PVE Sheffler

Civil Engineering
Surveying
Land Planning
Environmental
Municipal Services

October 4, 2011

Wayne Mizerak
New York State Dept. of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233-7014

OCT 1 . 2011

Re: **3rd Quarter 2011 Groundwater Monitoring Report;**
Apple Valley Shopping Center Superfund Site, LaGrange, New York;
Index No. II-CERCLA-10224;
NYSDEC Site #3-14-084
PVE Sheffler File #AL030070/160538

Dear Mr. Mizerak:

In September 2011, Conrad Geoscience Corp., a division of PVE Sheffler, LLC, continued the groundwater monitoring program at the Apple Valley Shopping Center (Figure 1) in accordance with the NYSDEC-approved Interim Remedial Measure (IRM) work plan dated July 2, 2004 and subsequently modified, as summarized below.

According to the original IRM Work Plan, the drinking water wells for seven residences of the Woodbridge Estates Subdivision were to be monitored on a semi-annual basis, assuming access is granted. All but Lots 6 and 11 were subsequently removed from the monitoring program after COCs decreased to non-detectable or trace concentrations in untreated water samples.

In February 2009, NYSDEC approved our request to discontinue periodic sampling of Monitoring Wells MW-1, MW-3, MW-5, and MW-6.

1.0 QUARTERLY GROUNDWATER MONITORING

On September 16, 2011, PVE Sheffler personnel collected groundwater samples from Monitoring Wells MW-2 and MW-7; and Recovery Wells RW-1, RW-2, RW-3, and AV-2 (Figure 2). A groundwater remediation system effluent sample was also collected (AVS-EFF). Depth-to-water measurements were recorded from the top of each well casing, and a groundwater contour map was prepared based on these measurements (Figure 3). In August 2011, residential supply well sampling was conducted at the following residences: Lot 6 and Lot 11 (Figure 4).

1.1 Monitoring Well and Recovery Well Sampling

Prior to sampling, PVE Sheffler personnel purged each monitoring well following USEPA protocol for low-flow (minimal draw-down) groundwater sampling until physical parameters stabilized. Water

quality parameters were monitored using an In-Situ® Troll 9500 water quality meter. Water samples were collected from monitoring wells using a bladder pump and dedicated polyethylene tubing and dispensed into laboratory provided containers.

Recovery well water samples were collected via in-line sample ports prior to treatment by the air stripper. Air stripper effluent samples were collected from the treated discharge pipe.

Samples were labeled, packed on ice, and shipped via overnight delivery for analysis of volatile organic compounds (VOCs) via USEPA Method 524.2.

1.2 Residential Supply Well Sampling

The original IRM Work Plan specifies collection and analysis of samples from supply wells for seven residences of the Woodbridge Estates Subdivision on a semi-annual basis, assuming access is granted. All but Lots 6 and 11 have subsequently been removed from the monitoring program.

PVE Sheffler contacted the owners of the two remaining sampling locations and coordinated access (Figure 4). A granular activated carbon (GAC) filtration system is installed and in operation at Lot 11, despite the availability of public drinking water. Both residences have water softeners.

Supply well samples were collected via in-line sample ports or spigots prior to GAC filtration and/or water softening. If a GAC filtration system was present, water samples were collected post-treatment and mid-treatment to monitor the effectiveness of the GAC system. Water was allowed to run at a tap for at least ten minutes prior to sampling. Samples were collected at each residence as follows:

- Lot 6: Sample collected from spigot at pressure tank, prior to water softener (no GAC filtration system is present).

- Lot 11: Sample collected from spigot at pressure tank, prior to water softener and GAC filtration system. Mid-treatment sample collected from sample port between two GAC filtration canisters. Post-treatment sample collected from the bathroom tap.

Samples were labeled, packed on ice, and shipped via overnight delivery for analysis of VOCs using USEPA Method 524.2.

2.0 RESULTS

2.1 Monitoring Wells and Recovery Wells

Sample results for the contaminants of concern (COC), tetrachloroethene; trichloroethene; cis-1,2-dichloroethene; and vinyl chloride, are summarized in Table 1. Analytical reports are attached. Total COC concentrations for each well are as follows:

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MW-2:	2,301 µg/l
MW-7:	10.7 µg/l
RW-1:	145.5 µg/l
RW-2:	2,060 µg/l
RW-3:	449.2 µg/l
AV-2:	17 µg/l

The total COC concentration for AVS-EFF was non-detect. Based on the mass loading and measured effluent concentrations of the COC, the air stripper was performing at a 100% removal efficiency for COC.

2.2 Residential Supply Wells

Sample results for COCs are summarized in Table 2. Analytical reports are attached. Total COC concentrations for untreated samples at each residence are as follows:

Lot 6: 1.4 µg/l
Lot 11 0.0 µg/l

The total COC concentrations for the post-treatment and mid-treatment samples at Lot 11 were 1.2 µg/l and non-detectable (ND), respectively.

3.0 CONCLUSIONS

The September 2011 groundwater data indicates the total COC concentrations in Recovery Wells RW-1, RW-2, RW-3, and AV-2 have been substantially reduced since the system was first placed into operation in 2006.

- Total COC concentrations in Recovery Well RW-1 are twenty times lower than initial sampling.
- Total COC concentrations in Recovery Well RW-2 are approximately four times lower than initial sampling.
- Total COC concentrations in Recovery Well RW-3 are approximately three times lower than initial sampling.
- The concentration of total COCs in Recovery Well AV-2 was one of the lowest results since sampling began in 2006; total COCs are almost 300 times lower than initial sampling.

COC concentrations in residential supply wells remained below New York State Department of Health drinking water standards with respect to the analytes tested. Even though public drinking water standards do not govern private water supplies, they are used as guidance values.

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- PCE was detected at a concentration of 1.4 µg/l in supply well samples collected from Lot 6 in August 2011. This concentration is below public water standards. Concentrations are comparable to historic values.

- No COCs were detected in the samples collected from Lot 11 at the pre-treatment or mid-treatment samples. PCE was present at low concentrations in the post-treatment sample. Interviews with the property owner indicate that two days prior to sampling, a plumber flushed bleach through the post-treatment system to remediate a moldy smell in the water due to non-use (the house is for sale and currently generally vacant). It is possible that this caused residual PCE in the system to leach into the post-treatment water.

As indicated by the groundwater contour map (Figure 3), the hydraulic gradient created by the groundwater extraction and treatment system demonstrate that groundwater movement is toward the recovery wells and away from adjacent properties and perimeter wells. This, combined with significant reductions in downgradient groundwater concentrations, indicates that the extraction and treatment system continues to effectively remediate the area.

The next round of quarterly groundwater monitoring is scheduled for November 2011. If you have any questions, please do not hesitate to call.

Sincerely,

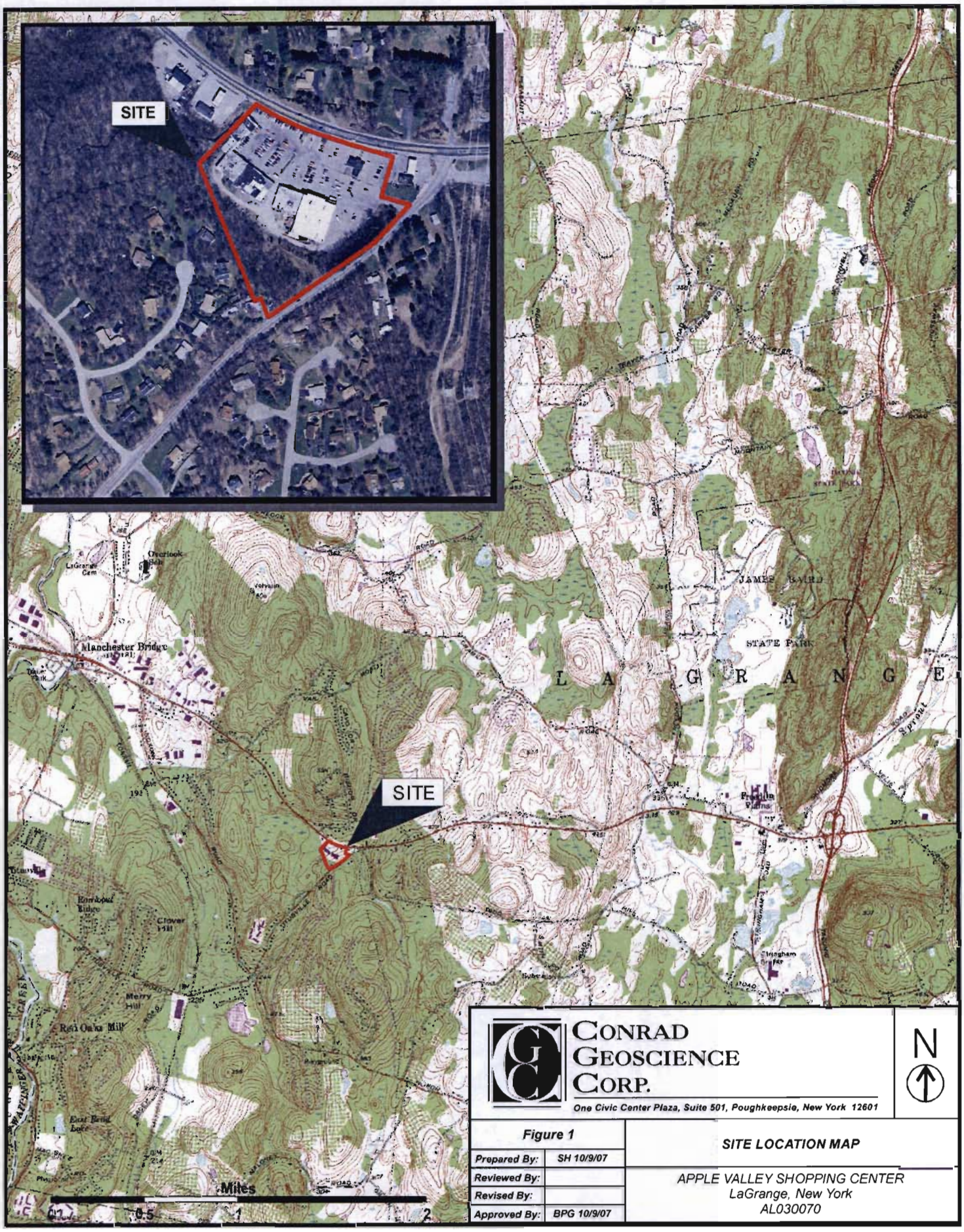
PVE SHEFFLER, LLC

Christopher B. Brown, CPG
Principal\Senior Hydrogeologist

CBB/tla

attachments

cc: James A. Klein, Apple Valley
David Engel, Esq.
Mark Millspaugh, Sterling Environmental
Steven Bates, NYSDOH (electronic only)
Fay S. Navratil, NYSDOH
George Heitzman, NYSDEC (electronic only)
D. MacDougal
J. Harmon



CONRAD GEOSCIENCE CORP.

One Civic Center Plaza, Suite 501, Poughkeepsie, New York 12601

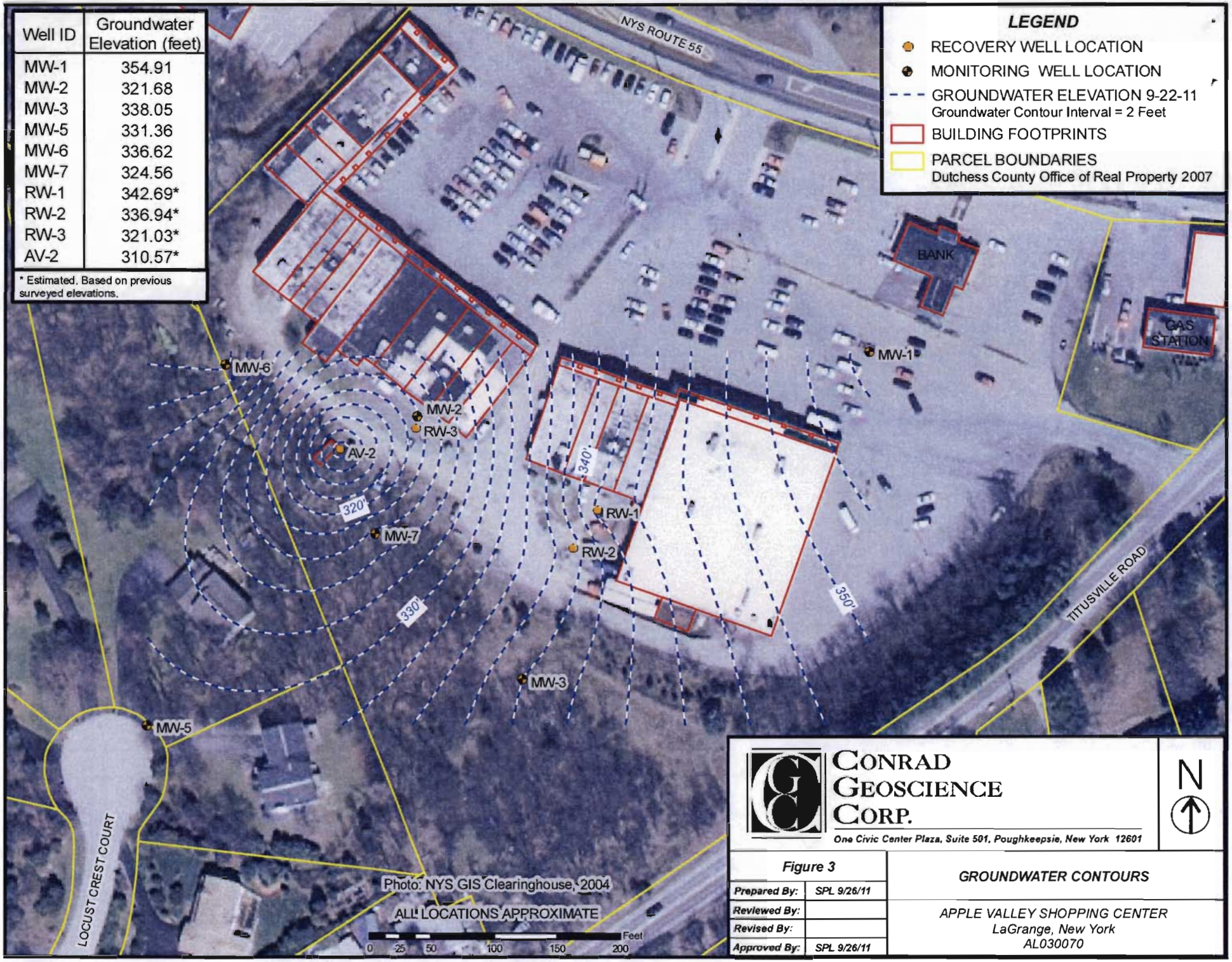
N

Figure 1		SITE LOCATION MAP
Prepared By:	SH 10/9/07	
Reviewed By:		APPLE VALLEY SHOPPING CENTER LaGrange, New York AL030070
Revised By:		
Approved By:	BPG 10/9/07	

CONRAD GEOSCIENCE CORP.

One Civic Center Plaza, Suite 501, Poughkeepsie, New York 12601

Figure 2	**SELECTED SITE FEATURES MAP**
Prepared By: SH 10/9/07	
Reviewed By:	*APPLE VALLEY SHOPPING CENTER*
Revised By: SPL 5/11/09	*LaGrange, New York*
Approved By: SPL 5/1//09	*AL030070*


Well ID | Groundwater Elevation (feet)
MW-1 354.91
MW-2 321.68
MW-3 338.05
MW-5 331.36
MW-6 336.62
MW-7 324.56
RW-1 342.69*
RW-2 336.94*
RW-3 321.03*
AV-2 310.57*
* Estimated. Based on previous surveyed elevations.
LEGEND
RECOVERY WELL LOCATION
MONITORING WELL LOCATION
GROUNDWATER ELEVATION 9-22-11
Groundwater Contour Interval = 2 Feet
BUILDING FOOTPRINTS
PARCEL BOUNDARIES
Dutchess County Office of Real Property 2007
NYS ROUTE 55
BANK
GAS STATION
TITUSVILLE ROAD
LOCUST CREST COURT
MW-1
MW-2
MW-3
MW-5
MW-6
MW-7
RW-1
RW-2
RW-3
AV-2
320'
330'
340'
350'
Photo: NYS GIS Clearinghouse, 2004
ALL LOCATIONS APPROXIMATE
0 25 50 100 150 200 Feet
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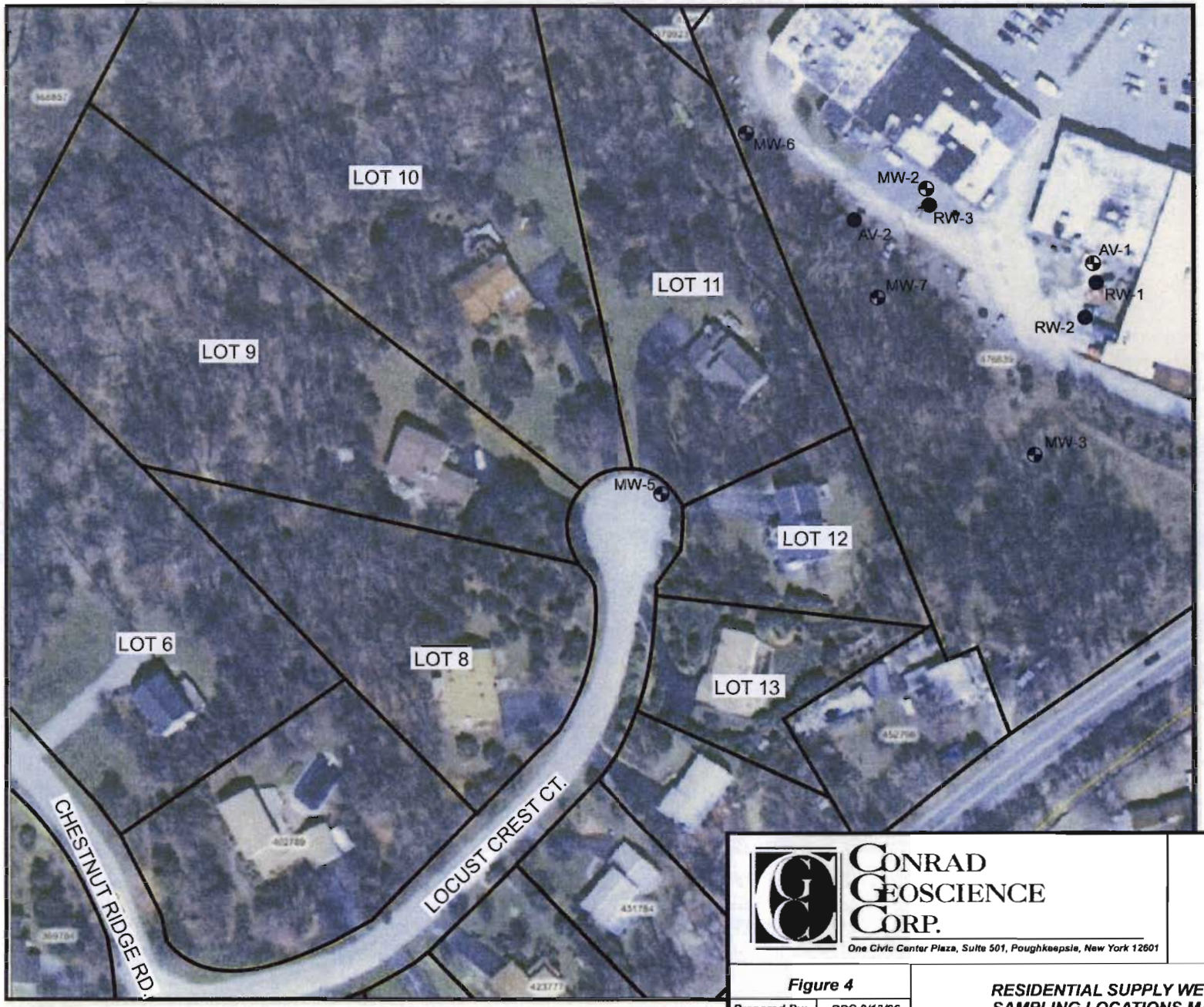
One Civic Center Plaza, Suite 501, Poughkeepsie, New York 12601
N
Figure 3
GROUNDWATER CONTOURS
Prepared By: SPL 9/26/11
Reviewed By:
Revised By:
Approved By: SPL 9/26/11
APPLE VALLEY SHOPPING CENTER
LaGrange, New York
AL030070



0 120
FEET

ALL LOCATIONS ARE APPROXIMATE

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Figure 4		RESIDENTIAL SUPPLY WELL SAMPLING LOCATIONS MAP
Prepared By:	BPG 9/13/06	
Reviewed By:		APPLE VALLEY SHOPPING CENTER Lagrange, New York AL030070
Revised By:	BPG 10/1/07	
Approved By:	BPG 10/1/07	

Table 1. **Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;**
USEPA Method 524.2; collected **January 2006 through September 2011;**
Apple Valley Shopping Center, Lagrange, New York;
PVE Sheffler File #160538

Sample Identification	Dates Sampled	Chemical Constituent				
		Tetrachloroethene (5 µg/l[1])	Trichloroethene (5 µg/l[1])	cis-1,2-Dichloroethene (5 µg/l[1])	Vinyl Chloride (2 µg/l[1])	Total COC
Volatile Organic Compounds						
RW-1	2-9-06	**2,850**	**119**	**53.6**	ND < 10	3,022.6
	3-9-06	**412**	**19.9**	**13.6**	ND < 1.0	445.5
	5-16-06	**394**	**21.0**	**19.0**	ND < 1.0	434
	8-22-06	**583**	**6.4**	**8.6** M	ND < 2.5	598
	11-28-06	**265**	**7.7**	**10**	ND < 1.0	282.7
	12-11-06	**217**	**6.9**	**9.4**	ND < 2.5	233.3
	3-1-07	**591**	**7.4**	**5.4**	ND < 2.5	603.8
	5-29-07	**298**	**8.4**	ND < 1.0	ND < 1.0	306.4
	8-28-07	**763**	**9.1**	**5.2**	ND < 5.0	777.3
	11-28-07	**606**	**7.8**	**7.4**	ND < 2.5	621.2
	2-28-08	**1,400**	**14.0**	**18.4**	ND < 10	1,432.4
	5-27-08	**1,170**	**45.0**	**102**	ND<10	1,317
	9-9-08	**925**	**20.9**	**18.5**	ND<5.0	964.4
	11-25-08	**3,090**	ND<50.0	ND<50.0	ND<50.0	3,090
	3-5-09	**500**	**15.2**	ND<10	ND<10 S	515.2
	5-27-09	**412**	**17.8**	ND<10	ND<10	429.8
	8-25-09	**134**	**10**	**5.2**	ND<5.0	149.2
	12-8-09	**264**	**11.4**	ND<5	ND<5	275.4
	2-17-10	**271**	**7.1**	3.2	ND<0.5	281.3
	5-27-10	**93.7**	**5.7**	ND<5	ND<5 M	99.4
	8-25-10	**310**	**26.5**	**27.4**	ND<5.0	363.9
	11-23-10	**15.5**	0.6	ND<0.5	ND<0.5	16.1
	2-28-11	**260**	ND<10	ND<10	ND<10 S	260
	6-1-11	**203**	**12.8**	ND<10	ND<10	215.8
	9-16-11	**131**	**9.0**	**5.5**	ND<5.0	145.5

Notes:
1 - Standards are for groundwater according to 6NYCRR Part 700-705, Class GA Groundwater Standards;
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Boldface type designates those compounds detected at concentrations exceeding NYSDEC standards;
S = Spike recovery outside accepted recovery limits;
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COC = Contaminants of concern.

Table 1 cont'd. **Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;**
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Sample Identification	Dates Sampled	Chemical Constituent				
		Tetrachloroethene (5 µg/l[1])	Trichloroethene (5 µg/l[1])	cis-1,2-Dichloroethene (5 µg/l[1])	Vinyl Chloride (2 µg/l[1])	Total COC
Volatile Organic Compounds						
RW-2	2-9-06	**7,860**	**132**	**148**	ND < 25	8,140
	3-9-06	**2,960**	**24.8**	**20.8**	ND < 10	3,005.6
	5-16-06	**1,800**	**12.2**	**20.1**	ND < 5.0	1,832.3
	8-22-06	**14,100**	**76**	**177 M**	ND < 50.0	14,353
	11-28-06	**3,340**	ND < 25.0	**25.5**	ND < 25.0	3,365.5
	12-11-06	**1,190**	**10.9**	**22.1**	ND < 5.0	1,223
	3-1-07	**5,100**	ND < 50.0	ND < 50.0	ND < 50.0	5,100
	5-29-07	**1,080**	**16.6**	ND < 10.0	ND < 10.0	1,096.6
	8-28-07	**325**	4.1	3.6	ND < 2.5	332.7
	11-28-07	**1,770**	ND < 10.0	ND < 10.0	ND < 10.0	1,770
	2-28-08	**4,700**	**30.5**	**46.0**	ND < 25	4,776.5
	5-27-08	**2,510**	**187**	**114**	ND<25.0	2,811
	9-9-08	**4,040**	**52.5**	**68.0**	ND<25.0	4,160.5
	11-25-08	**4,790**	ND < 100.0	ND < 100.0	ND < 100.0	4,790
	3-5-09	**4,800**	ND<100	ND<100	ND<100 S	4,800
	5-27-09	**5,090**	ND<100	ND<100	ND<100	5,090
	8-25-09	**2,610**	ND<100	ND<100	ND<100 S	2,610
	12-8-09	**861**	ND<25	ND<25	ND<25	861
	2-17-10	**1,070**	ND<50	ND<50	ND<50	1,070
	5-27-10	**1,000**	ND<50	ND<50	ND<50	1,000
	8-25-10	**421**	ND<10	ND<10	ND<10	421
	11-23-10	**2,210**	ND<100	ND<100	ND<100	2,210
	2-28-11	**3,050**	ND<100	ND<100	ND<100 S	3,050
	6-1-11	**4,400**	ND<100	ND<100	ND<100	4,400
	9-16-11	**2,060**	ND<100	ND<100	ND<100	2,060

Notes:
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Table 1 cont'd. **Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;**
USEPA Method 524.2; collected **January 2006 through September 2011;**
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Sample Identification	Dates Sampled	Chemical Constituent				
		Tetrachloroethene (5 µg/l[1])	Trichloroethene (5 µg/l[1])	cis-1,2-Dichloroethene (5 µg/l[1])	Vinyl Chloride (2 µg/l[1])	Total COC
Volatile Organic Compounds						
RW-3	2-9-06	**1,250**	**102**	**88.8**	ND < 5.0	1,440.8
	3-9-06	**567**	**67.3**	**72.8**	**3.9**	711
	5-16-06	**538**	**53.8**	**99.4**	ND < 2.5	691.2
	8-22-06	**151**	**19.6**	**34.1** M	ND < 2.5	204.7
	11-28-06	**451**	**49.5**	**103**	**4.0**	607.5
	12-11-06	**467**	**66.4**	**147**	**5.7**	686.1
	3-1-07	**494**	**59**	**75.3**	ND < 2.5	628.3
	5-29-07	**550**	**54.3**	**93.8**	**5.2**	703.3
	8-28-07	**657**	**69.7**	**121**	**4.4**	852.1
	11-28-07	**541**	**57.0**	**103**	ND < 5.0 S	701
	2-28-08	**618**	**53.0**	**99.7**	ND < 5.0	770.7
	5-27-08	**543**	**55.2**	**89.8**	ND<10	688
	9-9-08	**480**	**54.2**	**85.2**	ND<5.0	619.4
	11-25-08	**876**	**82.2**	**120**	ND<10	1,078.2
	3-5-09	**347**	**38.8**	**49.4**	ND<10 S	435.2
	5-27-09	**351**	**40.6**	**42.2**	ND<10	433.8
	8-25-09	**423**	**53.4**	**75.4**	ND<10	551.8
	12-8-09	**763**	**83.8**	**78.2**	ND<10	925
	2-17-10	**1,770**	**172**	**182**	ND<50	2,124
	5-27-10	**521**	**57.0**	**87.5**	ND<25 M	665.5
	8-25-10	**180**	**18.6**	**30.9**	ND<5.0	229.5
	11-23-10	**368**	**46.4**	**36.6**	ND<10	451
	2-28-11	**438**	**51.0**	**40.0**	ND<10 S	529
	6-1-11	**840**	**82.5**	**77.0**	ND<25.0	999.5
	9-16-11	**360**	**38.2**	**51.0**	ND<10	449.2

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Table 1 cont'd. **Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;**
USEPA Method 524.2; collected **January 2006 through September 2011;**
Apple Valley Shopping Center, Lagrange, New York;
PVE Sheffler File #160538

Sample Identification	Dates Sampled	Chemical Constituent				
		Tetrachloroethene (5 µg/l[1])	Trichloroethene (5 µg/l[1])	cis-1,2-Dichloroethene (5 µg/l[1])	Vinyl Chloride (2 µg/l[1])	Total COC
Volatile Organic Compounds						
AV-2	2-9-06	**3,560**	**380**	**979**	ND < 10	4,919
	3-9-06	**90.7**	**11.0**	**19.5**	ND < 0.5	121.2
	5-16-06	**913**	**13.2**	**18.0**	ND < 2.5	944.2
	8-22-06	**28.4**	3.4	**9.9** M	ND < 0.5	41.7
	11-28-06	**24.7**	3.5	**6.6**	ND < 0.5	34.8
	12-11-06	**28.5**	4.0	**9.2**	ND < 0.5	41.7
	3-1-07	**25.4**	4.0	**5.2**	ND < 0.5	34.6
	5-29-07	**26.0**	3.8	**6.1**	ND < 0.5	35.9
	8-28-07	**24.4**	ND < 0.5	**6.5**	ND < 0.5	30.9
	11-28-07	**13.2**	2.1	3.6	ND < 0.5 S	18.9
	2-28-08	**126**	**10.7**	**26.2**	ND < 0.5	162.9
	5-27-08	**98.5**	**10.4**	**24.3**	ND<0.5	133.2
	9-9-08	**10**	1.8	3.3	ND<0.5	15.1
	11-25-08	**20.9**	3.3	4.6	ND<0.5	28.8
	3-5-09	**180**	**17.5**	**31.4**	ND<0.5	228.9
	5-27-09	**146**	**19.5**	**22.5**	ND<5.0	188
	8-25-09	**45.4**	**5.6**	**9.1**	ND<2.5 S	60.1
	12-8-09	**40.3**	**5.2**	**5.8**	ND<1	51.3
	2-17-10	**59.4**	**7.4**	**8.8**	ND<0.5	75.6
	5-27-10	**17.2**	2.8	4.1	ND<0.5 M	24.1
	8-25-10	**14.8**	2.1	1.9	ND<0.5	18.8
	11-23-10	**8.3**	1.4	1.3	ND<0.5	11.0
	2-28-11	**11.9**	1.8	ND<0.5	ND<0.5 S	13.7
	6-1-11	**17.6**	2.8	ND<0.5	ND<0.5	20.4
	9-16-11	**12.6**	2.0	2.4	ND<0.5	17

Notes:
1 - Standards are for groundwater according to 6NYCRR Part 700-705, Class GA Groundwater Standards;
All concentrations are in µg/l;
ND = Not detected above the method detection limit listed;
Boldface type designates those compounds detected at concentrations exceeding NYSDEC standards;
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COC = Contaminants of concern.

Table 1 cont'd. **Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;**
USEPA Method 524.2; collected **January 2006 through September 2011;**
Apple Valley Shopping Center, Lagrange, New York;
PVE Sheffler File #160538

Sample Identification	Dates Sampled	Chemical Constituent				
		Tetrachloroethene (5 µg/l[1])	Trichloroethene (5 µg/l[1])	cis-1,2-Dichloroethene (5 µg/l[1])	Vinyl Chloride (2 µg/l[1])	Total COC
Volatile Organic Compounds						
AVS-EFF	2-9-06	**146**	**8.3**	**22.1**	ND < 0.5	176.4
	3-9-06	**12.3**	1.1	1.4	ND < 0.5	14.8
	5-16-06	**14**	0.6	1.5	ND < 0.5	16.1
	7-5-06	1.7	ND < 0.5	ND < 0.5	ND < 0.5	1.7
	8-22-06	**7.4**	ND < 0.5	ND < 0.5	ND < 0.5	7.4
	11-28-06	**85.8**	4.9	**13.0**	ND < 0.5	103.7
	12-11-06	2.1	ND < 0.5	ND < 0.5	ND < 0.5	2.1
	3-1-07	2.4	ND < 0.5	ND < 0.5	ND < 0.5	2.4
	5-29-07	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
	8-28-07	2.0	ND < 0.5	ND < 0.5	ND < 0.5	2.0
	11-28-07	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5 S	ND
	2-28-08	2.8	ND < 0.5	ND < 0.5	ND < 0.5	2.8
	5-27-08	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
	9-11-08	0.5	ND<0.5	ND<0.5	ND<0.5	0.5
	11-25-08	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
	3-5-09	1.4	ND<0.5	ND<0.5	ND<0.5	1.4
	5-27-09	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
	8-25-09	1.6	ND<0.5	0.7	ND<0.5	2.3
	12-30-09	4.3	0.5	1.1	ND<0.5	5.9
	2-17-10	3.6	ND<0.5	0.8	ND<0.5	4.4
	5-27-10	4.1	ND<0.5	0.6	ND<0.5	4.7
	8-25-10	3.5	ND<0.5	0.6	ND<0.5	4.1
	12-21-10	2.1	ND<0.5	ND<0.5	ND<0.5	2.1
	2-28-11	1.5	ND<0.5	ND<0.5	ND<0.5 S	1.5
	8-3-11*	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
	9-16-11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND

Notes:
1 - Standards are for groundwater according to 6NYCRR Part 700-705, Class GA Groundwater Standards;
All concentrations are in µg/l;
ND = Not detected above the method detection limit listed;
Boldface type designates those compounds detected at concentrations exceeding NYSDEC standards;
S = Spike recovery outside accepted recovery limits;
M = Matrix spike recoveries outside QC limits. Matrix bias indicated;
COC = Contaminants of concern;
* Final sampling for second quarter 2011

Table 1 cont'd. **Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;**
USEPA Method 524.2; collected **January 2006 through September 2011;**
Apple Valley Shopping Center, Lagrange, New York;
PVE Sheffler File #160538

Sample Identification	Dates Sampled	Chemical Constituent				
		Tetrachloroethene (5 µg/l[1])	Trichloroethene (5 µg/l[1])	cis-1,2-Dichloroethene (5 µg/l[1])	Vinyl Chloride (2 µg/l[1])	Total COC
Volatile Organic Compounds						
AV-1	1-16-06	**35.5**	1.4	2.0	ND < 0.5	38.9
	5-16-06	**13.9**	ND < 0.5	ND < 0.5	ND < 0.5	13.9
	8-23-06	**10.3**	0.6	0.8 M	ND < 0.5	11.7
MW-1	1-17-06	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
	5-16-06	ND < 0.5	2.2	ND < 0.5	ND < 0.5	2.2
	8-22-06	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
	8-28-07	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
	9-10-08	3.5	ND<0.5	ND<0.5	ND<0.5	3.5
MW-2	1-13-06	**967**	**95.7**	**94.9**	ND < 5.0	1,157.6
	5-16-06	**4,440**	**638**	**1,300**	ND < 25.0	6,378
	8-22-06	**2,710**	**390**	**943** M	**24.2**	4,067.2
	8-28-07	**2,760**	**396**	**752**	**31.0**	3,939
	9-10-08	**1,290**	**182**	**484**	**32.7**	1,988.7
	8-25-09	**2,630**	**440**	**772**	ND<100 S	3,842
	8-25-10	**468**	**63.2**	**106**	ND<10	637.2
	9-16-11	**1,630**	**229**	**392**	**50.0**	2,301
MW-3	1-16-06	0.6	ND < 0.5	ND < 0.5	ND < 0.5	0.6
	5-16-06	2.6	ND < 0.5	ND < 0.5	ND < 0.5	2.6
	8-23-06	4.3	ND < 0.5	ND < 0.5	ND < 0.5	4.3
	8-29-07	2.5	ND < 0.5	ND < 0.5	ND < 0.5	2.5
	9-10-08	2.8	ND<0.5	0.6	ND<0.5	3.4

Notes:
1 - Standards are for groundwater according to 6NYCRR Part 700-705, Class GA Groundwater Standards;
All concentrations are in µg/l;
ND = Not detected above the method detection limit listed;
Boldface type designates those compounds detected at concentrations exceeding NYSDEC standards;
M = Matrix spike recoveries outside QC limits. Matrix bias indicated;
S = Spike recovery outside accepted recovery limits;
COC = Contaminants of concern.

Table 1 cont'd. **Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;**
USEPA Method 524.2; collected **January 2006 through September 2011;**
Apple Valley Shopping Center, Lagrange, New York;
PVE Sheffler File #160538

Sample Identification	Dates Sampled	Chemical Constituent				
		Tetrachloroethene (5 µg/l[1])	Trichloroethene (5 µg/l[1])	cis-1,2-Dichloroethene (5 µg/l[1])	Vinyl Chloride (2 µg/l[1])	Total COC
Volatile Organic Compounds						
MW-5	1-18-06	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
	8-23-06	4.0	ND < 0.5	0.6 M	ND < 0.5	4.6
	3-5-07	2.0	ND < 0.5	ND < 0.5	ND < 0.5	2.0
	8-28-07	3.3	ND < 0.5	ND < 0.5	ND < 0.5	3.3
	3-26-08	0.7	ND < 0.5	ND < 0.5	ND < 0.5	0.7
	9-11-08	2.4	ND<0.5	ND<0.5	ND<0.5	2.4
MW-6	1-16-06	**21.6**	3.4	**7.9**	ND < 0.5	32.9
	5-16-06	**6.0**	0.6	ND < 0.5	ND < 0.5	6.6
	8-22-06	3.7	ND < 0.5	ND < 0.5	ND < 0.5	3.7
	8-28-07	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
	9-10-08	2.8	ND<0.5	ND<0.5	ND<0.5	2.8
MW-7	1-16-06	**6.1**	3.6	0.9	ND < 0.5	10.6
	5-16-06	**34.0**	3.2	**7.3**	ND < 0.5	44.5
	8-22-06	**23.6**	2.8	**8.7** M	ND < 0.5	35.1
	8-28-07	**12.5**	1.9	2.8	ND < 0.5	17.2
	9-10-08	**17.1**	1.4	3.7	ND<0.5	22.2
	8-25-09	**27.2**	3.9	**8.0**	ND<0.5 S	39.1
	8-25-10	**9.9**	2.7	2.6	ND<0.5	15.2
	9-16-11	**8.6**	1.2	0.9	ND<0.5	10.7

Notes:
1 - Standards are for groundwater according to 6NYCRR Part 700-705, Class GA Groundwater Standards;
All concentrations are in µg/l;
ND = Not detected above the method detection limit listed;
Boldface type designates those compounds detected at concentrations exceeding NYSDEC standards;
M = Matrix spike recoveries outside QC limits. Matrix bias indicated;
S = Spike recovery outside accepted recovery limits;
COC = Contaminants of concern.

Table 2. **Volatile Organic Compounds (VOCs) in Residential Supply Well Groundwater Samples;** USEPA Method 524.2; collected **March 1998 through August 2011;** Apple Valley Shopping Center, LaGrange, New York; PVE Sheffler File #AL030070/160538

Sample Identification	Dates Sampled	Chemical Constituent				
		Tetrachloroethene (5 µg/l[1])	Trichloroethene (5 µg/l[1])	cis-1,2-Dichloroethene (5 µg/l[1])	Vinyl Chloride (2 µg/l[1])	Total COC
Volatile Organic Compounds						
Lot 6 (Lipka)	1-29-03	1.0	ND<0.5	ND < 0.5	ND	1.0
	8-23-06	4.5	ND<0.5	0.9 M	ND<0.5	5.4
	2-27-07	2.6	ND<0.5	0.6	ND<0.5	3.2
	8-7-07	2.2	0.8	ND < 0.5	ND<0.5	3.0
	2-27-08	**9.8**	0.6	1.3	ND<0.5	11.7
	6-3-08	3.0	ND<0.5	0.6	ND<0.5	3.6
	9-5-08	2.1	ND<0.5	0.6	ND<0.5	2.7
	3-19-09	2.9	ND<0.5	0.9	ND<0.5	3.8
	8-17-09	3.7	0.8	1.1	ND<0.5	5.6
	2-4-10	2.3	ND<0.5	ND<0.5	ND<0.5	2.3
	8-4-10	1.1	ND<0.5	ND<0.5	ND<0.5	1.1
	2-10-11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
	8-9-11	1.4	ND<0.5	ND<0.5	ND<0.5	1.4
Lot 8	1-29-03	0.6	ND	ND	ND	0.6
	8-22-06	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
	2-23-07	0.8	ND < 0.5	ND < 0.5	ND < 0.5	0.8
Lot 9	1-29-03	0.8	ND	0.6	ND	1.4
	2-23-07	0.9	ND < 0.5	0.6	ND < 0.5	1.5
	8-24-07	0.7	0.5	ND < 0.5	ND < 0.5	1.2
	2-29-08	1.5	1.0	1.9	ND < 0.5	4.4
	9-5-08	ND<0.5	0.6	0.7	ND<0.5	1.3

Notes:
1 - Standards are for groundwater according to 6NYCRR Part 700-705, Class GA Groundwater Standards;
All concentrations are in µg/l;
ND = Not detected above the method detection limit listed;
Boldface type designates those compounds detected at concentrations exceeding NYSDEC standards;
M = Matrix spike recoveries outside QC limits. Matrix bias indicated;
S = Associated LCS outside QC windows;
COC = Contaminants of concern.

Table 2 cont'd. **Volatile Organic Compounds (VOCs) in Residential Supply Well Groundwater Samples;** USEPA Method 524.2; collected **March 1998 through August 2011;** Apple Valley Shopping Center, LaGrange, New York; PVE Sheffler File #AL030070/160538

Sample Identification	Dates Sampled	Chemical Constituent				
		Tetrachloroethene (5 µg/l[1])	Trichloroethene (5 µg/l[1])	cis-1,2-Dichloroethene (5 µg/l[1])	Vinyl Chloride (2 µg/l[1])	Total COC
Volatile Organic Compounds						
Lot 10 Upstream	9-01	**7.8**	3.4	4.0	ND	15.2
	3-02	3.7	2.1	2.6	ND	8.4
	9-02	ND	ND	ND	ND	ND
	4-03	2.1	2.2	1.9	ND	6.2
	11-03	1.8	2.2	2.6	ND	6.6
	5-18-04	1.9	2.0	2.0	ND	5.9
	12-14-04	3.2	3.3	2.9	ND	9.4
	7-13-05	4.77	3.54	2.85	ND	11.16
	8-25-06	**15.4**	4.1 M	**10.3**	ND < 0.5	29.8
	8-30-07	**8.0**	3.9	4.6	ND < 0.5	16.5
	2-28-08	**12.1**	**12.1**	**15.8**	ND < 0.5	40

Notes:
1 - Standards are for groundwater according to 6NYCRR Part 700-705, Class GA Groundwater Standards;
All concentrations are in µg/l;
ND = Not detected above the method detection limit listed;
Boldface type designates those compounds detected at concentrations exceeding NYSDEC standards;
M = Matrix spike recoveries outside QC limits. Matrix bias indicated;
S = Associated LCS outside QC windows;
COC = Contaminants of concern.

Table 2 cont'd. **Volatile Organic Compounds (VOCs) in Residential Supply Well Groundwater Samples;** USEPA Method 524.2; collected **March 1998 through August 2011;** Apple Valley Shopping Center, LaGrange, New York; PVE Sheffler File #AL030070/160538

Sample Identification	Dates Sampled	Chemical Constituent				
		Tetrachloroethene (5 µg/l[1])	Trichloroethene (5 µg/l[1])	cis-1,2-Dichloroethene (5 µg/l[1])	Vinyl Chloride (2 µg/l[1])	Total COC
Volatile Organic Compounds						
Lot 11 Upstream (Alben)	3-18-98	ND	ND	ND	ND	ND
	1-25-07	2.8	0.5	ND < 0.5	ND < 0.5 S	3.3
	8-27-07	1.6	0.5	ND < 0.5	ND < 0.5	2.1
	2-28-08	**20.2**	1.3	2.0	ND < 0.5	23.5
	6-26-08	2.5	1.6	1.9	ND<0.5	6.0
	9-5-08	0.9	ND<0.5	ND<0.5	ND<0.5	0.9
	3-12-09	1.4	1.0	1.5	ND<0.5	3.9
	9-29-09	1.4	ND<0.5	ND<0.5	ND<0.5	1.4
	2-24-10	1.2	ND<0.5	ND<0.5	ND<0.5	1.2
	8-5-10	1.2	ND<0.5	ND<0.5	ND<0.5	1.2
	3-3-11	1.4	1.2	1.1	ND<0.5	3.7
	8-5-11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
Lot 12	1-29-03	ND < 0.5	ND	ND	ND	ND
	9-7-06	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
	2-21-07	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
	8-28-07	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
Lot 13	2-22-07	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
	8-21-07	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND

Notes:
1 - Standards are for groundwater according to 6NYCRR Part 700-705, Class GA Groundwater Standards;
All concentrations are in µg/l;
ND = Not detected above the method detection limit listed;
Boldface type designates those compounds detected at concentrations exceeding NYSDEC standards;
M = Matrix spike recoveries outside QC limits. Matrix bias indicated;
S = Associated LCS outside QC windows;
COC = Contaminants of concern.

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ENVIRONMENTAL SERVICES, INC.

Analytical Report Cover Page

Conrad Geoscience

For Lab Project # 11-3957
Issued October 3, 2011
This report contains a total of 10 pages

The reported results relate only to the samples as they have been received by the laboratory.

Any noncompliant QC parameters having impact on the data are flagged or documented on the final report.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

"<" = analyzed for but not detected at or above the reporting limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Duplicate results outside QC limits. May indicate a non-homogenous matrix.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 585-647-2530 FAX 585-647-3311

LABORATORY REPORT PURGEABLE ORGANIC COMPOUNDS

Client: Conrad Geoscience

Client Job Site: Apple Valley Shopping Center LaGrangeville

Client Job No.: 160537

Field Location: MW-2

Lab Project No.: 11-3957

Lab Sample No.: 13668

Sample Type: Water

Date Sampled: 09/16/11

Date Received: 09/19/11

Date Analyzed: 09/23/11

Purgeable Organic Compounds	Results (ug/L)	Purgeable Organic Compounds	Results (ug/L)	
1,1,1,2-Tetrachloroethane	< 50.0	Chlorobenzene	< 50.0	
1,1,1-Trichloroethane	< 50.0	Chloroethane	< 100	
1,1,2,2-Tetrachloroethane	< 50.0	Chloroform	< 50.0	
1,1,2-Trichloroethane	< 50.0	Chloromethane	< 50.0	
1,1-Dichloroethane	< 50.0	cis-1,2-Dichloroethene	392	X
1,1-Dichloroethene	< 50.0	cis-1,3-Dichloropropene	< 50.0	
1,1-Dichloropropene	< 50.0	Dibromochloromethane	< 50.0	
1,2,3-Trichlorobenzene	< 50.0	Dibromomethane	< 50.0	
1,2,3-Trichloropropane	< 50.0	Dichlorodifluoromethane	< 50.0	
1,2,4-Trichlorobenzene	< 50.0	Ethylbenzene	< 50.0	
1,2,4-Trimethylbenzene	< 50.0	Hexachlorobutadiene	< 50.0	
1,2-Dichlorobenzene	< 50.0	Isopropylbenzene	< 50.0	
1,2-Dichloroethane	< 50.0	m,p-Xylene	< 50.0	
1,2-Dichloropropane	< 50.0	Methyl-t-Butyl Ether	< 200	S
1,3,5-Trimethylbenzene	< 50.0	Methylene chloride	233	BX
1,3-Dichlorobenzene	< 50.0	Naphthalene	< 50.0	S
1,3-Dichloropropane	< 50.0	n-Butylbenzene	< 50.0	
1,4-Dichlorobenzene	< 50.0	n-Propylbenzene	< 50.0	
2,2-Dichloropropane	< 50.0	o-Xylene	< 50.0	
2-Chlorotoluene	< 50.0	sec-Butylbenzene	< 50.0	
4-Chlorotoluene	< 50.0	Styrene	< 50.0	
4-Isopropyltoluene	< 50.0	tert-Butylbenzene	< 50.0	
Benzene	< 50.0	Tetrachloroethene	1630	X
Bromobenzene	< 50.0	Toluene	< 50.0	
Bromochloromethane	< 50.0	trans-1,2-Dichloroethene	< 50.0	
Bromodichloromethane	< 50.0	trans-1,3-Dichloropropene	< 50.0	
Bromoform	< 50.0	Trichloroethene	229	X
Bromomethane	< 50.0	Trichlorofluoromethane	< 50.0	
Carbon tetrachloride	< 50.0	Vinyl Chloride	50.0	X

EPA Method 524.2

ELAP No.: 10709

Comments: S denotes where the LCS recovered outside accepted QC limits.
X denotes where a value exceeds the Maximum Contaminant Level.

Approved By: _____

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 585-647-2530 FAX 585-647-3311

LABORATORY REPORT PURGEABLE ORGANIC COMPOUNDS

Client: Conrad Geoscience
Client Job Site: Apple Valley Shopping Center LaGrangeville
Client Job No.: 160537
Field Location: MW-7

Lab Project No.: 11-3957
Lab Sample No.: 13669
Sample Type: Water
Date Sampled: 09/16/11
Date Received: 09/19/11
Date Analyzed: 09/23/11

Purgeable Organic Compounds	Results (ug/L)	Purgeable Organic Compounds	Results (ug/L)	
1,1,1,2-Tetrachloroethane	< 0.5	Chlorobenzene	< 0.5	
1,1,1-Trichloroethane	< 0.5	Chloroethane	< 1.0	
1,1,2,2-Tetrachloroethane	< 0.5	Chloroform	< 0.5	
1,1,2-Trichloroethane	< 0.5	Chloromethane	< 0.5	
1,1-Dichloroethane	< 0.5	cis-1,2-Dichloroethene	0.9	
1,1-Dichloroethene	< 0.5	cis-1,3-Dichloropropene	< 0.5	
1,1-Dichloropropene	< 0.5	Dibromochloromethane	< 0.5	
1,2,3-Trichlorobenzene	< 0.5	Dibromomethane	< 0.5	
1,2,3-Trichloropropane	< 0.5	Dichlorodifluoromethane	< 0.5	
1,2,4-Trichlorobenzene	< 0.5	Ethylbenzene	< 0.5	
1,2,4-Trimethylbenzene	< 0.5	Hexachlorobutadiene	< 0.5	
1,2-Dichlorobenzene	< 0.5	Isopropylbenzene	< 0.5	
1,2-Dichloroethane	< 0.5	m,p-Xylene	< 0.5	
1,2-Dichloropropane	< 0.5	Methyl-t-Butyl Ether	< 2.0	S
1,3,5-Trimethylbenzene	< 0.5	Methylene chloride	< 0.5	
1,3-Dichlorobenzene	< 0.5	Naphthalene	< 0.5	S
1,3-Dichloropropane	< 0.5	n-Butylbenzene	< 0.5	
1,4-Dichlorobenzene	< 0.5	n-Propylbenzene	< 0.5	
2,2-Dichloropropane	< 0.5	o-Xylene	< 0.5	
2-Chlorotoluene	< 0.5	sec-Butylbenzene	< 0.5	
4-Chlorotoluene	< 0.5	Styrene	< 0.5	
4-Isopropyltoluene	< 0.5	tert-Butylbenzene	< 0.5	
Benzene	< 0.5	Tetrachloroethene	8.6	X
Bromobenzene	< 0.5	Toluene	< 0.5	
Bromochloromethane	< 0.5	trans-1,2-Dichloroethene	< 0.5	
Bromodichloromethane	< 0.5	trans-1,3-Dichloropropene	< 0.5	
Bromoform	< 0.5	Trichloroethene	1.2	
Bromomethane	< 0.5	Trichlorofluoromethane	< 0.5	
Carbon tetrachloride	< 0.5	Vinyl Chloride	< 0.5	

EPA Method 524.2 ELAP No.: 10709

Comments: S denotes where the LCS recovered outside accepted QC limits.
X denotes where a value exceeds the Maximum Contaminant Level.

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt

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ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 585-647-2530 FAX 585-647-3311

LABORATORY REPORT PURGEABLE ORGANIC COMPOUNDS

Client: Conrad Geoscience
Client Job Site: Apple Valley Shopping Center LaGrangeville
Client Job No.: 160537
Field Location: AVS-EFF

Lab Project No.: 11-3957
Lab Sample No.: 13670
Sample Type: Water
Date Sampled: 09/16/11
Date Received: 09/19/11
Date Analyzed: 09/23/11

Purgeable Organic Compounds	Results (ug/L)	Purgeable Organic Compounds	Results (ug/L)	
1,1,1,2-Tetrachloroethane	< 0.5	Chlorobenzene	< 0.5	
1,1,1-Trichloroethane	< 0.5	Chloroethane	< 1.0	
1,1,2,2-Tetrachloroethane	< 0.5	Chloroform	< 0.5	
1,1,2-Trichloroethane	< 0.5	Chloromethane	< 0.5	
1,1-Dichloroethane	< 0.5	cis-1,2-Dichloroethene	< 0.5	
1,1-Dichloroethene	< 0.5	cis-1,3-Dichloropropene	< 0.5	
1,1-Dichloropropene	< 0.5	Dibromochloromethane	< 0.5	
1,2,3-Trichlorobenzene	< 0.5	Dibromomethane	< 0.5	
1,2,3-Trichloropropane	< 0.5	Dichlorodifluoromethane	< 0.5	
1,2,4-Trichlorobenzene	< 0.5	Ethylbenzene	< 0.5	
1,2,4-Trimethylbenzene	< 0.5	Hexachlorobutadiene	< 0.5	
1,2-Dichlorobenzene	< 0.5	Isopropylbenzene	< 0.5	
1,2-Dichloroethane	< 0.5	m,p-Xylene	< 0.5	
1,2-Dichloropropane	< 0.5	Methyl-t-Butyl Ether	< 2.0	S
1,3,5-Trimethylbenzene	< 0.5	Methylene chloride	< 0.5	
1,3-Dichlorobenzene	< 0.5	Naphthalene	< 0.5	S
1,3-Dichloropropane	< 0.5	n-Butylbenzene	< 0.5	
1,4-Dichlorobenzene	< 0.5	n-Propylbenzene	< 0.5	
2,2-Dichloropropane	< 0.5	o-Xylene	< 0.5	
2-Chlorotoluene	< 0.5	sec-Butylbenzene	< 0.5	
4-Chlorotoluene	< 0.5	Styrene	< 0.5	
4-Isopropyltoluene	< 0.5	tert-Butylbenzene	< 0.5	
Benzene	< 0.5	Tetrachloroethene	< 0.5	
Bromobenzene	< 0.5	Toluene	< 0.5	
Bromochloromethane	< 0.5	trans-1,2-Dichloroethene	< 0.5	
Bromodichloromethane	< 0.5	trans-1,3-Dichloropropene	< 0.5	
Bromoform	< 0.5	Trichloroethene	< 0.5	
Bromomethane	< 0.5	Trichlorofluoromethane	< 0.5	
Carbon tetrachloride	< 0.5	Vinyl Chloride	< 0.5	

EPA Method 524.2 ELAP No.: 10709

Comments: S denotes where the LCS recovered outside accepted QC limits.

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt

File ID: Conrad 11-3957

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 585-647-2530 FAX 585-647-3311

LABORATORY REPORT PURGEABLE ORGANIC COMPOUNDS

Client: Conrad Geoscience
Client Job Site: Apple Valley Shopping Center LaGrangeville
Client Job No.: 160537
Field Location: AV-2

Lab Project No.: 11-3957
Lab Sample No.: 13671
Sample Type: Water
Date Sampled: 09/16/11
Date Received: 09/19/11
Date Analyzed: 09/23/11

Purgeable Organic Compounds	Results (ug/L)	Purgeable Organic Compounds	Results (ug/L)	
1,1,1,2-Tetrachloroethane	< 0.5	Chlorobenzene	< 0.5	
1,1,1-Trichloroethane	< 0.5	Chloroethane	< 1.0	
1,1,2,2-Tetrachloroethane	< 0.5	Chloroform	< 0.5	
1,1,2-Trichloroethane	< 0.5	Chloromethane	< 0.5	
1,1-Dichloroethane	< 0.5	cis-1,2-Dichloroethene	2.4	
1,1-Dichloroethene	< 0.5	cis-1,3-Dichloropropene	< 0.5	
1,1-Dichloropropene	< 0.5	Dibromochloromethane	< 0.5	
1,2,3-Trichlorobenzene	< 0.5	Dibromomethane	< 0.5	
1,2,3-Trichloropropane	< 0.5	Dichlorodifluoromethane	< 0.5	
1,2,4-Trichlorobenzene	< 0.5	Ethylbenzene	< 0.5	
1,2,4-Trimethylbenzene	< 0.5	Hexachlorobutadiene	< 0.5	
1,2-Dichlorobenzene	< 0.5	Isopropylbenzene	< 0.5	
1,2-Dichloroethane	< 0.5	m,p-Xylene	< 0.5	
1,2-Dichloropropane	< 0.5	Methyl-t-Butyl Ether	< 2.0	S
1,3,5-Trimethylbenzene	< 0.5	Methylene chloride	< 0.5	
1,3-Dichlorobenzene	< 0.5	Naphthalene	< 0.5	S
1,3-Dichloropropane	< 0.5	n-Butylbenzene	< 0.5	
1,4-Dichlorobenzene	< 0.5	n-Propylbenzene	< 0.5	
2,2-Dichloropropane	< 0.5	o-Xylene	< 0.5	
2-Chlorotoluene	< 0.5	sec-Butylbenzene	< 0.5	
4-Chlorotoluene	< 0.5	Styrene	< 0.5	
4-Isopropyltoluene	< 0.5	tert-Butylbenzene	< 0.5	
Benzene	< 0.5	Tetrachloroethene	12.6	
Bromobenzene	< 0.5	Toluene	< 0.5	
Bromochloromethane	< 0.5	trans-1,2-Dichloroethene	< 0.5	
Bromodichloromethane	< 0.5	trans-1,3-Dichloropropene	< 0.5	
Bromoform	< 0.5	Trichloroethene	2.0	
Bromomethane	< 0.5	Trichlorofluoromethane	< 0.5	
Carbon tetrachloride	< 0.5	Vinyl Chloride	< 0.5	

EPA Method 524.2 ELAP No.: 10709

Comments: S denotes where the LCS recovered outside accepted QC limits.
X denotes where a value exceeds the Maximum Contaminant Level.

Approved By: _____
Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 585-647-2530 FAX 585-647-3311

LABORATORY REPORT PURGEABLE ORGANIC COMPOUNDS

Client: Conrad Geoscience
Client Job Site: Apple Valley Shopping Center LaGrangeville
Client Job No.: 160537
Field Location: RW-1

Lab Project No.: 11-3957
Lab Sample No.: 13672
Sample Type: Water
Date Sampled: 09/16/11
Date Received: 09/19/11
Date Analyzed: 09/23/11

Purgeable Organic Compounds	Results (ug/L)	Purgeable Organic Compounds	Results (ug/L)	
1,1,1,2-Tetrachloroethane	< 5.0	Chlorobenzene	< 5.0	
1,1,1-Trichloroethane	< 5.0	Chloroethane	< 10	
1,1,2,2-Tetrachloroethane	< 5.0	Chloroform	< 5.0	
1,1,2-Trichloroethane	< 5.0	Chloromethane	< 5.0	
1,1-Dichloroethane	< 5.0	cis-1,2-Dichloroethene	5.5	X
1,1-Dichloroethene	< 5.0	cis-1,3-Dichloropropene	< 5.0	
1,1-Dichloropropene	< 5.0	Dibromochloromethane	< 5.0	
1,2,3-Trichlorobenzene	< 5.0	Dibromomethane	< 5.0	
1,2,3-Trichloropropane	< 5.0	Dichlorodifluoromethane	< 5.0	
1,2,4-Trichlorobenzene	< 5.0	Ethylbenzene	< 5.0	
1,2,4-Trimethylbenzene	< 5.0	Hexachlorobutadiene	< 5.0	
1,2-Dichlorobenzene	< 5.0	Isopropylbenzene	< 5.0	
1,2-Dichloroethane	< 5.0	m,p-Xylene	< 5.0	
1,2-Dichloropropane	< 5.0	Methyl-t-Butyl Ether	< 20	S
1,3,5-Trimethylbenzene	< 5.0	Methylene chloride	21.1	BX
1,3-Dichlorobenzene	< 5.0	Naphthalene	< 5.0	S
1,3-Dichloropropane	< 5.0	n-Butylbenzene	< 5.0	
1,4-Dichlorobenzene	< 5.0	n-Propylbenzene	< 5.0	
2,2-Dichloropropane	< 5.0	o-Xylene	< 5.0	
2-Chlorotoluene	< 5.0	sec-Butylbenzene	< 5.0	
4-Chlorotoluene	< 5.0	Styrene	< 5.0	
4-Isopropyltoluene	< 5.0	tert-Butylbenzene	< 5.0	
Benzene	< 5.0	Tetrachloroethene	131	X
Bromobenzene	< 5.0	Toluene	< 5.0	
Bromochloromethane	< 5.0	trans-1,2-Dichloroethene	< 5.0	
Bromodichloromethane	< 5.0	trans-1,3-Dichloropropene	< 5.0	
Bromoform	< 5.0	Trichloroethene	9.0	
Bromomethane	< 5.0	Trichlorofluoromethane	< 5.0	
Carbon tetrachloride	< 5.0	Vinyl Chloride	< 5.0	

EPA Method 524.2 ELAP No.: 10709

Comments: S denotes where the LCS recovered outside accepted QC limits.
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Approved By: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 585-647-2530 FAX 585-647-3311

LABORATORY REPORT PURGEABLE ORGANIC COMPOUNDS

Client: Conrad Geoscience
Client Job Site: Apple Valley Shopping Center LaGrangeville
Client Job No.: 160537
Field Location: RW-2

Lab Project No.: 11-3957
Lab Sample No.: 13673
Sample Type: Water
Date Sampled: 09/16/11
Date Received: 09/19/11
Date Analyzed: 09/23/11

Purgeable Organic Compounds	Results (ug/L)	Purgeable Organic Compounds	Results (ug/L)	
1,1,1,2-Tetrachloroethane	< 100	Chlorobenzene	< 100	
1,1,1-Trichloroethane	< 100	Chloroethane	< 200	
1,1,2,2-Tetrachloroethane	< 100	Chloroform	< 100	
1,1,2-Trichloroethane	< 100	Chloromethane	< 100	
1,1-Dichloroethane	< 100	cis-1,2-Dichloroethene	< 100	
1,1-Dichloroethene	< 100	cis-1,3-Dichloropropene	< 100	
1,1-Dichloropropene	< 100	Dibromochloromethane	< 100	
1,2,3-Trichlorobenzene	< 100	Dibromomethane	< 100	
1,2,3-Trichloropropane	< 100	Dichlorodifluoromethane	< 100	
1,2,4-Trichlorobenzene	< 100	Ethylbenzene	< 100	
1,2,4-Trimethylbenzene	< 100	Hexachlorobutadiene	< 100	
1,2-Dichlorobenzene	< 100	Isopropylbenzene	< 100	
1,2-Dichloroethane	< 100	m,p-Xylene	< 100	
1,2-Dichloropropane	< 100	Methyl-t-Butyl Ether	< 400	S
1,3,5-Trimethylbenzene	< 100	Methylene chloride	534	BX
1,3-Dichlorobenzene	< 100	Naphthalene	< 100	S
1,3-Dichloropropane	< 100	n-Butylbenzene	< 100	
1,4-Dichlorobenzene	< 100	n-Propylbenzene	< 100	
2,2-Dichloropropane	< 100	o-Xylene	< 100	
2-Chlorotoluene	< 100	sec-Butylbenzene	< 100	
4-Chlorotoluene	< 100	Styrene	< 100	
4-Isopropyltoluene	< 100	tert-Butylbenzene	< 100	
Benzene	< 100	Tetrachloroethene	2060	X
Bromobenzene	< 100	Toluene	< 100	
Bromochloromethane	< 100	trans-1,2-Dichloroethene	< 100	
Bromodichloromethane	< 100	trans-1,3-Dichloropropene	< 100	
Bromoform	< 100	Trichloroethene	< 100	
Bromomethane	< 100	Trichlorofluoromethane	< 100	
Carbon tetrachloride	< 100	Vinyl Chloride	< 100	

EPA Method 524.2 ELAP No.: 10709

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Approved By: _____
Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 585-647-2530 FAX 585-647-3311

LABORATORY REPORT PURGEABLE ORGANIC COMPOUNDS

Client: Conrad Geoscience
Client Job Site: Apple Valley Shopping Center LaGrangeville
Client Job No.: 160537
Field Location: RW-3

Lab Project No.: 11-3957
Lab Sample No.: 13673
Sample Type: Water
Date Sampled: 09/16/11
Date Received: 09/19/11
Date Analyzed: 09/23/11

Purgeable Organic Compounds	Results (ug/L)	Purgeable Organic Compounds	Results (ug/L)	
1,1,1,2-Tetrachloroethane	< 10	Chlorobenzene	< 10	
1,1,1-Trichloroethane	< 10	Chloroethane	< 20	
1,1,2,2-Tetrachloroethane	< 10	Chloroform	< 10	
1,1,2-Trichloroethane	< 10	Chloromethane	< 10	
1,1-Dichloroethane	< 10	cis-1,2-Dichloroethene	51.0	X
1,1-Dichloroethene	< 10	cis-1,3-Dichloropropene	< 10	
1,1-Dichloropropene	< 10	Dibromochloromethane	< 10	
1,2,3-Trichlorobenzene	< 10	Dibromomethane	< 10	
1,2,3-Trichloropropane	< 10	Dichlorodifluoromethane	< 10	
1,2,4-Trichlorobenzene	< 10	Ethylbenzene	< 10	
1,2,4-Trimethylbenzene	< 10	Hexachlorobutadiene	< 10	
1,2-Dichlorobenzene	< 10	Isopropylbenzene	< 10	
1,2-Dichloroethane	< 10	m,p-Xylene	< 10	
1,2-Dichloropropane	< 10	Methyl-t-Butyl Ether	< 40	S
1,3,5-Trimethylbenzene	< 10	Methylene chloride	51.4	BX
1,3-Dichlorobenzene	< 10	Naphthalene	< 10	S
1,3-Dichloropropane	< 10	n-Butylbenzene	< 10	
1,4-Dichlorobenzene	< 10	n-Propylbenzene	< 10	
2,2-Dichloropropane	< 10	o-Xylene	< 10	
2-Chlorotoluene	< 10	sec-Butylbenzene	< 10	
4-Chlorotoluene	< 10	Styrene	< 10	
4-Isopropyltoluene	< 10	tert-Butylbenzene	< 10	
Benzene	< 10	Tetrachloroethene	360	X
Bromobenzene	< 10	Toluene	< 10	
Bromochloromethane	< 10	trans-1,2-Dichloroethene	< 10	
Bromodichloromethane	< 10	trans-1,3-Dichloropropene	< 10	
Bromoform	< 10	Trichloroethene	38.2	X
Bromomethane	< 10	Trichlorofluoromethane	< 10	
Carbon tetrachloride	< 10	Vinyl Chloride	< 10	

EPA Method 524.2 ELAP No.: 10709

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Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

Client: Conrad Geoscience (EAH 9/19)

CHAIN OF CUSTODY

REPORT TO		INVOICE TO		
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #: 113957 / CLIENT PROJECT #: 160537
ADDRESS:	179 Lake Avenue	ADDRESS:		
CITY:	Rochester STATE: NY ZIP: 14608	CITY:	STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS) 10 - Day
PHONE:	585-647-2530 FAX: -3311	PHONE:	FAX:	STD / OTHER: 1 2 3 5 **10**
ATTN:	Jane Daloia	ATTN:		
COMMENTS:	Please return cooler; results to slarose@conradgeo.com			Quotation # JD116705

PROJECT NAME/SITE NAME: Apple Valley Shopping Center - LaGrangeville

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	524.2	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	9/16/11	1005		X	MW-2	GW	3	X		13668
2		1125			MW-7					13669
3		930			AVS-EFF					13670
4		935			AV-2					13671
5		942			RW-1					13672
6		946			RW-2					13673
7	↓	950		↓	RW-3	↓	↓	↓		13674
8									All samples sent directly to sub lab by client. EAH 9/19	
9										
10										

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments:		

Sampled By — Date/Time: 9-16-11/1125

Relinquished By — Date/Time: ~~9-16-11~~ 9-19-11/1200

Total Cost:

Received By — Date/Time:

Received @ Lab By: Elizabeth A Honcu — Date/Time: 9/19/11 1205

P.I.F.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #: 160537
ADDRESS:	179 Lake Avenue	ADDRESS:			
CITY:	Rochester STATE: NY ZIP: 14608	CITY:	STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE:	585-647-2530 FAX: -3311	PHONE:	FAX:	10 - Day	
ATTN:	Jane Daloia	ATTN:		STD: ☐1 ☐2 ☐3 ☐5 OTHER: 10	
COMMENTS:	Please return cooler; results to slarose@conradgeo.com			Quotation # JD116705	

PROJECT NAME/SITE NAME: Apple Valley Shopping Center - LaGrangeville

REQUESTED ANALYSIS: 524.2

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	9/16/11	1005		X	MW-2	GW	3		001
2		1125			MW-7				002
3		930			AVS-EFF				003
4		935			AV-2				004
5		942			RW-1				005
6		946			RW-2				006
7	↓	950		↓	RW-3	↓	↓		007
8									
9									
10									

"LAB USE ONLY BELOW THIS LINE"

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments: 1.3° C		

Sampled By: [signature] Date/Time: 9-16-11/1125 (SC)

Total Cost:

Relinquished By: [signature] Date/Time: ~~9-16-11~~ 9-19-11/1200

Received By: Date/Time: P.I.F.

Received @ Lab By: [signature] Date/Time: 9/20/11 10:11 AM