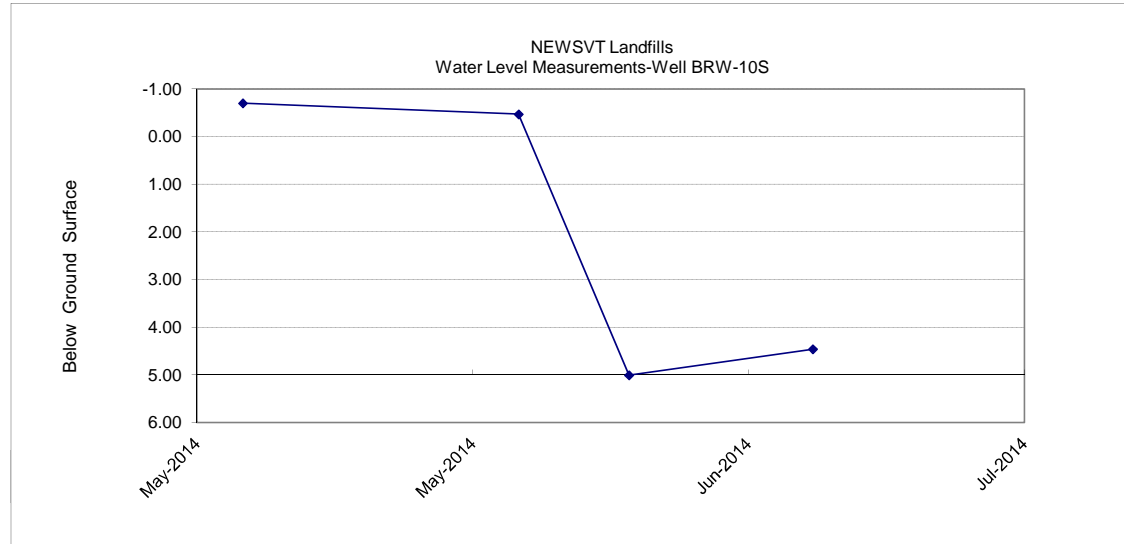
NEWSVT Landfills - Water Level Measurements

Well BRW-10S					
DATE	DEPTH (FT)		WATER	SURFACE WATER	
	BTOP	BGS	ELEVATION FT.	Depth (FT)	ELEVATION FT.
5/6/2014	4.42	-0.70	683.20	0.50	683.00
6/5/2014	4.65*	-0.47	682.97	NA	NA
6/17/2014	9.61	5.01	677.49	NA	NA
7/7/2014	9.06	4.46	678.04	NA	NA

Well BRW-10S

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	687.10	Ft.
Elevation GS	682.50	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	4.60	Ft.
Well Depth BGS	11.56	Ft.
Well Bottom Elev.	670.94	Ft.
Screen Top Depth	6.56	Ft.
Screen Top Elev.	675.94	Ft.

WELL TYPE:
SHALLOW
Surficial



BTOP = Below Top of Pipe (PVC)

GS = Ground surface

PVC = PVC well casing (inside)

TOC = Top of casing (outer casing)

Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table; Completed in Surficial Material, or Bedrock).

NA=Not applicable

\*PVC cut down 0.525' after 6/5/14 sampling; original TOC elevation adjusted

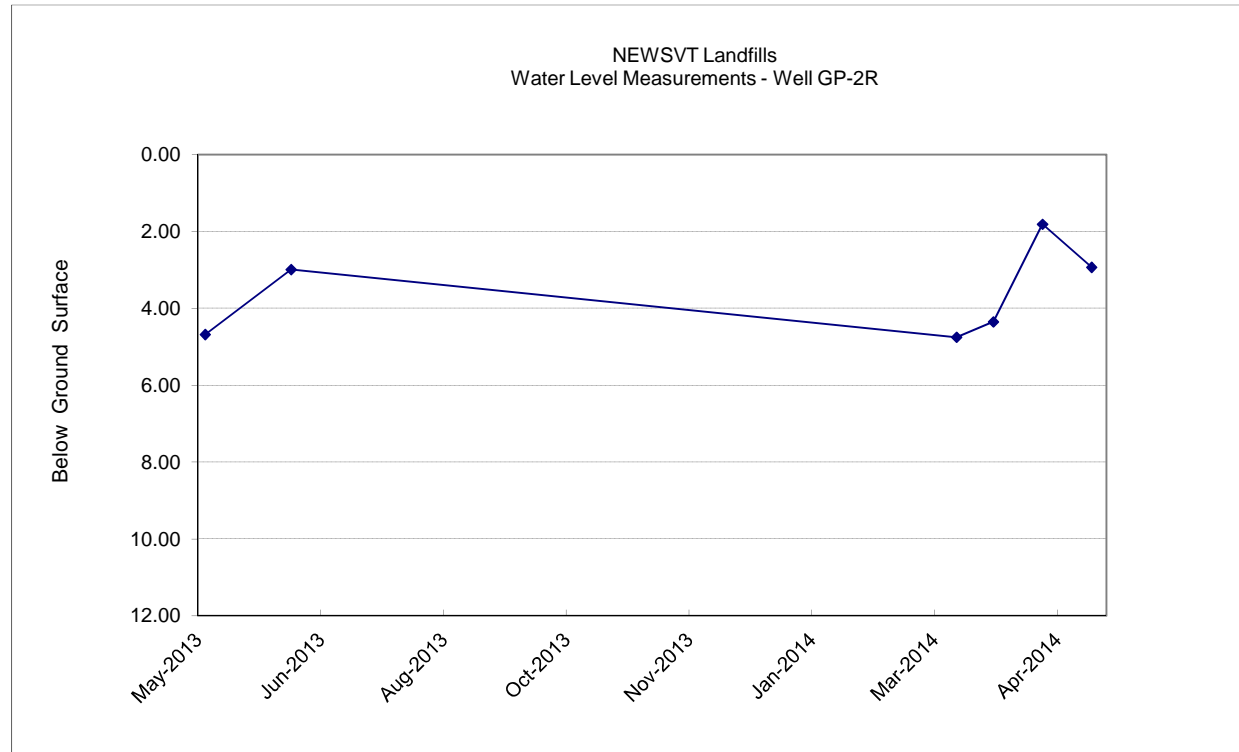
NEWSVT Landfills - Water Level Measurements

Well GP-2R			
DATE	DEPTH (FT)		WATER ELEVATION
	BTOP	BGS	FT.
5/9/2013	7.15	4.68	682.82
6/13/2013	5.46	2.99	684.51
3/11/2014	7.22	4.75	682.75
3/26/2014	6.82	4.35	683.15
4/15/2014	4.28	1.81	685.69
5/5/2014	5.40	2.93	684.57

Well GP-2R		
Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	689.97	Ft.
Elevation GS	687.50	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	2.47	Ft.
Well Depth BGS	9	Ft.
Well Bottom Elev.	678.50	Ft.
Screen Top Depth	NM	Ft.
Screen Top Elev.	NM	Ft.

<b>WELL TYPE:</b>
<b>SHALLOW</b>
<b>Surficial</b>

BTOP = Below Top of Pipe (PVC)  
 GS = Ground surface  
 PVC = PVC well casing (inside)  
 TOC = Top of casing (outer casing)  
 Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table; Completed in Surficial Material, or Bedrock).  
 NM = Not measured



NEWSVT Landfills - Water Level Measurements

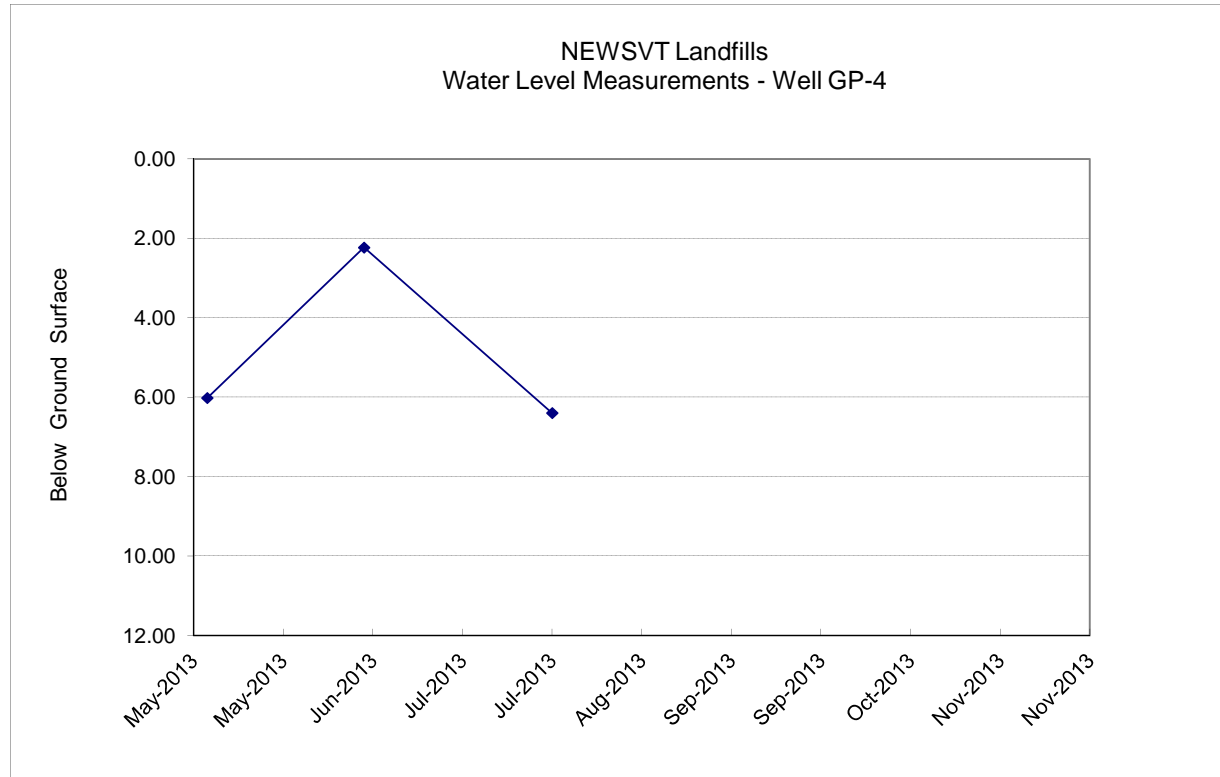
Well GP-4			
DATE	DEPTH (FT)		WATER ELEVATION FT.
	BTOP	BGS	
5/9/2013	9.75	6.02	705.66
6/13/2013	5.96	2.23	709.45
7/25/2013	10.13	6.40	705.28

Well GP-4

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	715.41	Ft.
Elevation GS	711.68	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	3.73	Ft.
Well Depth BGS	8	Ft.
Well Bottom Elev.	703.68	Ft.
Screen Top Depth	NM	Ft.

<b>WELL TYPE:</b>
<b>SHALLOW</b>
<b>Surficial</b>

BTOP = Below Top of Pipe (PVC)  
 GS = Ground surface  
 PVC = PVC well casing (inside)  
 TOC = Top of casing (outer casing)  
 NM = Not measured  
 Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table; Completed in Surficial Material, or Bedrock).




# **APPENDIX C**



# MONITORING WELL LOG

Boring #: BRW-1


Page 1 of 1

	<b>HEINDEL &amp; NOYES, Inc.</b> P.O. BOX 4503 BURLINGTON, VERMONT 05406-4503 TEL: 802-658-0820 FAX: 802-860-1014	Project Name: NEWSVT Project Location: Coventry, VT H&N Project #, Task #: 93320 Drilling Co.: Hand-installed by H&N					
Description of Boring Location: in Black River Wetland north of MW-P1, southwest of BRW-2 Coordinates in NAD83 (State Plane, meters): Northing: 268,175.7 meters; Easting: 521,549.2 meters.							
Date Started: March 2, 2005                      Date Completed: March 2, 2005                      Notes: hand-installed Drillers' Names: Peter Dufault, Chris Aldrich (H&N)							
<b>Soil Sampling Method:</b> Visual inspection of hand-auger cuttings (hand-installed using 3-inch diameter metal auger)							
Depth (ft)	Spl't-sp'n Sample No.	Blows per 6 inches	Sample Recov. (ft)	Depth of Strata Change (ft.)	Sample Description	Field PID (ppm)	Well Construct. Details
0 – 1	X	X	X	1	Ice (frozen surface water; not frozen ground)	X	
1 – 15	X	X	X	none	Woody peat (no silt or mineral soils encountered)	X	See below
					Well with stainless-steel pre-packed screen installed, 9 – 14 ft.; see below		
<b><u>WELL CONSTRUCTION DETAILS:</u></b>							
<b>Well Screen*:</b> Diameter: 2 in. ID; <u>Slot size:</u> 0.010 inches; <u>Set from:</u> 9 ft. to 14 ft.; <u>Sand Pack:</u> pre-packed, 9 – 14 ft. * Well Screen: pre-packed, PVC inner (2.0 in. ID); stainless steel outer (2.8 in. OD). <b>PVC Riser:</b> Diameter: 2 inches; <u>Set from:</u> 9 ft. to +4 ft. (Stick-up: 4 ft.) <b>Filter Sock:</b> no. <b>Bentonite Seal:</b> none at depth. <b>Surface Grout Seal:</b> Placed from 0 ft. to 1 ft. <u>Material:</u> Bentonite. <b>Well Finish:</b> Flush-mount: No (PVC stickup 4 ft.);   Curb Box: NO                      Steel Well-Guard: NO							

# MONITORING WELL LOG

**Boring #: BRW-2R**

Page 1 of 1

	<b>HEINDEL &amp; NOYES, Inc.</b> <b>P.O. BOX 4503</b> <b>BURLINGTON, VERMONT 05406-4503</b> <b>TEL: 802-658-0820</b> <b>FAX: 802-860-1014</b>	Project Name: NEWSVT Project Location: Coventry, VT H&N Project #, Task #: 93320 Drilling Co.: Hand-installed by H&N					
Description of Boring Location: in Black River Wetland north of MW-A1, northeast of BRW-1 Coordinates in NAD83 (State Plane, meters): Northing: 268,237.1 meters; Easting: 521,626.9 meters.							
Date Started: February 16, 2010      Date Completed: February 16, 2010      Notes: hand-installed Drillers' Names: Elizabeth Stanley Mann, Chris Aldrich (H&N)							
<b>Soil Sampling Method:</b> Visual inspection of hand-auger cuttings (hand-installed using 3-inch diameter metal auger)							
Depth (ft)	Splt-spn Sample No.	Blows per 6 inches	Sample Recov. (ft)	Depth of Strata Change (ft.)	Sample Description	Field PID (ppm)	Well Construct. Details
0 – 0.5	X	X	X	0.5	Ice (frozen surface water; not frozen ground)	X	
0.5 – 10	X	X	X	10	Woody peat (no silt or mineral soils encountered)	X	See below
					Soils became dry and fine around 9.0		
					Well with stainless-steel pre-packed screen installed, 4.5 – 9.5 ft.; see below		
<b><u>WELL CONSTRUCTION DETAILS:</u></b>							
<b>Well Screen*:</b> Diameter: 2 in. ID; <u>Slot size:</u> 0.010 inches; <u>Set from:</u> 4.5 ft. to 9.5 ft.; <u>Sand Pack:</u> pre-packed, 4.5 – 9.5 ft. * Well Screen: pre-packed, PVC inner (2.0 in. ID); stainless steel outer (2.8 in. OD). <b>PVC Riser:</b> Diameter: 2 inches; <u>Set from:</u> 4.5 ft. to +5 ft. (Stick-up: 5 ft.) <b>Filter Sock:</b> no. <b>Bentonite Seal:</b> none at depth. <b>Surface Grout Seal:</b> Placed from 0.5 ft. to 1 ft. <u>Material:</u> Bentonite. <b>Well Finish:</b> Flush-mount: No (PVC stickup 5 ft.);    Curb Box: NO      Steel Well-Guard: NO							



## SOIL BORING LOG; WELL CONSTRUCTION RECORD BRW-3S

**Site Name: NEWSVT** ("Black River Wetland monitoring well #3 Shallow")  
**Coventry, VT**

WHEM Proj. #: 93320/2-13

Date Installed: 5/9/2013

Drilled by: Waite-Heindel Environmental Mgmt.

Drilling Method: Stainless Steel Hand Auger, 3.5-in. diam.

Logged by: Wendy Krembs

Sampling Method: same

Development Method: Peristaltic Pump, on 5-21-2013

FT.	Well Construction	Interval (ft)	Soil Characteristics	Letter Symbol	Graphic Symbol	Water
3.0 2.5 2.0 1.5 1.0 0.5 Grade = 0		2.82	Gripper cap, locking stick-up (ft.)			
0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0		0 - 3.0	FIBRIC SOILS: Peat, coarse vegetation	OL		SAT
		3.0 - 8.0	MUCK (SAPRIC soils, partly decomposed peat), sulfurous odor	OL		SAT
		8.0 - 8.5	Woody fibers, sulfurous odor	OL		SAT
		8.5 - 10.0	Clay, gray, lean. No odor.	CL		SAT
			(10.0 ft. = Bottom of auger hole)			

No well-guard installed.

Bentonite Seal Placed in Annulus.

Auger cuttings (Peat) placed in Annulus.

**Soils:**

OL = Organic Soil.

CL = Clay, Lean.

**Water:**

SAT = Saturated.

**LEGEND:**

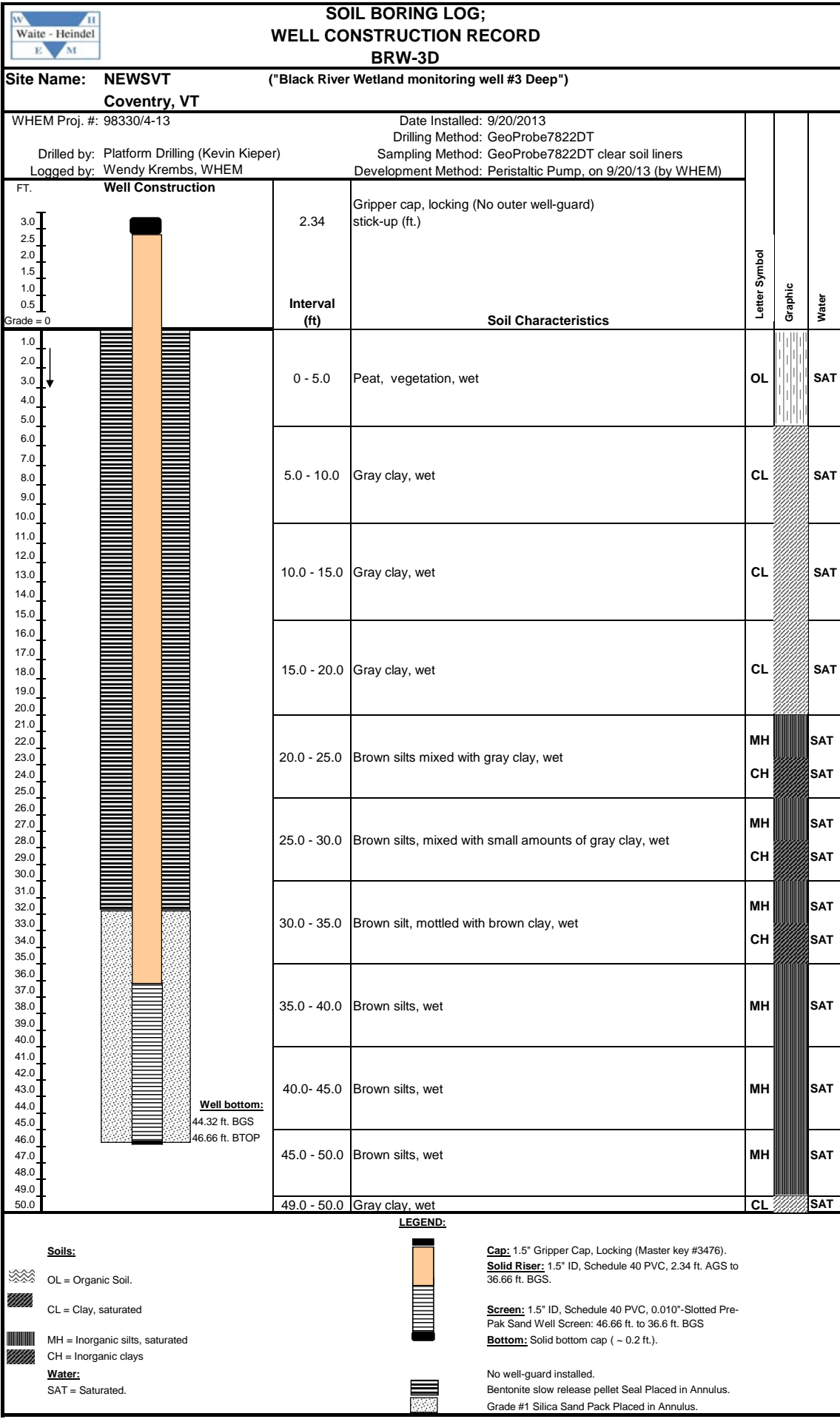


**Cap:** Gripper Cap, Locking (Master key #3476).

**Solid Risier:** 2" ID, Schedule 40 PVC, 2.82 ft. AGS to 5.0 ft. BGS (total 7.52 ft.).

**Screen:** 2" ID, Schedule 40 PVC, 0.010"-Slotted Pre-Pak Sand Well Screen: 5.0 ft. to 10.0 ft. BGS

**Bottom:** Solid bottom cap ( ~ 0.2 ft.).





## SOIL BORING LOG; WELL CONSTRUCTION RECORD BRW-4S

**Site Name: NEWSVT** ("Black River Wetland Monitoring Well #4 Shallow")  
**Coventry, VT**

WHEM Proj. #: 98330/4-13 Recert 2013-14

Date Installed: 2/24/2014

Drilling Method: Stainless Steel Hand Auger, 3.5-in. diam.

Drilled by: Waite-Heindel Environmental Mgmt.

Sampling Method: Auger Cuttings

Logged by: Wendy Krembs

Development Method: Peristaltic Pump, on 3/5/14

FT.	Well Construction	Interval (ft)	Soil Characteristics	Letter Symbol	Graphic Symbol	Water
5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 Grade = 0		4.77	Gripper cap, locking  stick-up (ft.) (approximate, not surveyed)			
0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0		0 - 6.0"	Dark brown, muddy peaty organic materials, strong decayed odor, sulfur odor	PT		SAT
		6.0" - 6.08'	woody fibric debris, sulfur odor	PT		SAT
		6.08' - 6.38'	gray clay	CL		SAT
	<b>Well bottom:</b> 5.25 ft. BGS 10.02 ft. BTOP					

**LEGEND:**

- No well-guard installed.
- Bentonite Seal Placed in Annulus.
- Auger cuttings (Peat) placed in Annulus.
- Soils:**
- PT = Peat & other highly organic soils
- CL = Inorganic clays of low to medium plasticity
- Water:**
- SAT = Saturated.



- Cap:** Slip Cap, Locking Gripper (Master key #3476).
- Solid Riser:** 2" ID, Schedule 40 PVC, 4.77 ft. AGS to 0.25 ft. BGS (total 5.02 ft.).
- Screen:** 2" ID, Schedule 40 PVC, 0.010"-Slotted Pre-Pak Sand Well Screen: 0.25 ft. to 5.25 ft. BGS
- Bottom:** Solid bottom cap (~ 0.2 ft.).



## SOIL BORING LOG; WELL CONSTRUCTION RECORD BRW-5S

**Site Name: NEWSVT** ("Black River Wetland Monitoring Well #5 Shallow")  
**Coventry, VT**

WHEM Proj. #: 98330/4-13 Recert 2013-14

Date Installed: 2/25/2014

Drilling Method: Stainless Steel Hand Auger, 3.5-in. diam.

Drilled by: Waite-Heindel Environmental Mgmt.

Sampling Method: Auger Cuttings

Logged by: Wendy Krembs

Development Method: Peristaltic Pump, on 3/11/14

FT.	Well Construction	Interval (ft)	Soil Characteristics	Letter Symbol	Graphic Symbol	Water
5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 Grade = 0		3.1	Gripper cap, locking  stick-up (ft.) (approximate, not surveyed)			
0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0	<p style="text-align: right;"><b>Well bottom:</b> 6.96 ft. BGS 10.62 ft. BTOP</p>	0 - 1.42'	Mucky organic materials, peat	PT		SAT
		1.42' - 4.70'	Brown clayey silts with organic materials	PT		SAT
		4.7' - 6.0'	gray silt, grading to gray clay	CL		SAT

**LEGEND:**

No well-guard installed.

Bentonite Seal Placed in Annulus.

Auger cuttings (Peat) placed in Annulus.

**Soils:**

PT = Peat & other highly organic soils

CL = Inorganic clays of low to medium plasticity

**Water:**

SAT = Saturated.



**Cap:** Slip Cap, Locking Gripper (Master key #3476).

**Solid Riser:** 2" ID, Schedule 40 PVC, 3.10 ft. AGS to 1.96 ft. BGS (total 5.06 ft.).

**Screen:** 2" ID, Schedule 40 PVC, 0.010"-Slotted Pre-Pak Sand Well Screen: 1.96 ft. to 6.96 ft. BGS

**Bottom:** Solid bottom cap (~ 0.2 ft.).



## SOIL BORING LOG; WELL CONSTRUCTION RECORD BRW-6S

**Site Name:** NEWSVT ("Black River Wetland Monitoring Well #6 Shallow")  
Coventry, VT

WHEM Proj. #: 98330/4-13 Recert 2013-14

Date Installed: 3/4/2014

Drilled by: Waite-Heindel Environmental Mgmt.  
Logged by: Wendy Krembs

Drilling Method: Stainless Steel Hand Auger, 3.5-in. diam.  
Sampling Method: Auger Cuttings  
Development Method: Peristaltic Pump, on 3/11/14

FT.	Well Construction	Interval (ft)	Soil Characteristics	Letter Symbol	Graphic Symbol	Water
4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 Grade = 0		3.5'	Gripper cap, locking  stick-up (ft.) (approximate, not surveyed)			
0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0		0 - 7.0'	Brown mucky organic materials, peat	PT		SAT
		7.0' - 9.0'	Brown woody mucky soils, peat	PT		SAT
		9.0' - 12.0'	Brown mucky organic materials, peat	PT		SAT
	<b>Well bottom:</b> 10.1 ft. BGS 13.6 ft. BTOP					

**LEGEND:**

- No well-guard installed.
- Bentonite Seal Placed in Annulus.
- Auger cuttings (Peat) placed in Annulus.

**Soils:**  
PT = Peat & other highly organic soils

**Water:**  
SAT = Saturated.



- Cap:** Slip Cap, Locking Gripper (Master key #3476).
- Solid Riser:** 2" ID, Schedule 40 PVC, 3.5 ft. AGS to 5.1 ft. BGS (total 8.6 ft.).
- Screen:** 2" ID, Schedule 40 PVC, 0.010"-Slotted Pre-Pak Sand Well Screen: 5.1 ft. to 10.1 ft. BGS
- Bottom:** Solid bottom cap (~ 0.2 ft.).



## SOIL BORING LOG; WELL CONSTRUCTION RECORD BRW-7S

**Site Name: NEWSVT** ("Black River Wetland Monitoring Well #7 Shallow")  
**Coventry, VT**

WHEM Proj. #: 98330/4-13 Recert 2013-14

Date Installed: 3/4/2014

Drilling Method: Stainless Steel Hand Auger, 3.5-in. diam.

Drilled by: Waite-Heindel Environmental Mgmt.

Sampling Method: Auger Cuttings

Logged by: Wendy Krembs

Development Method: Peristaltic Pump, on 3/11/14

FT.	Well Construction	Interval (ft)	Soil Characteristics	Letter Symbol	Graphic Symbol	Water
4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 Grade = 0		3.46'	Gripper cap, locking  stick-up (ft.) (approximate, not surveyed)			
0.5		0 - 6.0"	Brown, muddy organic materials, peat	PT		SAT
1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5		6.0" - 6.53'	Brown mucky organic materials	PT		SAT
7.0 7.5 8.0 8.5 9.0 9.5 10.0		6.53' - 6.59'	Gray Clay	CL		SAT

**Well bottom:**  
6.59 ft. BGS  
10.05 ft. BTOP

**LEGEND:**

- No well-guard installed.
- Bentonite Seal Placed in Annulus.
- Auger cuttings (Peat) placed in Annulus.
- Soils:**
- PT = Peat & other highly organic soils
- CL = Inorganic clays of low to medium plasticity
- Water:**
- SAT = Saturated.



- Cap:** Slip Cap, Locking Gripper (Master key #3476).
- Solid Riser:** 2" ID, Schedule 40 PVC, 3.46 ft. AGS to 1.59 ft. BGS (total 5.05 ft.).
- Screen:** 2" ID, Schedule 40 PVC, 0.010"-Slotted Pre-Pak Sand Well Screen: 1.59 ft. to 6.59 ft. BGS
- Bottom:** Solid bottom cap (~ 0.2 ft.).





## SOIL BORING LOG; WELL CONSTRUCTION RECORD BRW-8S

**Site Name: NEWSVT** ("Black River Wetland Monitoring Well #8 Shallow")  
**Coventry, VT**

WHEM Proj. #: 98330/4-13 Recert 2013-14

Date Installed: 3/5/2014

Drilled by: Waite-Heindel Environmental Mgmt.

Drilling Method: Stainless Steel Hand Auger, 3.5-in. diam.

Logged by: Wendy Krembs

Sampling Method: Auger Cuttings

Development Method: Peristaltic Pump, on 3/11/14

FT.	Well Construction	Interval (ft)	Soil Characteristics	Letter Symbol	Graphic Symbol	Water
6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 Grade = 0		6.0'	Gripper cap, locking  stick-up (ft.) (approximate, not surveyed)			
0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0		0 - 4.0'	Brown, mucky organic materials	PT		SAT
		4.0' - 5.0'	Brown, woody, mucky organic materials	PT		SAT
		5.0' - 5.5'	Brown, mucky organic materials	PT		SAT
		5.5' - 6.0'	Very dark brown clay	CL		SAT
	<b>Well bottom:</b> 6.15 ft. BGS 12.15 ft. BTOP					

**LEGEND:**

- No well-guard installed.
- Bentonite Seal Placed in Annulus.
- Auger cuttings (Peat) placed in Annulus.
- Soils:**
- PT = Peat & other highly organic soils
- CL = Inorganic clays of low to medium plasticity
- Water:**
- SAT = Saturated.



- Cap:** Slip Cap, Locking Gripper (Master key #3476).
- Solid Riser:** 2" ID, Schedule 40 PVC, 6.0 ft. AGS to 1.15 ft. BGS (total 7.15 ft.).
- Screen:** 2" ID, Schedule 40 PVC, 0.010"-Slotted Pre-Pak Sand Well Screen: 1.15 ft. to 6.15 ft. BGS
- Bottom:** Solid bottom cap ( ~ 0.2 ft.).



## SOIL BORING LOG; WELL CONSTRUCTION RECORD BRW-9S

**Site Name: NEWSVT** ("Black River Wetland Monitoring Well #9 Shallow")  
**Coventry, VT**

WHEM Proj. #: 98330/4-13 Recert 2013-14

Date Installed: 3/5/2014

Drilling Method: Stainless Steel Hand Auger, 3.5-in. diam.

Drilled by: Waite-Heindel Environmental Mgmt.

Sampling Method: Auger Cuttings

Logged by: Wendy Krembs

Development Method: Peristaltic Pump, on 3/11/14

FT.	Well Construction	Interval (ft)	Soil Characteristics	Letter Symbol	Graphic Symbol	Water
5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 Grade = 0		5.0'	Gripper cap, locking  stick-up (ft.) (approximate, not surveyed)			
0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0	<p style="text-align: center;"><b>Well bottom:</b> 4.85 ft. BGS 9.85 ft. BTOP</p>	0 - 3.0"	Brown frozen peat	PT		SAT
		3.0" - 2.0'	Very dark-brown peaty mulch			
		2.0' - 4.5'	Very dark brown peaty mulch with woody debris	PT		SAT
		4.5' - 5.0'	Gray clay	CL		SAT

**LEGEND:**

- No well-guard installed.
- Bentonite Seal Placed in Annulus.
- Auger cuttings (Peat) placed in Annulus.
- Soils:**
- PT = Peat & other highly organic soils
- CL = Inorganic clays of low to medium plasticity
- Water:**
- SAT = Saturated.



- Cap:** Slip Cap, Locking Gripper (Master key #3476).
- Solid Riser:** 2" ID, Schedule 40 PVC, 5.0 ft. AGS to 0.15 ft. BGS (total 5.15 ft.).
- Screen:** 2" ID, Schedule 40 PVC, 0.010"-Slotted Pre-Pak Sand Well Screen: 0.15 ft. to 4.85 ft. BGS
- Bottom:** Solid bottom cap (~ 0.2 ft.).



## SOIL BORING LOG; WELL CONSTRUCTION RECORD BRW-10S

**Site Name: NEWSVT** ("Black River Wetland Monitoring Well #10 Shallow")  
**Coventry, VT**

WHEM Proj. #: 98330/4-13 Recert 2013-14

Date Installed: 4/4/2014

Drilled by: Waite-Heindel Environmental Mgmt.

Drilling Method: Stainless Steel Hand Auger, 3.5-in. diam.

Logged by: Wendy Krembs

Sampling Method: Auger Cuttings

Development Method: Disposable Hand Bailer, on 4/4/14

FT.	Well Construction	Interval (ft)	Soil Characteristics	Letter Symbol	Graphic Symbol	Water
5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 Grade = 0		3.5'  Interval (ft)	Gripper cap, locking  stick-up (ft.) (approximate, not surveyed)			
0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0	<p style="text-align: right; margin-right: 20px;"> <b>Well bottom:</b>            11.56 ft. BGS            15.06 ft. BTOP         </p>	0 - 15.0'	Brown peat with some woody debris	PT		SAT

**LEGEND:**

- No well-guard installed.
- Bentonite Seal Placed in Annulus.
- Auger cuttings (Peat) placed in Annulus.
- Soils:**
- PT = Peat & other highly organic soils, some wood
- Water:**
- SAT = Saturated.

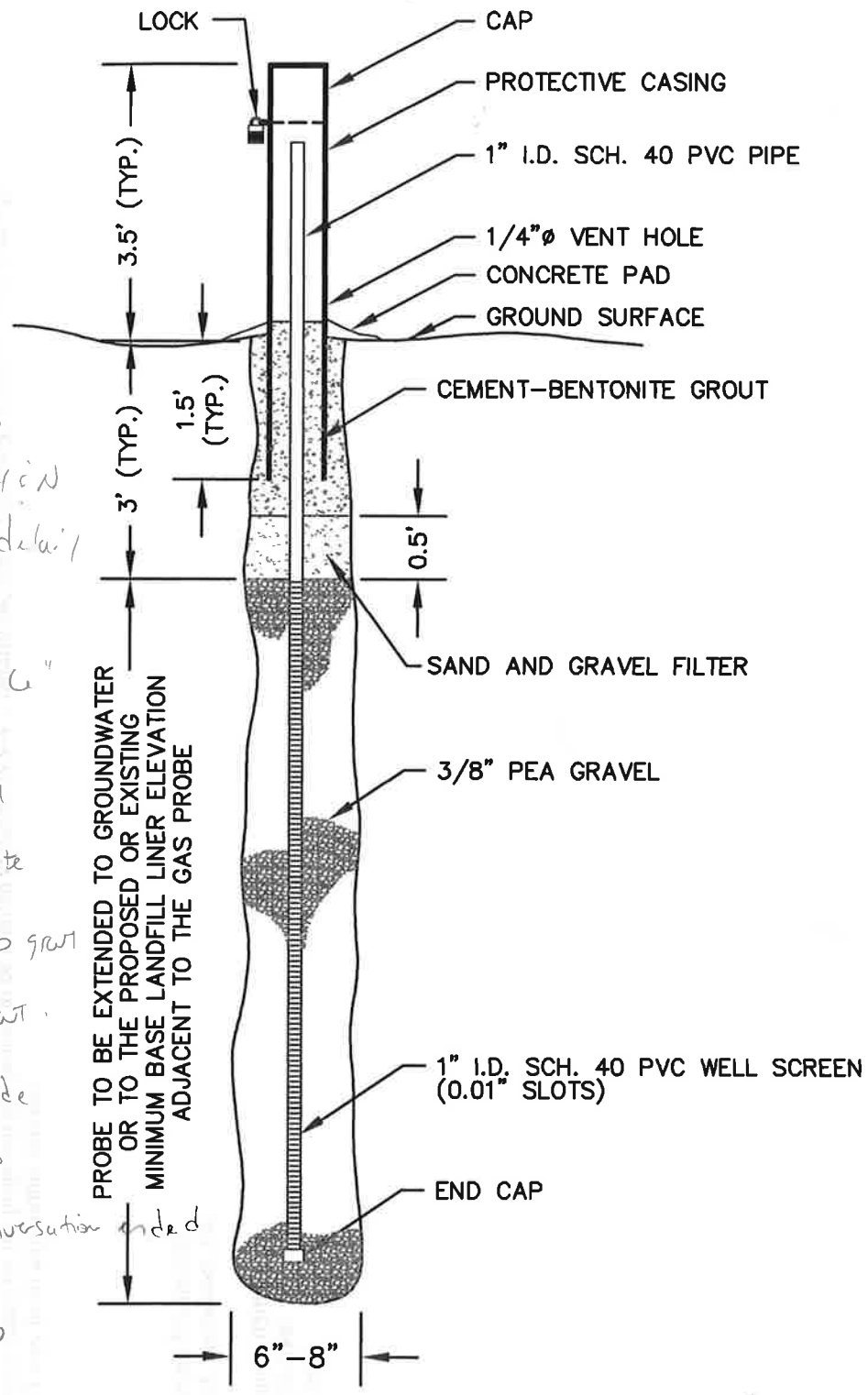


- Cap:** Slip Cap, Locking Gripper (Master key #3476).
- Solid Riser:** 2" ID, Schedule 40 PVC, 3.5 ft. AGS to 6.56 ft. BGS (total 10.06 ft.).
- Screen:** 2" ID, Schedule 40 PVC, 0.010"-Slotted Pre-Pak Sand Well Screen: 6.56 ft. to 11.56 ft. BGS
- Bottom:** Solid bottom cap (~ 0.2 ft.).

IMAGES:

XREFS:

5/8/02  
 Chris Aldrich  
 called from HCN  
 will change detail  
 to have  
 screen stop 6"  
 below top of  
 pea gravel. will  
 add 6" bentonite  
 chips and c/b grout  
 will be B/grout.  
 Chris to provide  
 as-built data to  
 Joe Gray. Conversation ended  
 cordially  
 MKP



PROBE TO BE EXTENDED TO GROUNDWATER  
 OR TO THE PROPOSED OR EXISTING  
 MINIMUM BASE LANDFILL LINER ELEVATION  
 ADJACENT TO THE GAS PROBE

**GAS PROBE DETAIL**

NOT TO SCALE

# **APPENDIX D**



## Laboratory Report

WaiteHeindel Environmental M<sub>5</sub> 070338

PO Box 4602

Burlington, VT 05406

Atten: Miles Waite

PROJECT: NEWSVT LF Ground Water

WORK ORDER: **1302-01599**

DATE RECEIVED: February 05, 2013

DATE REPORTED: February 22, 2013

SAMPLER: Wendy/Chris

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

[www.endynelabs.com](http://www.endynelabs.com)



160 James Brown Dr., Williston, VT 05495  
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766  
Ph 603-678-4891 Fax 603-678-4893



# Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF Ground Water  
 REPORT DATE: 2/22/2013

WORK ORDER: 1302-01599  
 DATE RECEIVED: 02/05/2013

001 Site: BRW-1 Date Sampled: 2/5/13 Time: 12:02

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	3.4	mg/L	EPA 300.0	2/6/13	W CM	A	
COD	35	mg/L	Hach 8000	2/8/13	N CAL	A	
Antimony, Total	< 0.002	mg/L	SM19 3113B	2/15/13	W LG	A	
Arsenic, Total	< 0.001	mg/L	SM19 3113B	2/15/13	W LG	A	
Barium, Total	0.045	mg/L	EPA 200.7	2/20/13	W LJF	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	2/19/13	W LJF	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	2/19/13	W LJF	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	2/19/13	W LJF	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	2/19/13	W LJF	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	2/19/13	W LJF	A	
Iron, Dissolved	27	mg/L	EPA 200.7	2/20/13	W LJF	A	
Iron, Total	31	mg/L	EPA 200.7	2/19/13	W LJF	A	
Lead, Total	< 0.001	mg/L	SM19 3113B	2/19/13	W LG	A	
Manganese, Dissolved	0.94	mg/L	EPA 200.7	2/20/13	W LJF	A	
Manganese, Total	0.92	mg/L	EPA 200.7	2/19/13	W LJF	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	2/7/13	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	2/19/13	W LJF	A	
Selenium, Total	< 0.002	mg/L	SM19 3113B	2/15/13	W LG	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	2/19/13	W LJF	A	
Sodium, Total	7.8	mg/L	EPA 200.7	2/19/13	W LJF	A	
Thallium, Total	< 0.001	mg/L	SM19 3113B	2/15/13	W LG	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	2/19/13	W LJF	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	2/19/13	W LJF	A	

002 Site: BRW-2 Date Sampled: 2/5/13 Time: 12:35

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	< 2.5	mg/L	EPA 300.0	2/6/13	W CM	A	
COD	270	mg/L	Hach 8000	2/8/13	N CAL	A	
Antimony, Total	< 0.002	mg/L	SM19 3113B	2/15/13	W LG	A	
Arsenic, Total	0.002	mg/L	SM19 3113B	2/15/13	W LG	A	
Barium, Total	0.039	mg/L	EPA 200.7	2/20/13	W LJF	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	2/20/13	W LJF	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	2/19/13	W LJF	A	
Chromium, Total	0.011	mg/L	EPA 200.7	2/19/13	W LJF	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	2/19/13	W LJF	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	2/19/13	W LJF	A	
Iron, Dissolved	1.3	mg/L	EPA 200.7	2/20/13	W LJF	A	
Iron, Total	5.8	mg/L	EPA 200.7	2/19/13	W LJF	A	
Lead, Total	0.004	mg/L	SM19 3113B	2/19/13	W LG	A	
Manganese, Dissolved	0.14	mg/L	EPA 200.7	2/20/13	W LJF	A	
Manganese, Total	0.17	mg/L	EPA 200.7	2/19/13	W LJF	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	2/7/13	W CM	A	

# Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
PROJECT: NEWSVT LF Ground Water  
REPORT DATE: 2/22/2013

WORK ORDER: 1302-01599  
DATE RECEIVED: 02/05/2013

002 | Site: BRW-2 | Date Sampled: 2/5/13 | Time: 12:35

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Nickel, Total	0.010	mg/L	EPA 200.7	2/19/13	W LJF	A	
Selenium, Total	< 0.002	mg/L	SM19 3113B	2/15/13	W LG	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	2/19/13	W LJF	A	
Sodium, Total	6.0	mg/L	EPA 200.7	2/19/13	W LJF	A	
Thallium, Total	< 0.001	mg/L	SM19 3113B	2/15/13	W LG	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	2/19/13	W LJF	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	2/19/13	W LJF	A	



# Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF Ground Water  
 REPORT DATE: 2/22/2013

WORK ORDER: 1302-01599  
 DATE RECEIVED: 02/05/2013

## TEST METHOD: EPA 8270C

001 Site: BRW-1					Sampled: 2/5/13	12:02	Test Date: 2/7/13	W	MHM
<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Nelac</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Nelac</u>	<u>Qual</u>
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	N	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	A		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		B/N Surr.1 Nitrobenzene-d5	67	%	A	
B/N Surr.2 2-Fluorobiphenyl	74	%	A		B/N Surr.3 Terphenyl-d14	93	%	A	
Acid Surr.1 2-Fluorophenol	33	%	A		Acid Surr.2 Phenol-d8	25	%	A	
Acid Surr.3 Tribromophenol	77	%	A		Unidentified Peaks	0		U	

# Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF Ground Water  
 REPORT DATE: 2/22/2013

WORK ORDER: 1302-01599  
 DATE RECEIVED: 02/05/2013

## TEST METHOD: EPA 8260B

001 Site: BRW-1					Sampled: 2/5/13	12:02	Test Date: 2/11/13	W MGT	
<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Nelac</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Nelac</u>	<u>Qual</u>
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	A	
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	U		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	U		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	< 1.0	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	N		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	N	
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	U	
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	A	
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	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	N	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	U	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	103	%	A	
Surr. 2 (Toluene d8)	101	%	A		Surr. 3 (4-Bromofluorobenzene)	97	%	A	
Unidentified Peaks	0		U						

# Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF Ground Water  
 REPORT DATE: 2/22/2013

WORK ORDER: 1302-01599  
 DATE RECEIVED: 02/05/2013

## TEST METHOD: EPA 8270C

002 Site: BRW-2				Sampled: 2/5/13 12:35		Test Date: 2/7/13		W MHM	
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	N	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	A		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		B/N Surr.1 Nitrobenzene-d5	61	%	A	
B/N Surr.2 2-Fluorobiphenyl	66	%	A		B/N Surr.3 Terphenyl-d14	89	%	A	
Acid Surr.1 2-Fluorophenol	29	%	A		Acid Surr.2 Phenol-d8	22	%	A	
Acid Surr.3 Tribromophenol	77	%	A		Unidentified Peaks	0		U	

# Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF Ground Water  
 REPORT DATE: 2/22/2013

WORK ORDER: 1302-01599  
 DATE RECEIVED: 02/05/2013

**TEST METHOD: EPA 8260B**

002 Site: BRW-2				Sampled: 2/5/13		12:35	Test Date: 2/11/13		W MGT
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	A	
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	U		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	U		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	< 1.0	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	N		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	N	
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	U	
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	A	
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	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	N	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	U	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	105	%	A	
Surr. 3 (4-Bromofluorobenzene)	95	%	A		Surr. 2 (Toluene d8)	101	%	A	
Unidentified Peaks	0		U						

# Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF Ground Water  
 REPORT DATE: 2/22/2013

WORK ORDER: 1302-01599  
 DATE RECEIVED: 02/05/2013

**TEST METHOD: EPA 8260B**

003 Site: Trip Blank					Sampled: 2/4/13	9:50	Test Date: 2/11/13	W MGT	
<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Nelac</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Nelac</u>	<u>Qual</u>
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	A	
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	U		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	U		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	< 1.0	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	N		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	N	
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	U	
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	A	
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	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	N	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	U	
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	%	A	
Surr. 2 (Toluene d8)	100	%	A		Surr. 3 (4-Bromofluorobenzene)	96	%	A	
Unidentified Peaks	0		U						



## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT May BRW3S  
 WORK ORDER: **1305-08369**  
 DATE RECEIVED: May 21, 2013  
 DATE REPORTED: June 18, 2013  
 SAMPLER: Wendy

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

[www.endynelabs.com](http://www.endynelabs.com)



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 Ph 802-879-4333 Fax 802-879-7103

d, Lebanon, NH 03766  
 Ph 603-678-4891 Fax 603-678-4893



## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
PROJECT: NEWSVT May BRW3S  
REPORT DATE: 6/18/2013

WORK ORDER: 1305-08369  
DATE RECEIVED: 05/21/2013

001 Site: BRW-3S Date Sampled: 5/21/13 Time: 12:39

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Chloride	< 2.5	mg/L	SM20 4500Cl-E	5/29/13	N JGM	A	
COD	17	mg/L	Hach 8000	5/28/13	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM19 3113B	6/4/13	W LG	A	
Arsenic, Total	< 0.001	mg/L	SM19 3113B	6/4/13	W AM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	6/12/13	W LJF	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	6/12/13	W LJF	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	6/12/13	W LJF	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	6/12/13	W LJF	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	6/12/13	W LJF	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	6/12/13	W LJF	A	
Iron, Dissolved	0.089	mg/L	EPA 200.7	6/13/13	W LJF	A	
Iron, Total	0.21	mg/L	EPA 200.7	6/12/13	W LJF	A	
Lead, Total	< 0.001	mg/L	SM19 3113B	5/31/13	W LG	A	
Manganese, Dissolved	0.12	mg/L	EPA 200.7	6/13/13	W LJF	A	
Manganese, Total	0.12	mg/L	EPA 200.7	6/12/13	W LJF	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	6/4/13	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	6/12/13	W LJF	A	
Selenium, Total	< 0.002	mg/L	SM19 3113B	6/3/13	W AM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	6/13/13	W LJF	A	
Sodium, Total	7.0	mg/L	EPA 200.7	6/12/13	W LJF	A	
Thallium, Total	< 0.001	mg/L	SM19 3113B	6/5/13	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	6/12/13	W LJF	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	6/12/13	W LJF	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT May BRW3S  
 REPORT DATE: 6/18/2013

WORK ORDER: 1305-08369  
 DATE RECEIVED: 05/21/2013

TEST METHOD: EPA 8260B

001	Site: BRW-3S					Sampled: 5/21/13	12:39	Test Date: 5/30/13	W	MHM
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual	
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	A		
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	U		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	< 1.0	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	N		
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	A		
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	< 1.0	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	U		
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	%	A		
Surr. 3 (4-Bromofluorobenzene)	98	%	A		Surr. 2 (Toluene d8)	98	%	A		
Unidentified Peaks	0		U							





## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT LF BRW-3S  
 WORK ORDER: **1306-10431**  
 DATE RECEIVED: June 14, 2013  
 DATE REPORTED: July 11, 2013  
 SAMPLER: Wendy

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

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d, Lebanon, NH 03766  
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## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF BRW-3S  
 REPORT DATE: 7/11/2013

WORK ORDER: **1306-10431**  
 DATE RECEIVED: 06/14/2013

001	Site: BRW-3S	Date Sampled: 6/13/13	Time: 10:50
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<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Chloride	< 2.5	mg/L	EPA 300.0	6/15/13	W CM	A	
COD	< 10	mg/L	Hach 8000	6/21/13	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM19 3113B	7/2/13	W AWM	A	
Arsenic, Total	< 0.001	mg/L	SM19 3113B	6/26/13	W AWM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	7/5/13	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	7/9/13	W RGT	A	
Calcium, Total	34	mg/L	EPA 200.7	7/5/13	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	7/5/13	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	7/9/13	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	7/5/13	W RGT	A	
Iron, Dissolved	0.081	mg/L	EPA 200.7	7/5/13	W RGT	A	
Iron, Total	0.14	mg/L	EPA 200.7	7/5/13	W RGT	A	B
Lead, Total	< 0.001	mg/L	SM19 3113B	6/25/13	W AWM	A	
Manganese, Dissolved	0.083	mg/L	EPA 200.7	7/5/13	W RGT	A	
Manganese, Total	0.075	mg/L	EPA 200.7	7/5/13	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	6/19/13	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	7/5/13	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM19 3113B	6/28/13	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	7/5/13	W RGT	A	
Sodium, Total	7.2	mg/L	EPA 200.7	7/5/13	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM19 3113B	6/27/13	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	7/5/13	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	7/9/13	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF BRW-3S  
 REPORT DATE: 7/11/2013

WORK ORDER: 1306-10431  
 DATE RECEIVED: 06/14/2013

TEST METHOD: EPA 8260B

001	Site: BRW-3S					Sampled: 6/13/13	10:50	Test Date: 6/17/13	W	MHM
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual	
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	A		
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	U		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	N		
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	A		
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	U		
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A		
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	107	%	A		
Surr. 3 (4-Bromofluorobenzene)	110	%	A		Surr. 2 (Toluene d8)	103	%	A		
Unidentified Peaks	0		U							



## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT LF BRW-3S  
 WORK ORDER: **1307-12261**  
 DATE RECEIVED: July 08, 2013  
 DATE REPORTED: July 26, 2013  
 SAMPLER: Chris Page

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

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## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF BRW-3S  
 REPORT DATE: 7/26/2013

WORK ORDER: 1307-12261  
 DATE RECEIVED: 07/08/2013

001	Site: BRW-3S	Date Sampled: 7/8/13	Time: 12:32
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<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Chloride	< 2.5	mg/L	EPA 300.0	7/9/13	W CM	A	
COD	15	mg/L	Hach 8000	7/18/13	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM19 3113B	7/19/13	W AWM	A	
Arsenic, Total	< 0.001	mg/L	SM19 3113B	7/12/13	W AWM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	7/17/13	W RGT	A	
Beryllium, Total	0.001	mg/L	EPA 200.7	7/17/13	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	7/17/13	W RGT	A	
Calcium, Total	30	mg/L	EPA 200.7	7/17/13	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	7/17/13	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	7/17/13	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	7/17/13	W RGT	A	
Iron, Dissolved	0.056	mg/L	EPA 200.7	7/18/13	W RGT	A	
Iron, Total	0.11	mg/L	EPA 200.7	7/17/13	W RGT	A	
Lead, Total	< 0.001	mg/L	SM19 3113B	7/12/13	W AWM	A	
Manganese, Dissolved	0.096	mg/L	EPA 200.7	7/18/13	W RGT	A	
Manganese, Total	0.10	mg/L	EPA 200.7	7/17/13	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	7/10/13	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	7/17/13	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM19 3113B	7/24/13	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	7/17/13	W RGT	A	
Sodium, Total	6.3	mg/L	EPA 200.7	7/17/13	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM19 3113B	7/24/13	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	7/17/13	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	7/17/13	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF BRW-3S  
 REPORT DATE: 7/26/2013

WORK ORDER: 1307-12261  
 DATE RECEIVED: 07/08/2013

TEST METHOD: EPA 8270C

001	Site: BRW-3S			Sampled: 7/8/13	12:32	Test Date: 7/9/13	W	FAA	
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	A		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	mg/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 3.0	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	59	%	A		B/N Surr.2 2-Fluorobiphenyl	57	%	A	
B/N Surr.3 Terphenyl-d14	86	%	A		Acid Surr.1 2-Fluorophenol	29	%	A	
Acid Surr.2 Phenol-d8	22	%	A		Acid Surr.3 Tribromophenol	88	%	A	
Unidentified Peaks	0		U						

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF BRW-3S  
 REPORT DATE: 7/26/2013

WORK ORDER: 1307-12261  
 DATE RECEIVED: 07/08/2013

TEST METHOD: EPA 8260B

001	Site: BRW-3S					Sampled: 7/8/13	12:32	Test Date: 7/9/13	W	MHM
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual	
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	A		
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	< 2.0	ug/L	A		
Tetrahydrofuran	< 10.0	ug/L	U		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	< 1.0	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	N		
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	A		
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	< 1.0	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	U		
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A		
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	110	%	A		
Surr. 3 (4-Bromofluorobenzene)	94	%	A		Surr. 2 (Toluene d8)	101	%	A		
Unidentified Peaks	0		U							



## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT WQ (2 Wells)  
 WORK ORDER: **1307-13946**  
 DATE RECEIVED: July 25, 2013  
 DATE REPORTED: August 14, 2013  
 SAMPLER: Wendy

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

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160 James Brown Dr., Williston, VT 05495  
 Ph 802-879-4333 Fax 802-879-7103

d, Lebanon, NH 03766  
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**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT WQ (2 Wells)  
 REPORT DATE: 8/14/2013

WORK ORDER: 1307-13946  
 DATE RECEIVED: 07/25/2013

001 Site: BRW-3S Date Sampled: 7/25/13 Time: 12:36

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	< 2.5	mg/L	SM20 4500CI-E	7/31/13	N JGM	A	
COD	14	mg/L	Hach 8000	8/5/13	N JGM	A	
Antimony, Total	< 0.050	mg/L	EPA 200.7	8/13/13	W RGT	N	
Arsenic, Total	< 0.020	mg/L	EPA 200.7	8/13/13	W RGT	N	
Barium, Total	< 0.020	mg/L	EPA 200.7	8/13/13	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	8/13/13	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	8/13/13	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	8/13/13	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	8/13/13	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	8/13/13	W RGT	A	
Iron, Dissolved	0.040	mg/L	EPA 200.7	8/13/13	W RGT	A	
Iron, Total	0.069	mg/L	EPA 200.7	8/13/13	W RGT	A	AN1
Lead, Total	< 0.001	mg/L	SM19 3113B	8/6/13	W AWM	A	
Manganese, Dissolved	0.093	mg/L	EPA 200.7	8/13/13	W RGT	A	
Manganese, Total	0.090	mg/L	EPA 200.7	8/13/13	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	7/30/13	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	8/13/13	W RGT	A	AN1
Selenium, Total	< 0.002	mg/L	SM19 3113B	8/8/13	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	8/13/13	W RGT	A	
Sodium, Total	6.2	mg/L	EPA 200.7	8/13/13	W RGT	A	
Thallium, Total	< 0.050	mg/L	EPA 200.7	8/13/13	W RGT	N	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	8/13/13	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	8/13/13	W RGT	A	

002 Site: GP-4 Date Sampled: 7/25/13 Time: 14:15

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	98	mg/L	SM20 4500CI-E	7/31/13	N JGM	A	
COD	290	mg/L	Hach 8000	8/5/13	N JGM	A	
Antimony, Total	< 0.050	mg/L	EPA 200.7	8/13/13	W RGT	N	
Arsenic, Total	< 0.020	mg/L	EPA 200.7	8/13/13	W RGT	N	
Barium, Total	0.053	mg/L	EPA 200.7	8/13/13	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	8/13/13	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	8/13/13	W RGT	A	
Chromium, Total	0.031	mg/L	EPA 200.7	8/13/13	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	8/13/13	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	8/13/13	W RGT	A	
Iron, Dissolved	0.037	mg/L	EPA 200.7	8/13/13	W RGT	A	
Iron, Total	19	mg/L	EPA 200.7	8/13/13	W RGT	A	
Lead, Total	0.007	mg/L	SM19 3113B	8/6/13	W AWM	A	
Manganese, Dissolved	0.39	mg/L	EPA 200.7	8/13/13	W RGT	A	
Manganese, Total	0.45	mg/L	EPA 200.7	8/13/13	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	7/30/13	W CM	A	
Nickel, Total	0.082	mg/L	EPA 200.7	8/13/13	W RGT	A	

### Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
PROJECT: NEWSVT WQ (2 Wells)  
REPORT DATE: 8/14/2013

WORK ORDER: 1307-13946  
DATE RECEIVED: 07/25/2013

002 Site: GP-4 Date Sampled: 7/25/13 Time: 14:15

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Selenium, Total	< 0.002	mg/L	SM19 3113B	8/8/13	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	8/13/13	W RGT	A	
Sodium, Total	8.6	mg/L	EPA 200.7	8/13/13	W RGT	A	
Thallium, Total	< 0.050	mg/L	EPA 200.7	8/13/13	W RGT	N	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	8/13/13	W RGT	A	
Zinc, Total	0.044	mg/L	EPA 200.7	8/13/13	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT WQ (2 Wells)  
 REPORT DATE: 8/14/2013

WORK ORDER: 1307-13946  
 DATE RECEIVED: 07/25/2013

TEST METHOD: EPA 8260B

001	Site: BRW-3S					Sampled: 7/25/13	12:36	Test Date: 8/2/13	W	MHM
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual	
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	A		
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	U		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	< 1.0	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	N		
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	A		
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	< 1.0	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	U		
Hexachlorobutadiene	0.7	ug/L	N		Naphthalene	< 2.0	ug/L	A		
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	125	%	A		
Surr. 2 (Toluene d8)	107	%	A		Surr. 3 (4-Bromofluorobenzene)	96	%	A		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT WQ (2 Wells)  
 REPORT DATE: 8/14/2013

WORK ORDER: 1307-13946  
 DATE RECEIVED: 07/25/2013

TEST METHOD: EPA 8260B

002	Site: GP-4					Sampled: 7/25/13	14:15	Test Date: 8/2/13	W	MHM
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual	
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	A		
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	U		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	< 1.0	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	N		
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	A		
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	< 1.0	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	U		
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A		
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	125	%	A		
Surr. 3 (4-Bromofluorobenzene)	94	%	A		Surr. 2 (Toluene d8)	91	%	A		
Unidentified Peaks	0		U							



## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT Sept BRW  
 WORK ORDER: **1309-19049**  
 DATE RECEIVED: September 25, 2013  
 DATE REPORTED: October 08, 2013  
 SAMPLER: Wendy

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

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160 James Brown Dr., Williston, VT 05495  
 Ph 802-879-4333 Fax 802-879-7103

d, Lebanon, NH 03766  
 Ph 603-678-4891 Fax 603-678-4893



## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Sept BRW  
 REPORT DATE: 10/8/2013

WORK ORDER: 1309-19049  
 DATE RECEIVED: 09/25/2013

001 Site: BRW-3S Date Sampled: 9/24/13 Time: 14:31

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	< 2.5	mg/L	EPA 300.0	9/25/13	W CM	A	
COD	13	mg/L	Hach 8000	9/27/13	N CAL	A	
Antimony, Total	< 0.002	mg/L	SM19 3113B	9/30/13	W AWM	A	
Arsenic, Total	< 0.001	mg/L	SM19 3113B	10/3/13	W AWM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/3/13	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/3/13	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/3/13	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/3/13	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/3/13	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/3/13	W RGT	A	
Iron, Dissolved	0.031	mg/L	EPA 200.7	10/3/13	W RGT	A	
Iron, Total	0.044	mg/L	EPA 200.7	10/3/13	W RGT	A	B
Lead, Total	< 0.001	mg/L	SM19 3113B	10/3/13	W AWM	A	
Manganese, Dissolved	0.087	mg/L	EPA 200.7	10/3/13	W RGT	A	
Manganese, Total	0.091	mg/L	EPA 200.7	10/3/13	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/1/13	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/3/13	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM19 3113B	10/2/13	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/3/13	W RGT	A	
Sodium, Total	6.6	mg/L	EPA 200.7	10/3/13	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM19 3113B	9/30/13	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/3/13	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/3/13	W RGT	A	

002 Site: BRW-3D Date Sampled: 9/24/13 Time: 13:30

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	3.8	mg/L	EPA 300.0	9/25/13	W CM	A	
COD	24	mg/L	Hach 8000	9/27/13	N CAL	A	
Antimony, Total	< 0.002	mg/L	SM19 3113B	9/30/13	W AWM	A	
Arsenic, Total	0.007	mg/L	SM19 3113B	10/3/13	W AWM	A	
Barium, Total	0.026	mg/L	EPA 200.7	10/3/13	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/3/13	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/3/13	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/3/13	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/3/13	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/3/13	W RGT	A	
Iron, Dissolved	0.021	mg/L	EPA 200.7	10/3/13	W RGT	A	
Iron, Total	1.4	mg/L	EPA 200.7	10/3/13	W RGT	A	B
Lead, Total	< 0.001	mg/L	SM19 3113B	10/3/13	W AWM	A	
Manganese, Dissolved	0.032	mg/L	EPA 200.7	10/3/13	W RGT	A	
Manganese, Total	0.12	mg/L	EPA 200.7	10/3/13	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/1/13	W CM	A	
Nickel, Total	0.008	mg/L	EPA 200.7	10/3/13	W RGT	A	

# Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
PROJECT: NEWSVT Sept BRW  
REPORT DATE: 10/8/2013

WORK ORDER: 1309-19049  
DATE RECEIVED: 09/25/2013

002 Site: BRW-3D Date Sampled: 9/24/13 Time: 13:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Selenium, Total	< 0.002	mg/L	SM19 3113B	10/2/13	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/3/13	W RGT	A	
Sodium, Total	8.5	mg/L	EPA 200.7	10/3/13	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM19 3113B	9/30/13	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/3/13	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/3/13	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Sept BRW  
 REPORT DATE: 10/8/2013

WORK ORDER: 1309-19049  
 DATE RECEIVED: 09/25/2013

TEST METHOD: EPA 8270C

001	Site: BRW-3S			Sampled: 9/24/13	14:31	Test Date: 9/25/13	W	FAA	
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	A		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	64	%	A		B/N Surr.2 2-Fluorobiphenyl	73	%	A	
B/N Surr.3 Terphenyl-d14	96	%	A		Acid Surr.1 2-Fluorophenol	33	%	A	
Acid Surr.2 Phenol-d8	25	%	A		Acid Surr.3 Tribromophenol	86	%	A	
Unidentified Peaks	0		U						



**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Sept BRW  
 REPORT DATE: 10/8/2013

WORK ORDER: 1309-19049  
 DATE RECEIVED: 09/25/2013

TEST METHOD: EPA 8260B

001	Site: BRW-3S					Sampled: 9/24/13	14:31	Test Date: 9/30/13	W	MHM
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual	
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	A		
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	U		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	< 1.0	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	N		
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	A		
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	U		
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A		
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	109	%	A		
Surr. 2 (Toluene d8)	98	%	A		Surr. 3 (4-Bromofluorobenzene)	94	%	A		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Sept BRW  
 REPORT DATE: 10/8/2013

WORK ORDER: 1309-19049  
 DATE RECEIVED: 09/25/2013

TEST METHOD: EPA 8270C

002	Site: BRW-3D			Sampled: 9/24/13	13:30	Test Date: 9/25/13	W	FAA	
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	A		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	62	%	A		B/N Surr.2 2-Fluorobiphenyl	69	%	A	
B/N Surr.3 Terphenyl-d14	95	%	A		Acid Surr.1 2-Fluorophenol	33	%	A	
Acid Surr.2 Phenol-d8	23	%	A		Acid Surr.3 Tribromophenol	81	%	A	
Unidentified Peaks	0		U						

## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Sept BRW  
 REPORT DATE: 10/8/2013

WORK ORDER: 1309-19049  
 DATE RECEIVED: 09/25/2013

### TEST METHOD: EPA 8260B

002 Site: BRW-3D					Sampled: 9/24/13 13:30					Test Date: 9/30/13	W MHM
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual		
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	A			
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	7.8	ug/L	A			
Tetrahydrofuran	< 10.0	ug/L	U		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	< 1.0	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	N			
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	A			
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	U			
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A			
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	107	%	A			
Surr. 3 (4-Bromofluorobenzene)	96	%	A		Surr. 2 (Toluene d8)	98	%	A			
Unidentified Peaks	0		U								



## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT WQ Compliance  
 WORK ORDER: **1310-20539**  
 DATE RECEIVED: October 10, 2013  
 DATE REPORTED: October 25, 2013  
 SAMPLER: WK

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

[www.endynelabs.com](http://www.endynelabs.com)



160 James Brown Dr., Williston, VT 05495  
 Ph 802-879-4333 Fax 802-879-7103

d, Lebanon, NH 03766  
 Ph 603-678-4891 Fax 603-678-4893



## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT WQ Compliance  
 REPORT DATE: 10/25/2013

WORK ORDER: **1310-20539**  
 DATE RECEIVED: 10/10/2013

001 Site: BRW-3S Date Sampled: 10/10/13 Time: 12:23

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	< 2.5	mg/L	SM20 4500CI-E	10/16/13	N CAL	A	
COD	< 10	mg/L	Hach 8000	10/16/13	N CAL	A	
Antimony, Total	< 0.002	mg/L	SM19 3113B	10/25/13	W AWM	A	
Arsenic, Total	< 0.001	mg/L	SM19 3113B	10/18/13	W AWM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/18/13	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/18/13	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/18/13	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	
Iron, Dissolved	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	
Iron, Total	0.047	mg/L	EPA 200.7	10/18/13	W RGT	A	
Lead, Total	< 0.001	mg/L	SM19 3113B	10/18/13	W AWM	A	
Manganese, Dissolved	0.073	mg/L	EPA 200.7	10/18/13	W RGT	A	
Manganese, Total	0.074	mg/L	EPA 200.7	10/18/13	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/25/13	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/18/13	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM19 3113B	10/23/13	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	
Sodium, Total	6.5	mg/L	EPA 200.7	10/18/13	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM19 3113B	10/24/13	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	

002 Site: BRW-3D Date Sampled: 10/10/13 Time: 11:49

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	3.2	mg/L	SM20 4500CI-E	10/16/13	N CAL	A	
COD	< 10	mg/L	Hach 8000	10/16/13	N CAL	A	
Antimony, Total	< 0.002	mg/L	SM19 3113B	10/25/13	W AWM	A	
Arsenic, Total	0.006	mg/L	SM19 3113B	10/18/13	W AWM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/18/13	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/18/13	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/18/13	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	
Iron, Dissolved	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	
Iron, Total	0.36	mg/L	EPA 200.7	10/18/13	W RGT	A	
Lead, Total	< 0.001	mg/L	SM19 3113B	10/18/13	W AWM	A	
Manganese, Dissolved	0.033	mg/L	EPA 200.7	10/18/13	W RGT	A	
Manganese, Total	0.034	mg/L	EPA 200.7	10/18/13	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/25/13	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/18/13	W RGT	A	

### Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
PROJECT: NEWSVT WQ Compliance  
REPORT DATE: 10/25/2013

WORK ORDER: 1310-20539  
DATE RECEIVED: 10/10/2013

002 Site: BRW-3D Date Sampled: 10/10/13 Time: 11:49

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Selenium, Total	< 0.002	mg/L	SM19 3113B	10/23/13	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	
Sodium, Total	8.0	mg/L	EPA 200.7	10/18/13	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM19 3113B	10/24/13	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/18/13	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT WQ Compliance  
 REPORT DATE: 10/25/2013

WORK ORDER: 1310-20539  
 DATE RECEIVED: 10/10/2013

TEST METHOD: EPA 8260B

001	Site: BRW-3S			Sampled: 10/10/13	12:23	Test Date: 10/18/13	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	U		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-Amyl methyl 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	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	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	N		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	< 1.0	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	U	
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. 3 (4-Bromofluorobenzene)	94	%	N		Surr. 2 (Toluene d8)	93	%	N	
Unidentified Peaks	0		U						

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT WQ Compliance  
 REPORT DATE: 10/25/2013

WORK ORDER: 1310-20539  
 DATE RECEIVED: 10/10/2013

TEST METHOD: EPA 8260B

002	Site: BRW-3D				Sampled: 10/10/13 11:49	Test Date: 10/18/13			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	6.8	ug/L	A		
Tetrahydrofuran	< 10.0	ug/L	U		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	0.7	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A		
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A		
trans-1,3-Dichloropropene	< 1.0	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	N		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	< 1.0	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	U		
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A		
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	101	%	N		
Surr. 2 (Toluene d8)	93	%	N		Surr. 3 (4-Bromofluorobenzene)	97	%	N		
Unidentified Peaks	0		U							





## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT Oct BRW  
 WORK ORDER: **1310-21693**  
 DATE RECEIVED: October 29, 2013  
 DATE REPORTED: November 13, 2013  
 SAMPLER: Wendy

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

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## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Oct BRW  
 REPORT DATE: 11/13/2013

WORK ORDER: **1310-21693**  
 DATE RECEIVED: 10/29/2013

001 Site: BRW-3D Date Sampled: 10/29/13 Time: 11:36

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	< 2.5	mg/L	EPA 300.0	10/29/13	W CM	A	
COD	17	mg/L	Hach 8000	11/4/01	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	11/4/13	W AWM	A	
Arsenic, Total	0.013	mg/L	SM20 3113B	11/5/13	W AWM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	11/11/13	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	11/11/13	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	11/11/13	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	11/11/13	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	11/11/13	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	11/11/13	W RGT	A	
Iron, Dissolved	0.070	mg/L	EPA 200.7	11/1/13	W RGT	A	
Iron, Total	0.080	mg/L	EPA 200.7	11/11/13	W RGT	A	
Lead, Total	0.001	mg/L	SM20 3113B	11/4/13	W AWM	A	
Manganese, Dissolved	0.032	mg/L	EPA 200.7	11/1/13	W RGT	A	
Manganese, Total	0.061	mg/L	EPA 200.7	11/11/13	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	11/12/13	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	11/11/13	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	11/4/13	W AWM	A	AN1
Silver, Total	< 0.020	mg/L	EPA 200.7	11/11/13	W RGT	A	
Sodium, Total	6.9	mg/L	EPA 200.7	11/11/13	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	11/4/13	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	11/11/13	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	11/11/13	W RGT	A	

002 Site: BRW-3S Date Sampled: 10/29/13 Time: 12:14

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	< 2.5	mg/L	EPA 300.0	10/29/13	W CM	A	
COD	15	mg/L	Hach 8000	11/4/01	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	11/4/13	W AWM	A	
Arsenic, Total	< 0.001	mg/L	SM20 3113B	11/5/13	W AWM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	11/11/13	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	11/11/13	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	11/11/13	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	11/11/13	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	11/11/13	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	11/11/13	W RGT	A	
Iron, Dissolved	< 0.020	mg/L	EPA 200.7	11/1/13	W RGT	A	
Iron, Total	0.17	mg/L	EPA 200.7	11/11/13	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	11/4/13	W AWM	A	
Manganese, Dissolved	0.069	mg/L	EPA 200.7	11/1/13	W RGT	A	
Manganese, Total	0.067	mg/L	EPA 200.7	11/11/13	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	11/12/13	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	11/11/13	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
PROJECT: NEWSVT Oct BRW  
REPORT DATE: 11/13/2013

WORK ORDER: **1310-21693**  
DATE RECEIVED: 10/29/2013

002 Site: BRW-3S Date Sampled: 10/29/13 Time: 12:14

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Selenium, Total	< 0.002	mg/L	SM20 3113B	11/4/13	W AWM	A	AN1
Silver, Total	< 0.020	mg/L	EPA 200.7	11/11/13	W RGT	A	
Sodium, Total	6.9	mg/L	EPA 200.7	11/11/13	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	11/4/13	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	11/11/13	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	11/11/13	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Oct BRW  
 REPORT DATE: 11/13/2013

WORK ORDER: 1310-21693  
 DATE RECEIVED: 10/29/2013

TEST METHOD: EPA 8260C

001	Site: BRW-3D					Sampled: 10/29/13 11:36	Test Date: 11/4/13 W MHM			
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	U		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	< 1.0	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	N		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	U		
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A		
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	91	%	N		
Surr. 2 (Toluene d8)	98	%	N		Surr. 3 (4-Bromofluorobenzene)	93	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Oct BRW  
 REPORT DATE: 11/13/2013

WORK ORDER: 1310-21693  
 DATE RECEIVED: 10/29/2013

TEST METHOD: EPA 8260C

002	Site: BRW-3S					Sampled: 10/29/13 12:14	Test Date: 11/4/13				W MHM
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	U		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	< 1.0	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	N		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	U			
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A			
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	99	%	N			
Surr. 3 (4-Bromofluorobenzene)	96	%	N		Surr. 2 (Toluene d8)	98	%	N			
Unidentified Peaks	0		U								



## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT Feb BRW  
 WORK ORDER: **1402-03448**  
 DATE RECEIVED: February 26, 2014  
 DATE REPORTED: March 06, 2014  
 SAMPLER: Wendy/Chris

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

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 Ph 603-678-4891 Fax 603-678-4893



## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Feb BRW  
 REPORT DATE: 3/6/2014

WORK ORDER: 1402-03448  
 DATE RECEIVED: 02/26/2014

001 Site: BRW-1 Date Sampled: 2/24/14 Time: 11:40

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	< 2.5	mg/L	EPA 300.0	2/26/14	W CM	A	
COD	37	mg/L	Hach 8000	3/4/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	3/3/14	W AWM	A	
Arsenic, Total	0.003	mg/L	SM20 3113B	2/28/14	W AWM	A	
Barium, Total	0.056	mg/L	EPA 200.7	3/4/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/4/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/4/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	3/4/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/4/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/4/14	W RGT	A	
Iron, Dissolved	35	mg/L	EPA 200.7	2/27/14	W RGT	A	
Iron, Total	38	mg/L	EPA 200.7	3/4/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	2/28/14	W AWM	A	
Manganese, Dissolved	1.1	mg/L	EPA 200.7	2/27/14	W RGT	A	
Manganese, Total	1.2	mg/L	EPA 200.7	3/4/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/6/14	W CM	A	
Nickel, Total	0.006	mg/L	EPA 200.7	3/4/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	3/3/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/4/14	W RGT	A	
Sodium, Total	8.9	mg/L	EPA 200.7	3/4/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	2/27/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/4/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/4/14	W RGT	A	

002 Site: BRW-2 Date Sampled: 2/24/14 Time: 10:25

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	< 2.5	mg/L	EPA 300.0	2/26/14	W CM	A	
COD	17	mg/L	Hach 8000	3/4/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	3/3/14	W AWM	A	
Arsenic, Total	0.002	mg/L	SM20 3113B	2/28/14	W AWM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	3/4/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/4/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/4/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	3/4/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/4/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/4/14	W RGT	A	
Iron, Dissolved	1.4	mg/L	EPA 200.7	2/27/14	W RGT	A	
Iron, Total	2.3	mg/L	EPA 200.7	3/4/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	2/28/14	W AWM	A	
Manganese, Dissolved	0.12	mg/L	EPA 200.7	2/27/14	W RGT	A	
Manganese, Total	0.13	mg/L	EPA 200.7	3/4/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/6/14	W CM	A	
Nickel, Total	0.006	mg/L	EPA 200.7	3/4/14	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
PROJECT: NEWSVT Feb BRW  
REPORT DATE: 3/6/2014

WORK ORDER: 1402-03448  
DATE RECEIVED: 02/26/2014

002 Site: BRW-2 Date Sampled: 2/24/14 Time: 10:25

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Selenium, Total	< 0.002	mg/L	SM20 3113B	3/3/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/4/14	W RGT	A	
Sodium, Total	6.0	mg/L	EPA 200.7	3/4/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	2/27/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/4/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/4/14	W RGT	A	



**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Feb BRW  
 REPORT DATE: 3/6/2014

WORK ORDER: 1402-03448  
 DATE RECEIVED: 02/26/2014

TEST METHOD: EPA 8270D

001	Site: BRW-1			Sampled: 2/24/14	11:40	Test Date: 2/28/14	W	FAA	
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	N		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	AN1
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	73	%	N		B/N Surr.2 2-Fluorobiphenyl	75	%	N	
B/N Surr.3 Terphenyl-d14	97	%	N		Acid Surr.1 2-Fluorophenol	36	%	N	
Acid Surr.2 Phenol-d8	27	%	N		Acid Surr.3 Tribromophenol	93	%	N	
Unidentified Peaks	0		U						

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Feb BRW  
 REPORT DATE: 3/6/2014

WORK ORDER: 1402-03448  
 DATE RECEIVED: 02/26/2014

TEST METHOD: EPA 8260C

001	Site: BRW-1					Sampled: 2/24/14	11:40	Test Date: 2/26/14	W	MHM
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	QA-	
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	U		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	< 1.0	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)	110	%	N		
Surr. 2 (Toluene d8)	108	%	N		Surr. 3 (4-Bromofluorobenzene)	94	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Feb BRW  
 REPORT DATE: 3/6/2014

WORK ORDER: 1402-03448  
 DATE RECEIVED: 02/26/2014

TEST METHOD: EPA 8270D

002	Site: BRW-2			Sampled: 2/24/14	10:25	Test Date: 2/28/14	W	FAA	
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	N		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	78	%	N		B/N Surr.2 2-Fluorobiphenyl	77	%	N	
B/N Surr.3 Terphenyl-d14	93	%	N		Acid Surr.1 2-Fluorophenol	41	%	N	
Acid Surr.2 Phenol-d8	31	%	N		Acid Surr.3 Tribromophenol	87	%	N	
Unidentified Peaks	0		U						

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT Feb BRW  
 REPORT DATE: 3/6/2014

WORK ORDER: 1402-03448  
 DATE RECEIVED: 02/26/2014

TEST METHOD: EPA 8260C

002	Site: BRW-2					Sampled: 2/24/14	10:25	Test Date: 2/26/14	W	MHM
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	QA-	
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	U		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	< 1.0	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)	109	%	N		
Surr. 3 (4-Bromofluorobenzene)	94	%	N		Surr. 2 (Toluene d8)	105	%	N		
Unidentified Peaks	0		U							



## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT BRW Wetland Wells

WORK ORDER: **1403-04477**

DATE RECEIVED: March 13, 2014

DATE REPORTED: March 27, 2014

SAMPLER: WK/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

[www.endynelabs.com](http://www.endynelabs.com)



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## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

001 Site: BRW-4S Date Sampled: 3/12/14 Time: 17:28

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	46	mg/L	SM20 4500CI-E	3/14/14	N JGM	A	
COD	150	mg/L	Hach 8000	3/18/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	3/18/14	W AWM	A	
Arsenic, Total	0.001	mg/L	SM20 3113B	3/17/14	W AWM	A	
Barium, Total	0.026	mg/L	EPA 200.7	3/18/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/18/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/18/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	3/18/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Iron, Dissolved	3.5	mg/L	EPA 200.7	3/18/14	W RGT	A	
Iron, Total	4.4	mg/L	EPA 200.7	3/18/14	W RGT	A	
Lead, Total	0.002	mg/L	SM20 3113B	3/17/14	W AWM	A	
Manganese, Dissolved	0.29	mg/L	EPA 200.7	3/18/14	W RGT	A	
Manganese, Total	0.29	mg/L	EPA 200.7	3/18/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/20/14	W CM	A	
Nickel, Total	0.007	mg/L	EPA 200.7	3/18/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	3/19/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	LFB-
Sodium, Total	25	mg/L	EPA 200.7	3/18/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	3/18/14	W AWM	A	LFB-
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	

002 Site: BRW-5S Date Sampled: 3/12/14 Time: 16:20

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	12	mg/L	SM20 4500CI-E	3/14/14	N JGM	A	
COD	99	mg/L	Hach 8000	3/18/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	3/18/14	W AWM	A	
Arsenic, Total	0.004	mg/L	SM20 3113B	3/17/14	W AWM	A	
Barium, Total	0.054	mg/L	EPA 200.7	3/18/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/18/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/18/14	W RGT	A	
Chromium, Total	0.014	mg/L	EPA 200.7	3/18/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Iron, Dissolved	15	mg/L	EPA 200.7	3/18/14	W RGT	A	
Iron, Total	23	mg/L	EPA 200.7	3/18/14	W RGT	A	
Lead, Total	0.004	mg/L	SM20 3113B	3/17/14	W AWM	A	
Manganese, Dissolved	1.1	mg/L	EPA 200.7	3/18/14	W RGT	A	
Manganese, Total	1.2	mg/L	EPA 200.7	3/18/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/20/14	W CM	A	
Nickel, Total	0.023	mg/L	EPA 200.7	3/18/14	W RGT	A	

## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

002 Site: BRW-5S Date Sampled: 3/12/14 Time: 16:20

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Selenium, Total	< 0.002	mg/L	SM20 3113B	3/19/14	W AWM	A	M-
Silver, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	LFB-
Sodium, Total	8.8	mg/L	EPA 200.7	3/18/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	3/18/14	W AWM	A	LFB-
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Zinc, Total	0.032	mg/L	EPA 200.7	3/18/14	W RGT	A	

003 Site: BRW-6S Date Sampled: 3/12/14 Time: 15:20

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	3.5	mg/L	SM20 4500Cl-E	3/14/14	N JGM	A	
COD	84	mg/L	Hach 8000	3/18/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	3/18/14	W AWM	A	
Arsenic, Total	0.007	mg/L	SM20 3113B	3/17/14	W AWM	A	
Barium, Total	0.033	mg/L	EPA 200.7	3/18/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/18/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/18/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	3/18/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Iron, Dissolved	13	mg/L	EPA 200.7	3/18/14	W RGT	A	
Iron, Total	12	mg/L	EPA 200.7	3/18/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	3/17/14	W AWM	A	
Manganese, Dissolved	0.98	mg/L	EPA 200.7	3/18/14	W RGT	A	
Manganese, Total	1.1	mg/L	EPA 200.7	3/18/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/20/14	W CM	A	
Nickel, Total	0.010	mg/L	EPA 200.7	3/18/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	3/19/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	LFB-
Sodium, Total	3.1	mg/L	EPA 200.7	3/18/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	3/18/14	W AWM	A	LFB-
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	

004 Site: BRW-7S Date Sampled: 3/12/14 Time: 14:26

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	3.0	mg/L	SM20 4500Cl-E	3/14/14	N JGM	A	
COD	88	mg/L	Hach 8000	3/18/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	3/18/14	W AWM	A	
Arsenic, Total	0.006	mg/L	SM20 3113B	3/17/14	W AWM	A	
Barium, Total	0.038	mg/L	EPA 200.7	3/18/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/18/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/18/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	3/18/14	W RGT	A	

## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

004 Site: BRW-7S Date Sampled: 3/12/14 Time: 14:26

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Iron, Dissolved	27	mg/L	EPA 200.7	3/18/14	W RGT	A	
Iron, Total	32	mg/L	EPA 200.7	3/18/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	3/17/14	W AWM	A	
Manganese, Dissolved	2.0	mg/L	EPA 200.7	3/18/14	W RGT	A	
Manganese, Total	2.0	mg/L	EPA 200.7	3/18/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/20/14	W CM	A	
Nickel, Total	0.011	mg/L	EPA 200.7	3/18/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	3/19/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	LFB-
Sodium, Total	2.2	mg/L	EPA 200.7	3/18/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	3/18/14	W AWM	A	LFB-
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	

005 Site: BRW-8S Date Sampled: 3/12/14 Time: 10:26

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	4.5	mg/L	SM20 4500Cl-E	3/14/14	N JGM	A	
COD	51	mg/L	Hach 8000	3/18/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	3/18/14	W AWM	A	
Arsenic, Total	0.005	mg/L	SM20 3113B	3/17/14	W AWM	A	
Barium, Total	0.031	mg/L	EPA 200.7	3/18/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/18/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/18/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	3/18/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Iron, Dissolved	16	mg/L	EPA 200.7	3/18/14	W RGT	A	
Iron, Total	17	mg/L	EPA 200.7	3/18/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	3/17/14	W AWM	A	
Manganese, Dissolved	2.9	mg/L	EPA 200.7	3/18/14	W RGT	A	
Manganese, Total	3.2	mg/L	EPA 200.7	3/18/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/20/14	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	3/18/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	3/19/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	LFB-
Sodium, Total	3.2	mg/L	EPA 200.7	3/18/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	3/18/14	W AWM	A	LFB-
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	

006 Site: BRW-9S Date Sampled: 3/12/14 Time: 9:40



**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

006 Site: BRW-9S Date Sampled: 3/12/14 Time: 9:40

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Chloride	5.4	mg/L	SM20 4500Cl-E	3/14/14	N JGM	A	
COD	30	mg/L	Hach 8000	3/18/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	3/18/14	W AWM	A	
Arsenic, Total	0.046	mg/L	SM20 3113B	3/17/14	W AWM	A	
Barium, Total	0.061	mg/L	EPA 200.7	3/18/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/18/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/18/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	3/18/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Iron, Dissolved	12	mg/L	EPA 200.7	3/18/14	W RGT	A	
Iron, Total	12	mg/L	EPA 200.7	3/18/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	3/17/14	W AWM	A	
Manganese, Dissolved	4.7	mg/L	EPA 200.7	3/18/14	W RGT	A	M-
Manganese, Total	4.7	mg/L	EPA 200.7	3/18/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/20/14	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	3/18/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	3/19/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	LFB-
Sodium, Total	2.5	mg/L	EPA 200.7	3/18/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	3/18/14	W AWM	A	LFB-
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/18/14	W RGT	A	

## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

### TEST METHOD: EPA 8270D

001 Site: BRW-4S					Sampled: 3/12/14 17:28					Test Date: 3/14/14	W FAA
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual		
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A			
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N			
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A			
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A			
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N			
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A			
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N			
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A			
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A			
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A			
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A			
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A			
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N			
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A			
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A			
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A			
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A			
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N			
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A			
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N			
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U			
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A			
Phenanthrene	< 1.0	ug/L	N		Anthracene	< 1.0	ug/L	A			
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A			
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A			
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A			
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A			
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A			
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A			
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A			
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A			
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A			
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A			
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A			
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A			
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N			
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A			
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A			
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A			
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U			
B/N Surr.1 Nitrobenzene-d5	54	%	N		B/N Surr.2 2-Fluorobiphenyl	61	%	N			
B/N Surr.3 Terphenyl-d14	84	%	N		Acid Surr.1 2-Fluorophenol	30	%	N			
Acid Surr.2 Phenol-d8	23	%	N		Acid Surr.3 Tribromophenol	63	%	N			
Unidentified Peaks	0		U								

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

TEST METHOD: EPA 8260C

001	Site: BRW-4S					Sampled: 3/12/14	17:28	Test Date: 3/24/14	W	MHM
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	QA-	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	QA-	Carbon disulfide	< 5.0	ug/L	A		
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	QA-	
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	U		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	< 1.0	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)	101	%	N		
Surr. 3 (4-Bromofluorobenzene)	99	%	N		Surr. 2 (Toluene d8)	98	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

TEST METHOD: EPA 8270D

002	Site: BRW-5S					Sampled: 3/12/14	16:20	Test Date: 3/14/14	W	FAA
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual	
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A		
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N		
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A		
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A		
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N		
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A		
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N		
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A		
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A		
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A		
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A		
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A		
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N		
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A		
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A		
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A		
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A		
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N		
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A		
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N		
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U		
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A		
Phenanthrene	< 1.0	ug/L	N		Anthracene	< 1.0	ug/L	A		
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A		
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A		
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A		
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A		
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A		
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A		
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A		
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A		
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A		
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A		
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A		
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A		
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N		
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A		
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A		
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A		
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U		
B/N Surr.1 Nitrobenzene-d5	63	%	N		B/N Surr.2 2-Fluorobiphenyl	66	%	N		
B/N Surr.3 Terphenyl-d14	88	%	N		Acid Surr.1 2-Fluorophenol	35	%	N		
Acid Surr.2 Phenol-d8	25	%	N		Acid Surr.3 Tribromophenol	82	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

TEST METHOD: EPA 8260C

002	Site: BRW-5S					Sampled: 3/12/14	16:20	Test Date: 3/24/14	W	MHM
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	QA-	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	QA-	Carbon disulfide	< 5.0	ug/L	A		
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	QA-	
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	U		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	< 1.0	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)	108	%	N		
Surr. 2 (Toluene d8)	100	%	N		Surr. 3 (4-Bromofluorobenzene)	96	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

TEST METHOD: EPA 8270D

003 Site: BRW-6S					Sampled: 3/12/14 15:20	Test Date: 3/14/14 W FAA			
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	N		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	54	%	N		B/N Surr.2 2-Fluorobiphenyl	58	%	N	
B/N Surr.3 Terphenyl-d14	73	%	N		Acid Surr.1 2-Fluorophenol	37	%	N	
Acid Surr.2 Phenol-d8	28	%	N		Acid Surr.3 Tribromophenol	56	%	N	
Unidentified Peaks	0		U						

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

TEST METHOD: EPA 8260C

003	Site: BRW-6S					Sampled: 3/12/14	15:20	Test Date: 3/24/14	W	MHM
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	QA-	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	QA-	Carbon disulfide	< 5.0	ug/L	A		
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	QA-	
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	< 1.0	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	U		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	< 1.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N		
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A		
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A		
trans-1,3-Dichloropropene	< 1.0	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	< 1.0	ug/L	A		
1,2-Dibromoethane	< 2.0	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	< 1.0	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. 3 (4-Bromofluorobenzene)	95	%	N		Surr. 2 (Toluene d8)	95	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

TEST METHOD: EPA 8270D

004 Site: BRW-7S					Sampled: 3/12/14 14:26	Test Date: 3/14/14		W	FAA
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	N		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	61	%	N		B/N Surr.2 2-Fluorobiphenyl	65	%	N	
B/N Surr.3 Terphenyl-d14	82	%	N		Acid Surr.1 2-Fluorophenol	36	%	N	
Acid Surr.2 Phenol-d8	26	%	N		Acid Surr.3 Tribromophenol	73	%	N	
Unidentified Peaks	0		U						



**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

TEST METHOD: EPA 8260C

004	Site: BRW-7S					Sampled: 3/12/14	14:26	Test Date: 3/25/14	W	MHM
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	QA-	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	U		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	< 1.0	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)	108	%	N		
Surr. 2 (Toluene d8)	103	%	N		Surr. 3 (4-Bromofluorobenzene)	93	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

TEST METHOD: EPA 8270D

005 Site: BRW-8S					Sampled: 3/12/14	10:26	Test Date: 3/14/14	W	FAA
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	N		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	61	%	N		B/N Surr.2 2-Fluorobiphenyl	66	%	N	
B/N Surr.3 Terphenyl-d14	85	%	N		Acid Surr.1 2-Fluorophenol	32	%	N	
Acid Surr.2 Phenol-d8	25	%	N		Acid Surr.3 Tribromophenol	75	%	N	
Unidentified Peaks	0		U						

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

TEST METHOD: EPA 8260C

005	Site: BRW-8S					Sampled: 3/12/14	10:26	Test Date: 3/25/14	W	MHM
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	QA-	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	U		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	< 1.0	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)	108	%	N		
Surr. 2 (Toluene d8)	102	%	N		Surr. 3 (4-Bromofluorobenzene)	91	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

TEST METHOD: EPA 8270D

006	Site: BRW-9S			Sampled: 3/12/14	9:40	Test Date: 3/14/14	W	FAA	
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	N		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	66	%	N		B/N Surr.2 2-Fluorobiphenyl	70	%	N	
B/N Surr.3 Terphenyl-d14	90	%	N		Acid Surr.1 2-Fluorophenol	36	%	N	
Acid Surr.2 Phenol-d8	26	%	N		Acid Surr.3 Tribromophenol	80	%	N	
Unidentified Peaks	0		U						

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 3/27/2014

WORK ORDER: 1403-04477  
 DATE RECEIVED: 03/13/2014

TEST METHOD: EPA 8260C

006	Site: BRW-9S					Sampled: 3/12/14	9:40	Test Date: 3/25/14	W	MHM
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	QA-	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	U		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	< 1.0	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)	107	%	N		
Surr. 3 (4-Bromofluorobenzene)	93	%	N		Surr. 2 (Toluene d8)	103	%	N		
Unidentified Peaks	0		U							



## Laboratory Report

WaiteHeindel Environmental	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406-4709	
Atten: Craig Heindel	

PROJECT: NEWSVT BRW Wetland Wells

WORK ORDER: **1403-05246**

DATE RECEIVED: March 26, 2014

DATE REPORTED: April 08, 2014

SAMPLER: Wendy/Chris

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

[www.endynelabs.com](http://www.endynelabs.com)



160 James Brown Dr., Williston, VT 05495  
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03755  
Ph 603-678-4891 Fax 603-678-4893



## Laboratory Report

CLIENT: WaiteHeindel Environmental  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/8/2014

WORK ORDER: 1403-05246  
 DATE RECEIVED: 03/26/2014

001 Site: BRW-4S Date Sampled: 3/25/14 Time: 17:50

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	38	mg/L	SM20 4500CI-E	3/28/14	N JGM	A	
COD	80	mg/L	Hach 8000	3/31/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	4/1/14	W AWM	A	
Arsenic, Total	< 0.001	mg/L	SM20 3113B	3/28/14	W AWM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/28/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/28/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	3/28/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Iron, Dissolved	3.5	mg/L	EPA 200.7	3/28/14	W RGT	A	
Iron, Total	3.8	mg/L	EPA 200.7	3/28/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	3/28/14	W AWM	A	
Manganese, Dissolved	0.27	mg/L	EPA 200.7	3/28/14	W RGT	A	
Manganese, Total	0.27	mg/L	EPA 200.7	3/28/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/31/14	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	3/28/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	4/1/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Sodium, Total	25	mg/L	EPA 200.7	3/28/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	4/1/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	

002 Site: BRW-5S Date Sampled: 3/25/14 Time: 17:03

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	9.3	mg/L	SM20 4500CI-E	3/28/14	N JGM	A	
COD	49	mg/L	Hach 8000	3/31/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	4/1/14	W AWM	A	
Arsenic, Total	0.002	mg/L	SM20 3113B	3/28/14	W AWM	A	
Barium, Total	0.027	mg/L	EPA 200.7	3/28/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/28/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/28/14	W RGT	A	
Chromium, Total	0.007	mg/L	EPA 200.7	3/28/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Iron, Dissolved	12	mg/L	EPA 200.7	3/28/14	W RGT	A	
Iron, Total	14	mg/L	EPA 200.7	3/28/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	3/28/14	W AWM	A	
Manganese, Dissolved	1.2	mg/L	EPA 200.7	3/28/14	W RGT	A	
Manganese, Total	1.2	mg/L	EPA 200.7	3/28/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/31/14	W CM	A	
Nickel, Total	0.010	mg/L	EPA 200.7	3/28/14	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/8/2014

WORK ORDER: 1403-05246  
 DATE RECEIVED: 03/26/2014

002 Site: BRW-5S Date Sampled: 3/25/14 Time: 17:03

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Selenium, Total	< 0.002	mg/L	SM20 3113B	4/1/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Sodium, Total	7.2	mg/L	EPA 200.7	3/28/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	4/1/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	

003 Site: BRW-6S Date Sampled: 3/25/14 Time: 16:19

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	3.1	mg/L	SM20 4500Cl-E	3/28/14	N JGM	A	
COD	83	mg/L	Hach 8000	3/31/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	4/1/14	W AWM	A	
Arsenic, Total	0.005	mg/L	SM20 3113B	3/28/14	W AWM	A	
Barium, Total	0.029	mg/L	EPA 200.7	3/28/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/28/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/28/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	3/28/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Iron, Dissolved	18	mg/L	EPA 200.7	3/28/14	W RGT	A	
Iron, Total	18	mg/L	EPA 200.7	3/28/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	3/28/14	W AWM	A	
Manganese, Dissolved	0.99	mg/L	EPA 200.7	3/28/14	W RGT	A	
Manganese, Total	0.99	mg/L	EPA 200.7	3/28/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/31/14	W CM	A	
Nickel, Total	0.009	mg/L	EPA 200.7	3/28/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	4/1/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Sodium, Total	2.6	mg/L	EPA 200.7	3/28/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	4/1/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	

004 Site: BRW-7S Date Sampled: 3/25/14 Time: 15:26

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	4.5	mg/L	SM20 4500Cl-E	3/28/14	N JGM	A	
COD	76	mg/L	Hach 8000	3/31/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	4/1/14	W AWM	A	
Arsenic, Total	0.005	mg/L	SM20 3113B	3/28/14	W AWM	A	
Barium, Total	0.032	mg/L	EPA 200.7	3/28/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/28/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/28/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	3/28/14	W RGT	A	



## Laboratory Report

CLIENT: WaiteHeindel Environmental  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/8/2014

WORK ORDER: 1403-05246  
 DATE RECEIVED: 03/26/2014

004 Site: BRW-7S Date Sampled: 3/25/14 Time: 15:26

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Iron, Dissolved	30	mg/L	EPA 200.7	3/28/14	W RGT	A	
Iron, Total	32	mg/L	EPA 200.7	3/28/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	3/28/14	W AWM	A	
Manganese, Dissolved	2.2	mg/L	EPA 200.7	3/28/14	W RGT	A	
Manganese, Total	2.3	mg/L	EPA 200.7	3/28/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/31/14	W CM	A	
Nickel, Total	0.007	mg/L	EPA 200.7	3/28/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	4/1/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Sodium, Total	2.0	mg/L	EPA 200.7	3/28/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	4/1/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	

005 Site: BRW-8S Date Sampled: 3/25/14 Time: 11:56

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	5.0	mg/L	SM20 4500Cl-E	3/28/14	N JGM	A	
COD	54	mg/L	Hach 8000	3/31/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	4/1/14	W AWM	A	
Arsenic, Total	0.004	mg/L	SM20 3113B	3/28/14	W AWM	A	
Barium, Total	0.028	mg/L	EPA 200.7	3/28/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/28/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/28/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	3/28/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Iron, Dissolved	19	mg/L	EPA 200.7	3/28/14	W RGT	A	
Iron, Total	21	mg/L	EPA 200.7	3/28/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	3/28/14	W AWM	A	
Manganese, Dissolved	2.6	mg/L	EPA 200.7	3/28/14	W RGT	A	
Manganese, Total	2.6	mg/L	EPA 200.7	3/28/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/31/14	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	3/28/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	4/1/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Sodium, Total	3.3	mg/L	EPA 200.7	3/28/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	4/1/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	

006 Site: BRW-9S Date Sampled: 3/25/14 Time: 11:13

## Laboratory Report

CLIENT: WaiteHeindel Environmental  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/8/2014

WORK ORDER: 1403-05246  
 DATE RECEIVED: 03/26/2014

006 Site: BRW-9S Date Sampled: 3/25/14 Time: 11:13

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	5.3	mg/L	SM20 4500Cl-E	3/28/14	N JGM	A	
COD	31	mg/L	Hach 8000	3/31/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	4/1/14	W AWM	A	
Arsenic, Total	0.038	mg/L	SM20 3113B	3/28/14	W AWM	A	
Barium, Total	0.056	mg/L	EPA 200.7	3/28/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	3/28/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	3/28/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	3/28/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Iron, Dissolved	13	mg/L	EPA 200.7	3/31/14	W RGT	A	
Iron, Total	13	mg/L	EPA 200.7	3/28/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	3/28/14	W AWM	A	
Manganese, Dissolved	4.7	mg/L	EPA 200.7	3/31/14	W RGT	A	
Manganese, Total	4.7	mg/L	EPA 200.7	3/31/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	3/31/14	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	3/28/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	4/1/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Sodium, Total	2.4	mg/L	EPA 200.7	3/28/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	4/1/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	3/28/14	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/8/2014

WORK ORDER: 1403-05246  
 DATE RECEIVED: 03/26/2014

TEST METHOD: EPA 8260C

001	Site: BRW-4S					Sampled: 3/25/14	17:50	Test Date: 4/7/14	W	MHM
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	U		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	< 1.0	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. 3 (4-Bromofluorobenzene)	95	%	N		Surr. 2 (Toluene d8)	99	%	N		
Unidentified Peaks	0		U							

## Laboratory Report

CLIENT: WaiteHeindel Environmental  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/8/2014

WORK ORDER: 1403-05246  
 DATE RECEIVED: 03/26/2014

TEST METHOD: EPA 8260C

002 Site: BRW-5S					Sampled: 3/25/14 17:03					Test Date: 4/7/14	W MHM
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	U		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-Amyl methyl 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	< 1.0	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)	105	%	N			
Surr. 2 (Toluene d8)	98	%	N		Surr. 3 (4-Bromofluorobenzene)	97	%	N			
Unidentified Peaks	0		U								

**Laboratory Report**

CLIENT: WaiteHeindel Environmental  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/8/2014

WORK ORDER: 1403-05246  
 DATE RECEIVED: 03/26/2014

TEST METHOD: EPA 8260C

003	Site: BRW-6S					Sampled: 3/25/14	16:19	Test Date: 4/4/14	W	MHM
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	QA-	
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	U		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	< 1.0	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	QA-	
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)	105	%	N		
Surr. 2 (Toluene d8)	98	%	N		Surr. 3 (4-Bromofluorobenzene)	97	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/8/2014

WORK ORDER: 1403-05246  
 DATE RECEIVED: 03/26/2014

TEST METHOD: EPA 8260C

004	Site: BRW-7S					Sampled: 3/25/14	15:26	Test Date: 4/4/14	W	MHM
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	QA-	
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	U		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	< 1.0	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	QA-	
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)	98	%	N		Surr. 3 (4-Bromofluorobenzene)	97	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/8/2014

WORK ORDER: 1403-05246  
 DATE RECEIVED: 03/26/2014

TEST METHOD: EPA 8260C

005	Site: BRW-8S			Sampled: 3/25/14	11:56	Test Date: 4/4/14	W	MHM	
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	QA-
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	U		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-Amyl methyl 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	< 1.0	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	QA-
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)	116	%	N	
Surr. 3 (4-Bromofluorobenzene)	98	%	N		Surr. 2 (Toluene d8)	100	%	N	
Unidentified Peaks	0		U						

**Laboratory Report**

CLIENT: WaiteHeindel Environmental  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/8/2014

WORK ORDER: 1403-05246  
 DATE RECEIVED: 03/26/2014

TEST METHOD: EPA 8260C

006	Site: BRW-9S					Sampled: 3/25/14	11:13	Test Date: 4/4/14	W	MHM
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	QA-	
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	U		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-Amyl methyl 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	< 1.0	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	QA-	
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)	105	%	N		
Surr. 3 (4-Bromofluorobenzene)	96	%	N		Surr. 2 (Toluene d8)	99	%	N		
Unidentified Peaks	0		U							





## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT BRW Wetland Wells

WORK ORDER: **1404-06623**

DATE RECEIVED: April 15, 2014

DATE REPORTED: April 22, 2014

SAMPLER: Wendy/Chris

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

[www.endynelabs.com](http://www.endynelabs.com)



160 James Brown Dr., Williston, VT 05495  
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03755  
Ph 603-678-4891 Fax 603-678-4893



## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/22/2014

WORK ORDER: 1404-06623  
 DATE RECEIVED: 04/15/2014

001 Site: BRW-4S NO SAMPLE Date Sampled: 4/14/14 Time:

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
No analysis							

002 Site: BRW-5S Date Sampled: 4/14/14 Time: 11:03

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	11	mg/L	SM20 4500Cl-E	4/21/14	N JGM	A	
COD	96	mg/L	Hach 8000	4/18/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	4/21/14	W AWM	A	
Arsenic, Total	0.003	mg/L	SM20 3113B	4/17/14	W AWM	A	
Barium, Total	0.026	mg/L	EPA 200.7	4/18/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	4/18/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	4/18/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	4/18/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Iron, Dissolved	17	mg/L	EPA 200.7	4/16/14	W RGT	A	
Iron, Total	19	mg/L	EPA 200.7	4/18/14	W RGT	A	
Lead, Total	0.001	mg/L	SM20 3113B	4/17/14	W AWM	A	
Manganese, Dissolved	1.2	mg/L	EPA 200.7	4/16/14	W RGT	A	
Manganese, Total	1.1	mg/L	EPA 200.7	4/18/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	4/22/14	W CM	A	
Nickel, Total	0.008	mg/L	EPA 200.7	4/18/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	4/21/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	M-
Sodium, Total	6.4	mg/L	EPA 200.7	4/18/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	4/21/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	

003 Site: BRW-6S Date Sampled: 4/14/14 Time: 16:38

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	3.0	mg/L	SM20 4500Cl-E	4/21/14	N JGM	A	
COD	79	mg/L	Hach 8000	4/18/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	4/21/14	W AWM	A	
Arsenic, Total	0.005	mg/L	SM20 3113B	4/17/14	W AWM	A	
Barium, Total	0.026	mg/L	EPA 200.7	4/18/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	4/18/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	4/18/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	4/18/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Iron, Dissolved	18	mg/L	EPA 200.7	4/16/14	W RGT	A	
Iron, Total	19	mg/L	EPA 200.7	4/18/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	4/17/14	W AWM	A	

## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/22/2014

WORK ORDER: 1404-06623  
 DATE RECEIVED: 04/15/2014

003 Site: BRW-6S Date Sampled: 4/14/14 Time: 16:38

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Manganese, Dissolved	0.89	mg/L	EPA 200.7	4/16/14	W RGT	A	
Manganese, Total	0.85	mg/L	EPA 200.7	4/18/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	4/22/14	W CM	A	
Nickel, Total	0.008	mg/L	EPA 200.7	4/18/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	4/21/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Sodium, Total	2.3	mg/L	EPA 200.7	4/18/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	4/21/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	

004 Site: BRW-7S Date Sampled: 4/14/14 Time: 15:52

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	3.6	mg/L	SM20 4500Cl-E	4/21/14	N JGM	A	
COD	83	mg/L	Hach 8000	4/18/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	4/21/14	W AWM	A	
Arsenic, Total	0.004	mg/L	SM20 3113B	4/17/14	W AWM	A	M1+
Barium, Total	0.022	mg/L	EPA 200.7	4/18/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	4/18/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	4/18/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	4/18/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Iron, Dissolved	16	mg/L	EPA 200.7	4/16/14	W RGT	A	
Iron, Total	19	mg/L	EPA 200.7	4/18/14	W RGT	A	
Lead, Total	0.003	mg/L	SM20 3113B	4/17/14	W AWM	A	
Manganese, Dissolved	1.0	mg/L	EPA 200.7	4/16/14	W RGT	A	
Manganese, Total	1.1	mg/L	EPA 200.7	4/18/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	4/22/14	W CM	A	
Nickel, Total	0.007	mg/L	EPA 200.7	4/18/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	4/21/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Sodium, Total	2.0	mg/L	EPA 200.7	4/18/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	4/21/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	

005 Site: BRW-8S Date Sampled: 4/14/14 Time: 14:54

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	3.3	mg/L	SM20 4500Cl-E	4/21/14	N JGM	A	
COD	68	mg/L	Hach 8000	4/18/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	4/21/14	W AWM	A	
Arsenic, Total	0.002	mg/L	SM20 3113B	4/17/14	W AWM	A	

## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/22/2014

WORK ORDER: 1404-06623  
 DATE RECEIVED: 04/15/2014

005 Site: BRW-8S Date Sampled: 4/14/14 Time: 14:54

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Barium, Total	0.023	mg/L	EPA 200.7	4/18/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	4/18/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	4/18/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	4/18/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Iron, Dissolved	22	mg/L	EPA 200.7	4/16/14	W RGT	A	
Iron, Total	20	mg/L	EPA 200.7	4/18/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	4/17/14	W AWM	A	
Manganese, Dissolved	3.0	mg/L	EPA 200.7	4/16/14	W RGT	A	
Manganese, Total	2.7	mg/L	EPA 200.7	4/18/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	4/22/14	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	4/18/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	4/21/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Sodium, Total	2.6	mg/L	EPA 200.7	4/18/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	4/21/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	

006 Site: BRW-9S Date Sampled: 4/14/14 Time: 14:06

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	3.3	mg/L	SM20 4500Cl-E	4/21/14	N JGM	A	
COD	120	mg/L	Hach 8000	4/18/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	4/21/14	W AWM	A	
Arsenic, Total	0.038	mg/L	SM20 3113B	4/17/14	W AWM	A	
Barium, Total	0.045	mg/L	EPA 200.7	4/18/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	4/18/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	4/18/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	4/18/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Iron, Dissolved	6.0	mg/L	EPA 200.7	4/16/14	W RGT	A	
Iron, Total	7.1	mg/L	EPA 200.7	4/18/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	4/17/14	W AWM	A	
Manganese, Dissolved	3.0	mg/L	EPA 200.7	4/16/14	W RGT	A	
Manganese, Total	3.0	mg/L	EPA 200.7	4/18/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	4/22/14	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	4/18/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	4/21/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Sodium, Total	2.0	mg/L	EPA 200.7	4/18/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	4/21/14	W AWM	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
PROJECT: NEWSVT BRW Wetland Wells  
REPORT DATE: 4/22/2014

WORK ORDER: 1404-06623  
DATE RECEIVED: 04/15/2014

006 Site: BRW-9S Date Sampled: 4/14/14 Time: 14:06

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Vanadium, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	4/18/14	W RGT	A	

007 Site: BRW-10S NO SAMPLE Date Sampled: 4/14/14 Time:

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
No analysis							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/22/2014

WORK ORDER: 1404-06623  
 DATE RECEIVED: 04/15/2014

TEST METHOD: EPA 8260C

002	Site: BRW-5S					Sampled: 4/14/14	11:03	Test Date: 4/18/14	W	MHM
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	QA-	
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	U		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	< 1.0	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)	99	%	N		
Surr. 3 (4-Bromofluorobenzene)	98	%	N		Surr. 2 (Toluene d8)	100	%	N		
Unidentified Peaks	0		U							

## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/22/2014

WORK ORDER: 1404-06623  
 DATE RECEIVED: 04/15/2014

TEST METHOD: EPA 8260C

003 Site: BRW-6S					Sampled: 4/14/14 16:38					Test Date: 4/17/14	W MHM
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	U		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	< 1.0	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)	100	%	N			
Surr. 3 (4-Bromofluorobenzene)	100	%	N		Surr. 2 (Toluene d8)	98	%	N			
Unidentified Peaks	0		U								

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/22/2014

WORK ORDER: 1404-06623  
 DATE RECEIVED: 04/15/2014

TEST METHOD: EPA 8260C

004	Site: BRW-7S					Sampled: 4/14/14	15:52	Test Date: 4/17/14	W	MHM
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	U		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	< 1.0	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)	101	%	N		
Surr. 3 (4-Bromofluorobenzene)	101	%	N		Surr. 2 (Toluene d8)	98	%	N		
Unidentified Peaks	0		U							



**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 4/22/2014

WORK ORDER: 1404-06623  
 DATE RECEIVED: 04/15/2014

TEST METHOD: EPA 8260C

005	Site: BRW-8S					Sampled: 4/14/14	14:54	Test Date: 4/18/14	W	MHM
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	QA-	
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	U		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	< 1.0	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)	100	%	N		
Surr. 3 (4-Bromofluorobenzene)	102	%	N		Surr. 2 (Toluene d8)	101	%	N		
Unidentified Peaks	0		U							



## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT BRW Wetland Wells

WORK ORDER: **1405-08369**

DATE RECEIVED: May 08, 2014

DATE REPORTED: May 21, 2014

SAMPLER: WL/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

[www.endynelabs.com](http://www.endynelabs.com)



160 James Brown Dr., Williston, VT 05495  
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03755  
Ph 603-678-4891 Fax 603-678-4893



## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: 1405-08369  
 DATE RECEIVED: 05/08/2014

001 Site: BRW-4S Date Sampled: 5/8/14 Time: 15:00

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	36	mg/L	SM20 4500CI-E	5/17/14	N CAL	A	
COD	37	mg/L	Hach 8000	5/13/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	5/14/14	W AWM	A	
Arsenic, Total	< 0.001	mg/L	SM20 3113B	5/19/14	W AWM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	5/12/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Iron, Dissolved	3.8	mg/L	EPA 200.7	5/9/14	W RGT	A	
Iron, Total	3.6	mg/L	EPA 200.7	5/12/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	5/20/14	W AWM	A	
Manganese, Dissolved	0.28	mg/L	EPA 200.7	5/9/14	W RGT	A	
Manganese, Total	0.26	mg/L	EPA 200.7	5/12/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	5/19/14	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	5/12/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	5/13/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Sodium, Total	23	mg/L	EPA 200.7	5/12/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	5/15/14	W AWM	A	M-
Vanadium, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	

002 Site: BRW-5S Date Sampled: 5/5/14 Time: 15:11

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	10	mg/L	SM20 4500CI-E	5/17/14	N CAL	A	
COD	60	mg/L	Hach 8000	5/13/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	5/14/14	W AWM	A	
Arsenic, Total	0.001	mg/L	SM20 3113B	5/20/14	W AWM	A	
Barium, Total	0.067	mg/L	EPA 200.7	5/12/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	5/12/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Iron, Dissolved	13	mg/L	EPA 200.7	5/9/14	W RGT	A	
Iron, Total	12	mg/L	EPA 200.7	5/12/14	W RGT	A	
Lead, Total	0.003	mg/L	SM20 3113B	5/20/14	W AWM	A	
Manganese, Dissolved	1.0	mg/L	EPA 200.7	5/9/14	W RGT	A	
Manganese, Total	0.89	mg/L	EPA 200.7	5/12/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	5/19/14	W CM	A	
Nickel, Total	0.006	mg/L	EPA 200.7	5/12/14	W RGT	A	

## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: 1405-08369  
 DATE RECEIVED: 05/08/2014

002 Site: BRW-5S Date Sampled: 5/5/14 Time: 15:11

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Selenium, Total	< 0.002	mg/L	SM20 3113B	5/13/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Sodium, Total	12	mg/L	EPA 200.7	5/12/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	5/15/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	

003 Site: BRW-6S Date Sampled: 5/5/14 Time: 14:24

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	2.9	mg/L	SM20 4500Cl-E	5/17/14	N CAL	A	
COD	120	mg/L	Hach 8000	5/13/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	5/14/14	W AWM	A	
Arsenic, Total	0.002	mg/L	SM20 3113B	5/20/14	W AWM	A	
Barium, Total	0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	5/12/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Iron, Dissolved	11	mg/L	EPA 200.7	5/9/14	W RGT	A	
Iron, Total	12	mg/L	EPA 200.7	5/12/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	5/20/14	W AWM	A	
Manganese, Dissolved	0.83	mg/L	EPA 200.7	5/9/14	W RGT	A	
Manganese, Total	0.61	mg/L	EPA 200.7	5/12/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	5/19/14	W CM	A	
Nickel, Total	0.005	mg/L	EPA 200.7	5/12/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	5/13/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Sodium, Total	1.9	mg/L	EPA 200.7	5/12/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	5/15/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	

004 Site: BRW-7S Date Sampled: 5/5/14 Time: 13:32

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	3.9	mg/L	SM20 4500Cl-E	5/17/14	N CAL	A	
COD	93	mg/L	Hach 8000	5/13/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	5/14/14	W AWM	A	
Arsenic, Total	0.003	mg/L	SM20 3113B	5/20/14	W AWM	A	
Barium, Total	0.026	mg/L	EPA 200.7	5/12/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	5/12/14	W RGT	A	
Chromium, Total	0.005	mg/L	EPA 200.7	5/12/14	W RGT	A	

## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: 1405-08369  
 DATE RECEIVED: 05/08/2014

004 Site: BRW-7S Date Sampled: 5/5/14 Time: 13:32

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Cobalt, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Iron, Dissolved	20	mg/L	EPA 200.7	5/9/14	W RGT	A	
Iron, Total	19	mg/L	EPA 200.7	5/12/14	W RGT	A	
Lead, Total	0.002	mg/L	SM20 3113B	5/20/14	W AWM	A	
Manganese, Dissolved	1.3	mg/L	EPA 200.7	5/9/14	W RGT	A	
Manganese, Total	0.99	mg/L	EPA 200.7	5/12/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	5/19/14	W CM	A	
Nickel, Total	0.009	mg/L	EPA 200.7	5/12/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	5/13/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Sodium, Total	2.2	mg/L	EPA 200.7	5/12/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	5/15/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	

005 Site: BRW-8S Date Sampled: 5/5/14 Time: 11:59

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	4.7	mg/L	SM20 4500Cl-E	5/17/14	N CAL	A	
COD	71	mg/L	Hach 8000	5/13/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	5/14/14	W AWM	A	
Arsenic, Total	0.002	mg/L	SM20 3113B	5/20/14	W AWM	A	
Barium, Total	0.026	mg/L	EPA 200.7	5/12/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	5/12/14	W RGT	A	
Chromium, Total	0.006	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Iron, Dissolved	16	mg/L	EPA 200.7	5/10/14	W RGT	A	
Iron, Total	22	mg/L	EPA 200.7	5/12/14	W RGT	A	
Lead, Total	0.001	mg/L	SM20 3113B	5/20/14	W AWM	A	
Manganese, Dissolved	3.2	mg/L	EPA 200.7	5/10/14	W RGT	A	
Manganese, Total	2.6	mg/L	EPA 200.7	5/12/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	5/19/14	W CM	A	
Nickel, Total	0.007	mg/L	EPA 200.7	5/12/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	5/13/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Sodium, Total	3.1	mg/L	EPA 200.7	5/12/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	5/15/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	

006 Site: BRW-9S Date Sampled: 5/5/14 Time: 11:13

## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: 1405-08369  
 DATE RECEIVED: 05/08/2014

006 Site: BRW-9S Date Sampled: 5/5/14 Time: 11:13

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	3.9	mg/L	SM20 4500CI-E	5/17/14	N CAL	A	
COD	78	mg/L	Hach 8000	5/13/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	5/14/14	W AWM	A	
Arsenic, Total	0.061	mg/L	SM20 3113B	5/20/14	W AWM	A	
Barium, Total	0.058	mg/L	EPA 200.7	5/12/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	5/12/14	W RGT	A	
Chromium, Total	0.005	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Iron, Dissolved	6.0	mg/L	EPA 200.7	5/10/14	W RGT	A	
Iron, Total	11	mg/L	EPA 200.7	5/12/14	W RGT	A	
Lead, Total	0.002	mg/L	SM20 3113B	5/20/14	W AWM	A	
Manganese, Dissolved	3.4	mg/L	EPA 200.7	5/10/14	W RGT	A	
Manganese, Total	3.3	mg/L	EPA 200.7	5/12/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	5/19/14	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	5/12/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	5/13/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Sodium, Total	3.0	mg/L	EPA 200.7	5/12/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	5/15/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	

007 Site: BRW-10S Date Sampled: 5/6/14 Time: 15:33

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	< 2.5	mg/L	SM20 4500CI-E	5/17/14	N CAL	A	
COD	38	mg/L	Hach 8000	5/13/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	5/14/14	W AWM	A	
Arsenic, Total	0.002	mg/L	SM20 3113B	5/20/14	W AWM	A	
Barium, Total	0.024	mg/L	EPA 200.7	5/12/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	5/12/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	5/12/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Iron, Dissolved	3.9	mg/L	EPA 200.7	5/14/14	W RGT	A	
Iron, Total	3.0	mg/L	EPA 200.7	5/12/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	5/20/14	W AWM	A	
Manganese, Dissolved	0.50	mg/L	EPA 200.7	5/14/14	W RGT	A	
Manganese, Total	0.45	mg/L	EPA 200.7	5/12/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	5/19/14	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	5/12/14	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: **1405-08369**  
 DATE RECEIVED: 05/08/2014

007	Site: BRW-10S	Date Sampled: 5/6/14	Time: 15:33
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<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Selenium, Total	< 0.002	mg/L	SM20 3113B	5/13/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Sodium, Total	1.5	mg/L	EPA 200.7	5/12/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	5/15/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	5/12/14	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: 1405-08369  
 DATE RECEIVED: 05/08/2014

TEST METHOD: EPA 8260C

001	Site: BRW-4S					Sampled: 5/8/14	15:00	Test Date: 5/14/14	W	MHM
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	QA-	
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	U		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	< 1.0	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)	103	%	N		
Surr. 3 (4-Bromofluorobenzene)	99	%	N		Surr. 2 (Toluene d8)	105	%	N		
Unidentified Peaks	0		U							



**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: 1405-08369  
 DATE RECEIVED: 05/08/2014

TEST METHOD: EPA 8260C

002	Site: BRW-5S					Sampled: 5/5/14	15:11	Test Date: 5/14/14	W	MHM
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	QA-	
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	U		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	< 1.0	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. 3 (4-Bromofluorobenzene)	99	%	N		Surr. 2 (Toluene d8)	106	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: 1405-08369  
 DATE RECEIVED: 05/08/2014

TEST METHOD: EPA 8260C

003	Site: BRW-6S					Sampled: 5/5/14	14:24	Test Date: 5/15/14	W	MHM
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	U		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	< 1.0	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. 3 (4-Bromofluorobenzene)	100	%	N		Surr. 2 (Toluene d8)	107	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: 1405-08369  
 DATE RECEIVED: 05/08/2014

TEST METHOD: EPA 8260C

004	Site: BRW-7S					Sampled: 5/5/14	13:32	Test Date: 5/15/14	W	MHM
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	U		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	< 1.0	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)	107	%	N		
Surr. 3 (4-Bromofluorobenzene)	101	%	N		Surr. 2 (Toluene d8)	111	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: 1405-08369  
 DATE RECEIVED: 05/08/2014

TEST METHOD: EPA 8260C

005	Site: BRW-8S					Sampled: 5/5/14	11:59	Test Date: 5/16/14	W	MHM
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	U		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	< 1.0	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. 3 (4-Bromofluorobenzene)	99	%	N		Surr. 2 (Toluene d8)	107	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: 1405-08369  
 DATE RECEIVED: 05/08/2014

TEST METHOD: EPA 8260C

006	Site: BRW-9S					Sampled: 5/5/14	11:13	Test Date: 5/16/14	W	MHM
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	U		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	< 1.0	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)	106	%	N		Surr. 3 (4-Bromofluorobenzene)	98	%	N		
Unidentified Peaks	0		U							

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: 1405-08369  
 DATE RECEIVED: 05/08/2014

TEST METHOD: EPA 8270D

007 Site: BRW-10S					Sampled: 5/6/14 15:33	Test Date: 5/12/14 W FAA			
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	N		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	54	%	N		B/N Surr.2 2-Fluorobiphenyl	54	%	N	
B/N Surr.3 Terphenyl-d14	92	%	N		Acid Surr.1 2-Fluorophenol	27	%	N	
Acid Surr.2 Phenol-d8	20	%	N		Acid Surr.3 Tribromophenol	86	%	N	
Unidentified Peaks	0		U						

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 5/21/2014

WORK ORDER: 1405-08369  
 DATE RECEIVED: 05/08/2014

TEST METHOD: EPA 8260C

007	Site: BRW-10S					Sampled: 5/6/14	15:33	Test Date: 5/16/14	W	MHM
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	U		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	< 1.0	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)	107	%	N		
Surr. 2 (Toluene d8)	107	%	N		Surr. 3 (4-Bromofluorobenzene)	98	%	N		
Unidentified Peaks	0		U							



## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT BRW Wetland Wells

WORK ORDER: **1406-11476**

DATE RECEIVED: June 17, 2014

DATE REPORTED: July 01, 2014

SAMPLER: Wendy

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

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56 Etna Road, Lebanon, NH 03755  
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## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
PROJECT: NEWSVT BRW Wetland Wells  
REPORT DATE: 7/1/2014

WORK ORDER: 1406-11476  
DATE RECEIVED: 06/17/2014

007 Site: BRW-10S Date Sampled: 6/17/14 Time: 10:55

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Chloride	< 2.5	mg/L	SM 4500-Cl-E	6/20/14	N JGM	A	
COD	97	mg/L	Hach8000/EPA410.4	6/24/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	7/1/14	W AWM	A	
Arsenic, Total	0.001	mg/L	SM20 3113B	6/23/14	W AWM	A	
Barium, Total	0.034	mg/L	EPA 200.7	6/19/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	6/19/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	6/19/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	6/19/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	6/19/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	6/19/14	W RGT	A	
Iron, Dissolved	5.1	mg/L	EPA 200.7	6/27/14	W RGT	A	
Iron, Total	6.3	mg/L	EPA 200.7	6/19/14	W RGT	A	
Lead, Total	0.001	mg/L	SM20 3113B	6/23/14	W AWM	A	
Manganese, Dissolved	0.34	mg/L	EPA 200.7	6/27/14	W RGT	A	
Manganese, Total	0.34	mg/L	EPA 200.7	6/19/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	6/19/14	W CM	A	
Nickel, Total	0.005	mg/L	EPA 200.7	6/19/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	6/24/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	6/19/14	W RGT	A	
Sodium, Total	1.8	mg/L	EPA 200.7	6/19/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	6/24/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	6/19/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	6/19/14	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 7/1/2014

WORK ORDER: 1406-11476  
 DATE RECEIVED: 06/17/2014

TEST METHOD: EPA 8260C

007	Site: BRW-10S					Sampled: 6/17/14	10:55	Test Date: 6/25/14	W	MHM
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	U		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	< 5.0	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)	87	%	N		
Surr. 3 (4-Bromofluorobenzene)	90	%	N		Surr. 2 (Toluene d8)	93	%	N		
Unidentified Peaks	0		U							



## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT BRW Wetland Wells

WORK ORDER: **1407-13013**

DATE RECEIVED: July 07, 2014

DATE REPORTED: July 21, 2014

SAMPLER: S. Chote

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

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## Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt  
PROJECT: NEWSVT BRW Wetland Wells  
REPORT DATE: 7/21/2014

WORK ORDER: 1407-13013  
DATE RECEIVED: 07/07/2014

007 Site: BRW-10S Date Sampled: 7/7/14 Time: 13:08

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Chloride	< 2.5	mg/L	SM 4500-Cl-E	7/16/14	N JGM	A	
COD	150	mg/L	Hach8000/EPA410.4	7/15/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM20 3113B	7/18/14	W AWM	A	
Arsenic, Total	< 0.001	mg/L	SM20 3113B	7/18/14	W AWM	A	
Barium, Total	0.045	mg/L	EPA 200.7	7/18/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	7/18/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	7/18/14	W RGT	A	
Chromium, Total	0.007	mg/L	EPA 200.7	7/18/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	7/18/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	7/18/14	W RGT	A	
Iron, Dissolved	4.8	mg/L	EPA 200.7	7/10/14	W RGT	A	
Iron, Total	14	mg/L	EPA 200.7	7/18/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM20 3113B	7/18/14	W AWM	A	
Manganese, Dissolved	0.25	mg/L	EPA 200.7	7/10/14	W RGT	A	
Manganese, Total	0.38	mg/L	EPA 200.7	7/18/14	W RGT	A	
Mercury, Total	0.00022	mg/L	EPA 245.1	7/10/14	W CM	A	
Nickel, Total	0.005	mg/L	EPA 200.7	7/18/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	7/18/14	W AWM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	7/18/14	W RGT	A	
Sodium, Total	1.5	mg/L	EPA 200.7	7/18/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM20 3113B	7/21/14	W AWM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	7/18/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	7/18/14	W RGT	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT BRW Wetland Wells  
 REPORT DATE: 7/21/2014

WORK ORDER: 1407-13013  
 DATE RECEIVED: 07/07/2014

TEST METHOD: EPA 8260C

007	Site: BRW-10S					Sampled: 7/7/14	13:08	Test Date: 7/14/14	W	MHM
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	U		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	< 1.0	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)	101	%	N		
Surr. 3 (4-Bromofluorobenzene)	98	%	N		Surr. 2 (Toluene d8)	104	%	N		
Unidentified Peaks	0		U							



## Laboratory Report

WaiteHeindel Environmental Mgt	070338
7 Kilburn Street	
Suite 301	
Burlington, VT 05406	
Atten: Miles Waite	

PROJECT: NEWSVT LF Quarterly Leachate

WORK ORDER: **1304-04658**

DATE RECEIVED: April 01, 2013

DATE REPORTED: April 12, 2013

SAMPLER: Wendy

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

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160 James Brown Dr., Williston, VT 05495  
Ph 802-879-4333 Fax 802-879-7103

d, Lebanon, NH 03766  
Ph 603-678-4891 Fax 603-678-4893



**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF Quarterly Leachate  
 REPORT DATE: 4/12/2013

WORK ORDER: 1304-04658  
 DATE RECEIVED: 04/01/2013

001	Site: Phase I Secondary Leachate	Date Sampled: 4/1/13	Time: 11:30
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Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	< 20	mg/L	SM18 5210B	4/3/13 10:43	W JSS	A	ANI
Chloride	500	mg/L	SM20 4500Cl-E	4/2/13	N JGM	A	
COD	240	mg/L	Hach 8000	4/2/13	N JGM	A	
TKN	160	mg/L	EPA 351.2	4/8/13	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM19 3113B	4/11/13	W LG	A	
Arsenic, Total	0.061	mg/L	SM19 3113B	4/5/13	W LG	A	
Barium, Total	< 0.20	mg/L	EPA 200.7	4/11/13	W LJF	A	
Beryllium, Total	< 0.01	mg/L	EPA 200.7	4/11/13	W LJF	A	
Cadmium, Total	< 0.02	mg/L	EPA 200.7	4/11/13	W LJF	A	
Chromium, Total	< 0.05	mg/L	EPA 200.7	4/11/13	W LJF	A	
Cobalt, Total	< 0.20	mg/L	EPA 200.7	4/11/13	W LJF	A	
Copper, Total	< 0.20	mg/L	EPA 200.7	4/11/13	W LJF	A	
Iron, Total	11	mg/L	EPA 200.7	4/11/13	W LJF	A	
Lead, Total	< 0.002	mg/L	SM19 3113B	4/5/13	W LG	A	
Manganese, Total	0.74	mg/L	EPA 200.7	4/11/13	W LJF	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	4/9/13	W CM	A	
Molybdenum, Total	< 0.20	mg/L	EPA 200.7	4/11/13	W LJF	A	
Nickel, Total	0.47	mg/L	EPA 200.7	4/11/13	W LJF	A	
Selenium, Total	< 0.002	mg/L	SM19 3113B	4/8/13	W LG	A	
Sodium, Total	480	mg/L	EPA 200.7	4/11/13	W LJF	A	
Thallium, Total	< 0.001	mg/L	SM19 3113B	4/11/13	W LG	A	
Vanadium, Total	< 0.20	mg/L	EPA 200.7	4/11/13	W LJF	A	
Zinc, Total	< 0.20	mg/L	EPA 200.7	4/11/13	W LJF	A	

002	Site: Phase II Secondary Leachate	Date Sampled: 4/1/13	Time: 11:30
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Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	< 20	mg/L	SM18 5210B	4/3/13 10:44	W JSS	A	ANI
Chloride	420	mg/L	SM20 4500Cl-E	4/2/13	N JGM	A	
COD	170	mg/L	Hach 8000	4/2/13	N JGM	A	
TKN	34	mg/L	EPA 351.2	4/8/13	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM19 3113B	4/11/13	W LG	A	
Arsenic, Total	< 0.001	mg/L	SM19 3113B	4/5/13	W LG	A	
Barium, Total	< 0.20	mg/L	EPA 200.7	4/11/13	W LJF	A	
Beryllium, Total	< 0.01	mg/L	EPA 200.7	4/11/13	W LJF	A	
Cadmium, Total	< 0.02	mg/L	EPA 200.7	4/11/13	W LJF	A	
Chromium, Total	< 0.05	mg/L	EPA 200.7	4/11/13	W LJF	A	
Cobalt, Total	< 0.20	mg/L	EPA 200.7	4/11/13	W LJF	A	
Copper, Total	< 0.20	mg/L	EPA 200.7	4/11/13	W LJF	A	
Iron, Total	0.64	mg/L	EPA 200.7	4/11/13	W LJF	A	
Lead, Total	< 0.002	mg/L	SM19 3113B	4/5/13	W LG	A	
Manganese, Total	12	mg/L	EPA 200.7	4/11/13	W LJF	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	4/9/13	W CM	A	

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF Quarterly Leachate  
 REPORT DATE: 4/12/2013

WORK ORDER: **1304-04658**  
 DATE RECEIVED: 04/01/2013

002	Site: Phase II Secondary Leachate	Date Sampled: 4/1/13	Time: 11:30
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<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Molybdenum, Total	< 0.20	mg/L	EPA 200.7	4/11/13	W LJF	A	
Nickel, Total	0.82	mg/L	EPA 200.7	4/11/13	W LJF	A	
Selenium, Total	< 0.002	mg/L	SM19 3113B	4/8/13	W LG	A	M-
Sodium, Total	380	mg/L	EPA 200.7	4/11/13	W LJF	A	
Thallium, Total	< 0.001	mg/L	SM19 3113B	4/11/13	W LG	A	M-
Vanadium, Total	< 0.20	mg/L	EPA 200.7	4/11/13	W LJF	A	
Zinc, Total	< 0.20	mg/L	EPA 200.7	4/11/13	W LJF	A	



**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF Quarterly Leachate  
 REPORT DATE: 4/12/2013

WORK ORDER: 1304-04658  
 DATE RECEIVED: 04/01/2013

TEST METHOD: EPA 8270C

001 Site: Phase I Secondary Leachate					Sampled: 4/1/13	11:30	Test Date: 4/5/13	W	MHM
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 5.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 2.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	A		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		B/N Surr.1 Nitrobenzene-d5	53	%	A	
B/N Surr.2 2-Fluorobiphenyl	63	%	A		B/N Surr.3 Terphenyl-d14	90	%	A	
Acid Surr.1 2-Fluorophenol	23	%	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
Acid Surr.2 Phenol-d8	25	%	A		Acid Surr.3 Tribromophenol	83	%	A	
Unidentified Peaks	> 10		U						

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF Quarterly Leachate  
 REPORT DATE: 4/12/2013

WORK ORDER: 1304-04658  
 DATE RECEIVED: 04/01/2013

TEST METHOD: EPA 8260B

001	Site: Phase I Secondary Leachate	Sampled: 4/1/13	11:30	Test Date: 4/8/13	W MGT				
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	A	
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	16.5	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	178	ug/L	N	M-
Methyl-t-butyl ether (MTBE)	4.4	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	12.5	ug/L	U		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	N	
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	A	
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	U	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	94	%	A	
Surr. 2 (Toluene d8)	94	%	A		Surr. 3 (4-Bromofluorobenzene)	95	%	A	
Unidentified Peaks	1		U						

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF Quarterly Leachate  
 REPORT DATE: 4/12/2013

WORK ORDER: 1304-04658  
 DATE RECEIVED: 04/01/2013

TEST METHOD: EPA 8270C

002 Site: Phase II Secondary Leachate					Sampled: 4/1/13	11:30	Test Date: 4/5/13	W	MHM
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 5.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 2.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	A		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		B/N Surr.1 Nitrobenzene-d5	68	%	A	
B/N Surr.2 2-Fluorobiphenyl	72	%	A		B/N Surr.3 Terphenyl-d14	93	%	A	
Acid Surr.1 2-Fluorophenol	30	%	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
Acid Surr.2 Phenol-d8	24	%	A		Acid Surr.3 Tribromophenol	84	%	A	
Unidentified Peaks	> 10		U						

**Laboratory Report**

CLIENT: WaiteHeindel Environmental Mgt  
 PROJECT: NEWSVT LF Quarterly Leachate  
 REPORT DATE: 4/12/2013

WORK ORDER: 1304-04658  
 DATE RECEIVED: 04/01/2013

TEST METHOD: EPA 8260B

002 Site: Phase II Secondary Leachate					Sampled: 4/1/13	11:30	Test Date: 4/8/13	W MGT	
Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	A	
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	77.5	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	U		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	N	
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	A	
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	U	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	91	%	A	
Surr. 3 (4-Bromofluorobenzene)	94	%	A		Surr. 2 (Toluene d8)	93	%	A	
Unidentified Peaks	1		U						

Report Summary of Qualifiers and Notes

M-: The laboratory fortified matrix (LFM) analysis indicates a potential negative bias in the reported value.

AN1: The blank dilution water dissolved oxygen (DO) decreased by 0.52 mg/L. The maximum dilution water depletion should be 0.20 mg/L. The glucose glutamic acid quality control sample failed high at 236 mg/L. The acceptable range is 168 to 228 mg/L.

# **APPENDIX E**



