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Civil Engineering • Energy • Environmental • Land Development • Landscape Architecture • Municipal • Structure Design • Survey

April 25, 2018

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

Re: **1st Quarter 2018 Groundwater Monitoring Report; Apple Valley Shopping Center Superfund Site, LaGrange, New York**
Index No. II-CERCLA-10224
NYSEC Site #3-14-084
PVE File #560537

RECEIVED
MAY 01 2018
Remedial Bureau C

Dear Mr. Mizerak:

On April 4, 2018, PVE, LLC (PVE) continued groundwater monitoring activities at the Apple Valley Shopping Center (Figure 1) in accordance with the NYSDEC-approved Interim Remedial Measure (IRM) work plan dated July 2, 2004.

QUARTERLY GROUNDWATER MONITORING

As discussed with NYSDEC, PVE was responsible for sampling the air stripper effluent and residential supply well for the 1st Quarter of 2018. Supply wells will be sampled once annually; proposed for the second quarter of 2018.

Recovery Well Sampling

On April 4, 2018 PVE collected the remediation system effluent sample (AVS-EFF). The air stripper effluent sample was collected from the treated-water 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.

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 (Figure 3) on a semi-annual basis, assuming access is granted. All but Lot 6 have subsequently been removed from the monitoring program through approved amendments. Despite availability of public water, Lot 6 has not connected to the municipal water supply system.

PVE contacted the owner of this remaining sampling location and coordinated access. Samples were collected from the supply well at Lot 6 on April 4, 2018.

Supply well sample was collected via in-line spigots prior to water softening. Water was allowed to run at a tap for at least ten minutes prior to sampling. The sample was collected from a spigot at the pressure tank, prior to the water softener (no GAC filtration system is present). Samples were labeled, packed on ice, and shipped via courier for analysis of VOCs using USEPA Method 524.2.

Pennsylvania

Waterfront Corporate Park III
Suite 101
2000 Georgetowne Drive
Sewickley, PA 15143
724.444.1100

NYC

108 West 39th Street
Suite 500
New York, NY 10018
646.602.4999

West Virginia

1700 MacCorkle Avenue, S.E.
Charleston, WV 25314
304.340.4821

Ohio

1156 E. State Street
Salem, OH 44460
330.332.5200

Texas

10550 Richmond Avenue
Suite 160
Houston, TX 77042
713.375.1400 ext. 456



RESULTS

Recovery Wells

Results for COCs including, tetrachloroethene (PCE); trichloroethene (TCE); cis-1,2-dichloroethene (cis-DCE); and vinyl chloride, are summarized in Table 1. Analytical reports are attached.

Total Contaminant of Concern (COC) concentrations in the AVS-EFF sample was 1.3 µg/l. Influent COC concentrations were not sampled during the effluent sampling, so removal efficiency cannot be calculated.

Residential Supply Wells

Total COC concentrations for the April 4, 2018 untreated sample at Lot 6 was 0.84 µg/l. Results for COCs are summarized in Table 2. Analytical reports are attached.

DISCUSSION

The data also indicates the total COC concentrations being discharged from the air stripper as 1.3 µg/l and below applicable standards.

Despite availability of public water, Lot 6 has not connected to the municipal water supply system. COC concentrations in the residential supply well 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.

The next round of quarterly groundwater monitoring is scheduled for June 2018. If you have any questions, please do not hesitate to contact me.

Sincerely,

PVE, LLC

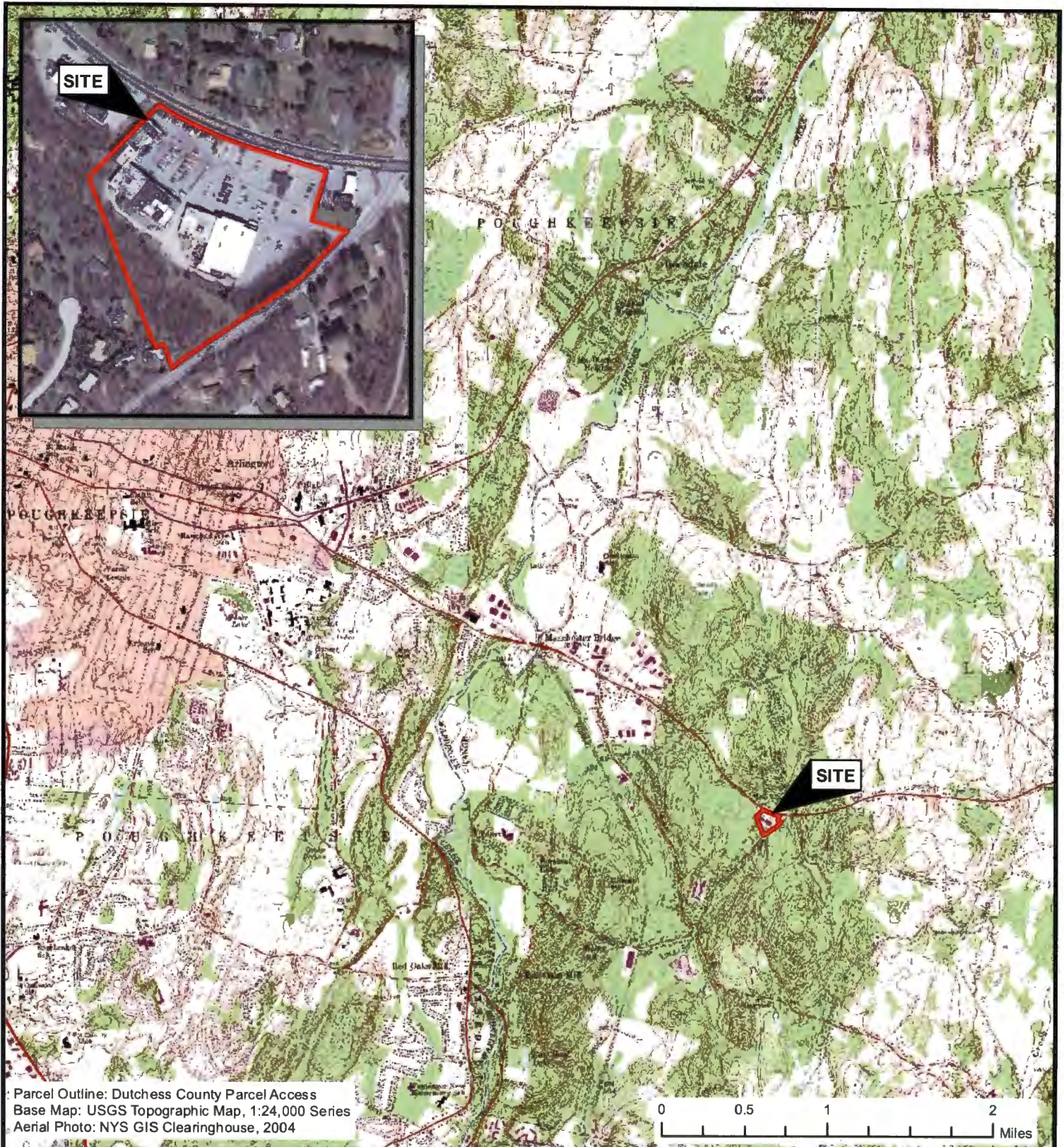
Christopher B. Brown, P.G.
Principal/Director of Environmental Services

CBB/BRW

cc:

James A. Klein, Apple Valley
David Engel, Esq.
Mark Millspaugh, Sterling Environmental
Maureen Schuck, NYSDOH (electronic only)
Dawn Hettrick, NYSDOH
Krista Anders, NYSDOH
Omorogbe, Amen, NYSDEC (electronic only)
D. MacDougal
Gezahegne Bushra, EPA

FIGURES



SITE LOCATION MAP

APPLE VALLEY SHOPPING CENTER
 FREEDOM PLAINS ROAD
 TOWN OF LAGRANGE, DUTCHESS COUNTY, NEW YORK



48 Springside Avenue
 Poughkeepsie, New York 12603
 Phone: (845) 454-2544
 Fax: (845) 454-2655

FIGURE 1



DATE:	01/17/2012
SCALE:	As Indicated
PROJECT NUMBER:	160537

ALL LOCATIONS APPROXIMATE





TABLES

Table 1. **Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;**
USEPA Method 524.2; collected January 2006 through April 2018;
Apple Valley Shopping Center, LaGrange, New York;
PVE File #560537

Sample ID	Dates Sampled	Tetrachloroethene (5 µg/l ¹)	Trichloroethene (5 µg/l ¹)	Chemical Constituent cis-1,2-Dichloroethene (5 µg/l ¹)	Vinyl Chloride (2 µg/l ¹)	Total COC
RW-1	2/9/2006	2,850	119	53.6	ND < 10	3,022.60
RW-1	3/9/2006	412	19.9	13.6	ND < 1.0	445.5
RW-1	5/16/2006	394	21	19	ND < 1.0	434
RW-1	8/22/2006	583	6.4	8.6 M	ND < 2.5	598
RW-1	11/28/2006	265	7.7	10	ND < 1.0	282.7
RW-1	12/11/2006	217	6.9	9.4	ND < 2.5	233.3
RW-1	3/1/2007	591	7.4	5.4	ND < 2.5	603.8
RW-1	5/29/2007	298	8.4	ND < 1.0	ND < 1.0	306.4
RW-1	8/28/2007	763	9.1	5.2	ND < 5.0	777.3
RW-1	11/28/2007	606	7.8	7.4	ND < 2.5	621.2
RW-1	2/28/2008	1,400	14	18.4	ND < 10	1,432.40
RW-1	5/27/2008	1,170	45	102	ND<10	1,317
RW-1	9/9/2008	925	20.9	18.5	ND<5.0	964.4
RW-1	11/25/2008	3,090	ND<50.0	ND<50.0	ND<50.0	3,090
RW-1	3/5/2009	500	15.2	ND<10	ND<10 S	515.2
RW-1	5/27/2009	412	17.8	ND<10	ND<10	429.8
RW-1	8/25/2009	134	10	5.2	ND<5.0	149.2
RW-1	12/8/2009	264	11.4	ND<5	ND<5	275.4
RW-1	2/17/2010	271	7.1	3.2	ND<0.5	281.3
RW-1	5/27/2010	93.7	5.7	ND<5	ND<5 M	99.4
RW-1	8/25/2010	310	26.5	27.4	ND<5.0	363.9
RW-1	11/23/2010	15.5	0.6	ND<0.5	ND<0.5	16.1
RW-1	2/28/2011	260	ND<10	ND<10	ND<10 S	260
RW-1	6/1/2011	203	12.8	ND<10	ND<10	215.8
RW-1	9/16/2011	131	9	5.5	ND<5.0	145.5
RW-1	12/5/2011	87	8.8	5.2	ND<2.5	101
RW-1	3/29/2012	303	17.2	7.8 S	ND<5.0 S	328
RW-1	6/26/2012	92.6	10	ND<5	ND<5.0	102.6
RW-1	8/30/2012	87.4	5.5	ND<5.0	ND<5.0	92.9
RW-1	12/20/2012	155	6.5	ND<2.5	ND<2.5	161.5
RW-1	3/13/2013	220	7.5	3.7	ND<0.5	231.2
RW-1	5/28/2013	260	8.5	3.9	ND<0.5	272.4
RW-1	8/28/2013	100	E 8.9	4.1	ND<0.5	113
RW-1	11/19/2013	140	D 5.6	ND<0.50	ND<0.50	145.6
RW-1	3/20/2014	110	D 5.9	2.5	ND<0.50	118.4
RW-1	5/23/2014	120	D 7.5	3.3	ND<0.5	130.8
RW-1	9/10/2014	150	E 7	3	ND<0.5	160
RW-1	5/18/2015	170	D 6	8	ND<0.5	184
RW-1	11/24/2015	1,200	15	8	ND<0.5	1223
RW-1	12/2/2016	2,100	D 32	19	ND<0.5	2,151
RW-1	2/22/2017	250	D 6.2	g 3.7	ND<0.5	259.9
RW-2	2/9/2006	7,860	132	148	ND < 25	8,140
RW-2	3/9/2006	2,960	24.8	20.8	ND < 10	3,005.60
RW-2	5/16/2006	1,800	12.2	20.1	ND < 5.0	1,832.30
RW-2	8/22/2006	14,100	76	177 M	ND < 50.0	14,353
RW-2	11/28/2006	3,340	ND < 25.0	25.5	ND < 25.0	3,365.50
RW-2	12/11/2006	1,190	10.9	22.1	ND < 5.0	1,223
RW-2	3/1/2007	5,100	ND < 50.0	ND < 50.0	ND < 50.0	5,100
RW-2	5/29/2007	1,080	16.6	ND < 10.0	ND < 10.0	1,096.60
RW-2	8/28/2007	325	4.1	3.6	ND < 2.5	332.7

Table 1. Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;
USEPA Method 524.2; collected January 2006 through April 2018;
Apple Valley Shopping Center, LaGrange, New York;
PVE File #560537

Sample ID	Dates Sampled	Chemical Constituent						Total COC
		Tetrachloroethene (5 µg/l ¹)	Trichloroethene (5 µg/l ¹)	cis-1,2-Dichloroethene (5 µg/l ¹)	Vinyl Chloride (2 µg/l ¹)			
RW-2	11/28/2007	1,770	ND < 10.0	ND < 10.0	ND < 10.0			1,770
RW-2	2/28/2008	4,700	30.5	46	ND < 25			4,776.50
RW-2	5/27/2008	2,510	187	114	ND<25.0			2,811
RW-2	9/9/2008	4,040	52.5	68	ND<25.0			4,160.50
RW-2	11/25/2008	4,790	ND < 100.0	ND < 100.0	ND < 100.0			4,790
RW-2	3/5/2009	4,800	ND<100	ND<100	ND<100 S			4,800
RW-2	5/27/2009	5,090	ND<100	ND<100	ND<100			5,090
RW-2	8/25/2009	2,610	ND<100	ND<100	ND<100 S			2,610
RW-2	12/8/2009	861	ND<25	ND<25	ND<25			861
RW-2	2/17/2010	1,070	ND<50	ND<50	ND<50			1,070
RW-2	5/27/2010	1,000	ND<50	ND<50	ND<50			1,000
RW-2	8/25/2010	421	ND<10	ND<10	ND<10			421
RW-2	11/23/2010	2,210	ND<100	ND<100	ND<100			2,210
RW-2	2/28/2011	3,050	ND<100	ND<100	ND<100 S			3,050
RW-2	6/1/2011	4,400	ND<100	ND<100	ND<100			4,400
RW-2	9/16/2011	2,060	ND<100	ND<100	ND<100			2,060
RW-2	12/5/2011	2,200	ND<50	ND<50	ND<50			2,200
RW-2	3/29/2012	428	ND<25	ND<25 S	ND<25			428
RW-2	6/26/2012	1,180	ND<25	ND<25	ND<25			1,180
RW-2	8/30/2012	389	10.8	ND<10	ND<10			399.8
RW-2	12/20/2012	597	12.7	ND<5.0	ND<5.0			610
RW-2	3/13/2013	1,500	22	21	ND<5.0			1,543
RW-2	5/28/2013	2,700	35	31	ND<0.50			2,766
RW-2	8/28/2013	260	E	6.5	3.5	ND<0.50		270
RW-2	11/19/2013	1,300	D	150	D	58	E	1,509
RW-2	3/20/2014	2,200	D	21		14	ND<5.0	2,235
RW-2	5/23/2014	4,700	D	35		29	ND<5	4,764
RW-2	9/10/2014	1,900	E	45		38	1	1,983
RW-2	5/18/2015	1,700	E	19		13	ND<5	1,732
RW-2	12/2/2016	4,100	D	120	D	150	D	4374.30
RW-2	2/22/2017	3,300	D	43	D	34	g	3377.00
RW-3	2/9/2006	1,250	102	88.8	ND < 5.0			1,440.80
RW-3	3/9/2006	567	67.3	72.8	3.9			711
RW-3	5/16/2006	538	53.8	99.4	ND < 2.5			691.2
RW-3	8/22/2006	151	19.6	34.1 M	ND < 2.5			204.7
RW-3	11/28/2006	451	49.5	103	4			607.5
RW-3	12/11/2006	467	66.4	147	5.7			686.1
RW-3	3/1/2007	494	59	75.3	ND < 2.5			628.3
RW-3	5/29/2007	550	54.3	93.8	5.2			703.3
RW-3	8/28/2007	657	69.7	121	4.4			852.1
RW-3	11/28/2007	541	57	103	ND < 5.0 S			701
RW-3	2/28/2008	618	53	99.7	ND < 5.0			770.7
RW-3	5/27/2008	543	55.2	89.8	ND<10			688
RW-3	9/9/2008	480	54.2	85.2	ND<5.0			619.4
RW-3	11/25/2008	876	82.2	120	ND<10			1,078.20
RW-3	3/5/2009	347	38.8	49.4	ND<10 S			435.2
RW-3	5/27/2009	351	40.6	42.2	ND<10			433.8
RW-3	8/25/2009	423	53.4	75.4	ND<10			551.8
RW-3	12/8/2009	763	83.8	78.2	ND<10			925
RW-3	2/17/2010	1,770	172	182	ND<50			2,124

Table 1. Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;
USEPA Method 524.2; collected January 2006 through April 2018;
Apple Valley Shopping Center, LaGrange, New York;
PVE File #560537

Sample ID	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		
RW-3	5/27/2010	521	57	87.5		ND<25 M	665.5		
RW-3	8/25/2010	180	18.6	30.9		ND<5.0	229.5		
RW-3	11/23/2010	368	46.4	36.6		ND<10	451		
RW-3	2/28/2011	438	51	40		ND<10 S	529		
RW-3	6/1/2011	840	82.5	77		ND<25.0	999.5		
RW-3	9/16/2011	360	38.2	51		ND<10	449.2		
RW-3	12/5/2011	400	48	63		ND<5.0	511		
RW-3	3/29/2012	384	46	40.6		ND<10 S	470.6		
RW-3	6/26/2012	241	28	26.8		ND<10	295.8		
RW-3	8/30/2012	354	40	39.4		ND<10	433.4		
RW-3	12/20/2012	238	29.6	46.4		ND<5.0	314		
RW-3	3/13/2013	360	35	42		0.71	437		
RW-3	5/28/2013	170	22	22		ND<0.50	214		
RW-3	8/28/2013	600	E	60	E	68	E	2.4	730.4
RW-3	11/19/2013	290	D	43	D	45	E	1.2	379.2
RW-3	3/20/2014	310	D	26	D	26	D	ND<0.50	362
RW-3	5/23/2014	370	D	38	D	44	D	0.6	452.6
RW-3	9/10/2014	690	E	62		60		1	813
RW-3	5/18/2015	810	D	53		54		0.7	917.7
RW-3	12/2/2016	330	D	32		32		0.54	394.54
RW-3	2/22/2017	330	D	33	g	34	g	ND<0.50	397
AV-2	2/9/2006	3,560	380	979		ND < 10			4,919
AV-2	3/9/2006	90.7	11	19.5		ND < 0.5			121.2
AV-2	5/16/2006	913	13.2	18		ND < 2.5			944.2
AV-2	8/22/2006	28.4	3.4	9.9 M		ND < 0.5			41.7
AV-2	11/28/2006	24.7	3.5	6.6		ND < 0.5			34.8
AV-2	12/11/2006	28.5	4	9.2		ND < 0.5			41.7
AV-2	3/1/2007	25.4	4	5.2		ND < 0.5			34.6
AV-2	5/29/2007	26	3.8	6.1		ND < 0.5			35.9
AV-2	8/28/2007	24.4	ND < 0.5	6.5		ND < 0.5			30.9
AV-2	11/28/2007	13.2	2.1	3.6		ND < 0.5 S			18.9
AV-2	2/28/2008	126	10.7	26.2		ND < 0.5			162.9
AV-2	5/27/2008	98.5	10.4	24.3		ND<0.5			133.2
AV-2	9/9/2008	10	1.8	3.3		ND<0.5			15.1
AV-2	11/25/2008	20.9	3.3	4.6		ND<0.5			28.8
AV-2	3/5/2009	180	17.5	31.4		ND<0.5			228.9
AV-2	5/27/2009	146	19.5	22.5		ND<5.0			188
AV-2	8/25/2009	45.4	5.6	9.1		ND<2.5 S			60.1
AV-2	12/8/2009	40.3	5.2	5.8		ND<1			51.3
AV-2	2/17/2010	59.4	7.4	8.8		ND<0.5			75.6
AV-2	5/27/2010	17.2	2.8	4.1		ND<0.5 M			24.1
AV-2	8/25/2010	14.8	2.1	1.9		ND<0.5			18.8
AV-2	11/23/2010	8.3	1.4	1.3		ND<0.5			11
AV-2	2/28/2011	11.9	1.8	ND<0.5		ND<0.5 S			13.7
AV-2	6/1/2011	17.6	2.8	ND<0.5		ND<0.5			20.4
AV-2	9/16/2011	12.6	2	2.4		ND<0.5			17
AV-2	12/5/2011	51	7.1	11		ND<0.5			69.1
AV-2	3/29/2012	6.4	1.2	1		ND<0.5 S			8.6
AV-2	6/26/2012	7.8	1	1.1		ND<0.5			9.9
AV-2	8/30/2012	11.3	1.6	1.6		ND<0.5			14.5

Table 1. **Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;**
USEPA Method 524.2; collected January 2006 through April 2018;
Apple Valley Shopping Center, LaGrange, New York;
PVE File #560537

Sample ID	Dates Sampled	Tetrachloroethene (5 µg/l ¹)	Trichloroethene (5 µg/l ¹)	Chemical Constituent cis-1,2-Dichloroethene (5 µg/l ¹)	Vinyl Chloride (2 µg/l ¹)	Total COC
AV-2	12/20/2012	5.8	1.2	1.9	ND<0.5	8.9
AV-2	3/13/2013	11	1.6	1.8	ND<0.5	14.4
AV-2	5/28/2013	8.6	1.6	1.7	ND<0.5	11.9
AV-2	8/28/2013	8.7	1.7	1.7	ND<0.5	12.1
AV-2	11/19/2013	5	1.4	1.5	ND<0.5	7.9
AV-2	3/20/2014	7.3	1.1	1.2	ND<0.5	9.6
AV-2	5/23/2014	7.3	1.4	1.4	ND<0.5	10.1
AV-2	9/10/2014	7	1	1	ND<0.5	9
AV-2	5/18/2014	7	1	1	ND<0.5	9
AV-2	11/24/2015	46	4	4	ND<0.5	54
AV-2	12/2/2016	13	g 1.4	1.9	ND<0.5	16.3
AV-2	2/22/2017	24	g 1.6	1.9	ND<0.5	27.5
AVS-EFF	2/9/2006	146	8.3	22.1	ND < 0.5	176.4
AVS-EFF	3/9/2006	12.3	1.1	1.4	ND < 0.5	14.8
AVS-EFF	5/16/2006	14	0.6	1.5	ND < 0.5	16.1
AVS-EFF	7/5/2006	1.7	ND < 0.5	ND < 0.5	ND < 0.5	1.7
AVS-EFF	8/22/2006	7.4	ND < 0.5	ND < 0.5	ND < 0.5	7.4
AVS-EFF	11/28/2006	85.8	4.9	13	ND < 0.5	103.7
AVS-EFF	12/11/2006	2.1	ND < 0.5	ND < 0.5	ND < 0.5	2.1
AVS-EFF	3/1/2007	2.4	ND < 0.5	ND < 0.5	ND < 0.5	2.4
AVS-EFF	5/29/2007	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
AVS-EFF	8/28/2007	2	ND < 0.5	ND < 0.5	ND < 0.5	2
AVS-EFF	11/28/2007	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5 S	ND
AVS-EFF	2/28/2008	2.8	ND < 0.5	ND < 0.5	ND < 0.5	2.8
AVS-EFF	5/27/2008	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
AVS-EFF	9/11/2008	0.5	ND<0.5	ND<0.5	ND<0.5	0.5
AVS-EFF	11/25/2008	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
AVS-EFF	3/5/2009	1.4	ND<0.5	ND<0.5	ND<0.5	1.4
AVS-EFF	5/27/2009	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
AVS-EFF	8/25/2009	1.6	ND<0.5	0.7	ND<0.5	2.3
AVS-EFF	12/30/2009	4.3	0.5	1.1	ND<0.5	5.9
AVS-EFF	2/17/2010	3.6	ND<0.5	0.8	ND<0.5	4.4
AVS-EFF	5/27/2010	4.1	ND<0.5	0.6	ND<0.5	4.7
AVS-EFF	8/25/2010	3.5	ND<0.5	0.6	ND<0.5	4.1
AVS-EFF	12/21/2010	2.1	ND<0.5	ND<0.5	ND<0.5	2.1
AVS-EFF	2/28/2011	1.5	ND<0.5	ND<0.5	ND<0.5 S	1.5
AVS-EFF	8/3/2011*	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
AVS-EFF	9/16/2011	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
AVS-EFF	12/5/2011	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
AVS-EFF	3/29/2012	ND<0.5	ND<0.5	ND<0.5	ND<0.5 S	ND
AVS-EFF	6/26/2012	ND<0.5	ND<0.5	ND<0.5	ND<0.5 S	ND
AVS-EFF	8/30/2012	ND<0.5	ND<0.5	ND<0.5	ND<0.5 S	ND
AVS-EFF	12/20/2012	ND<0.5	ND<0.5	ND<0.5	ND<0.5 S	ND
AVS-EFF	3/13/2013	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
AVS-EFF	5/28/2013	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND
AVS-EFF	8/28/2013	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND
AVS-EFF	11/19/2013	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND
AVS-EFF	3/20/2014	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND
AVS-EFF	5/23/2014	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND
AVS-EFF	9/10/2014	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND

Table 1. **Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;**
USEPA Method 524.2; collected January 2006 through April 2018;
Apple Valley Shopping Center, LaGrange, New York;
PVE File #560537

Sample ID	Dates Sampled	Chemical Constituent					Total COC
		Tetrachloroethene (5 µg/l ¹)	Trichloroethene (5 µg/l ¹)	cis-1,2-Dichloroethene (5 µg/l ¹)	Vinyl Chloride (2 µg/l ¹)		
AVS-EFF	12/15/2014	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND
AVS-EFF	3/27/2015	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND
AVS-EFF	6/25/2015	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND
AVS-EFF	8/11/2015	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND
AVS-EFF	12/14/2015	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND
AVS-EFF	3/29/2016	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND
AVS-EFF	11/11/2016	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND
AVS-EFF	2/22/2017	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND
AVS-EFF	6/30/2017	2	ND<0.50	ND<0.50	ND<0.50		2
AVS-EFF	8/18/2017	1.4	1.2	2	ND<0.50		4.6
AVS-EFF	10/18/2017	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND
AVS-EFF	4/4/2018	1.3	ND<0.50	ND<0.50	ND<0.50		1.3
AV-1	1/16/2006	35.5	1.4	2	ND < 0.5		38.9
AV-1	5/16/2006	13.9	ND < 0.5	ND < 0.5	ND < 0.5		13.9
AV-1	8/23/2006	10.3	0.6	0.8 M	ND < 0.5		11.7
MW-1	1/17/2006	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5		ND
MW-1	5/16/2006	ND < 0.5	2.2	ND < 0.5	ND < 0.5		2.2
MW-1	8/22/2006	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5		ND
MW-1	8/28/2007	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5		ND
MW-1	9/10/2008	3.5	ND<0.5	ND<0.5	ND<0.5		3.5
MW-1	9/11/2014	7	ND<0.5	ND<0.5	ND<0.5		7
MW-1	5/19/2015	ND < 0.5	ND<0.5	ND<0.5	ND<0.5		ND
MW-2	1/13/2006	967	95.7	94.9	ND < 5.0		1,157.60
MW-2	5/16/2006	4,440	638	1,300	ND < 25.0		6,378
MW-2	8/22/2006	2,710	390	943 M	24.2		4,067.20
MW-2	8/28/2007	2,760	396	752	31		3,939
MW-2	9/10/2008	1,290	182	484	32.7		1,988.70
MW-2	8/25/2009	2,630	440	772	ND<100 S		3,842
MW-2	8/25/2010	468	63.2	106	ND<10		637.2
MW-2	9/16/2011	1,630	229	392	50		2,301
MW-2	8/30/2012	1,370	190	232	ND<50		1,792
MW-2	8/28/2013	2,000	E 160	E 220	E 10		2,390
MW-2	9/10/2014	1,700	E 270	E 380	E 3		2,353
MW-2	5/20/2015	2,900	D 320	D 380	E 8		3,608
MW-3	1/16/2006	0.6	ND < 0.5	ND < 0.5	ND < 0.5		0.6
MW-3	5/16/2006	2.6	ND < 0.5	ND < 0.5	ND < 0.5		2.6
MW-3	8/23/2006	4.3	ND < 0.5	ND < 0.5	ND < 0.5		4.3
MW-3	8/29/2007	2.5	ND < 0.5	ND < 0.5	ND < 0.5		2.5
MW-3	9/10/2008	2.8	ND<0.5	0.6	ND<0.5		3.4
MW-3	9/12/2014	ND<0.5	ND<0.5	ND < 0.5	ND<0.5		0
MW-3	5/19/2015	13	2	1	ND<0.5		16
MW-4B	5/18/2015	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5		ND
MW-5	1/18/2006	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5		ND
MW-5	8/23/2006	4	ND < 0.5	0.6 M	ND < 0.5		4.6
MW-5	3/5/2007	2	ND < 0.5	ND < 0.5	ND < 0.5		2

Table 1. **Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;**
 USEPA Method 524.2; collected **January 2006 through April 2018;**
 Apple Valley Shopping Center, LaGrange, New York;
 PVE File #560537

Sample ID	Dates Sampled	Tetrachloroethene (5 µg/l ¹)	Trichloroethene (5 µg/l ¹)	Chemical Constituent cis-1,2-Dichloroethene (5 µg/l ¹)	Vinyl Chloride (2 µg/l ¹)	Total COC
MW-5	8/28/2007	3.3	ND < 0.5	ND < 0.5	ND < 0.5	3.3
MW-5	3/26/2008	0.7	ND < 0.5	ND < 0.5	ND < 0.5	0.7
MW-5	9/11/2008	2.4	ND<0.5	ND<0.5	ND<0.5	2.4
MW-5	9/10/2014	3	ND<0.5	ND<0.5	ND<0.5	3
MW-5	5/21/2015	1	ND<0.5	ND<0.5	ND<0.5	1
MW-6	1/16/2006	21.6	3.4	7.9	ND < 0.5	32.9
MW-6	5/16/2006	6	0.6	ND < 0.5	ND < 0.5	6.6
MW-6	8/22/2006	3.7	ND < 0.5	ND < 0.5	ND < 0.5	3.7
MW-6	8/28/2007	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
MW-6	9/10/2008	2.8	ND<0.5	ND<0.5	ND<0.5	2.8
MW-6	9/10/2014	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0
MW-6	5/19/2015	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0
MW-7	1/16/2006	6.1	3.6	0.9	ND < 0.5	10.6
MW-7	5/16/2006	34	3.2	7.3	ND < 0.5	44.5
MW-7	8/22/2006	23.6	2.8	8.7 M	ND < 0.5	35.1
MW-7	8/28/2007	12.5	1.9	2.8	ND < 0.5	17.2
MW-7	9/10/2008	17.1	1.4	3.7	ND<0.5	22.2
MW-7	8/25/2009	27.2	3.9	8	ND<0.5 S	39.1
MW-7	8/25/2010	9.9	2.7	2.6	ND<0.5	15.2
MW-7	9/16/2011	8.6	1.2	0.9	ND<0.5	10.7
MW-7	8/30/2012	16	2.6	1.6	ND<0.5	20.2
MW-7	8/28/2013	9.7	1.5	1.4	ND<0.5	12.6
MW-7	9/10/2014	13	2	2	ND<0.5	17
MW-7	5/19/2015	9	0.9	0.8	ND<0.5	10.7
MW-8	5/21/2015	3	1	1	ND<0.5	5
MW-9	5/21/2015	2	ND<0.5	0.6	ND<0.5	2.6
MW-10	5/20/2015	21	2	2	ND<0.5	25
MW-11D	5/18/2015	10	2	4	ND<0.5	16
MW-11M	5/20/2015	170	58	96	3	327
MW-12	5/19/2015	4	1	2	ND<0.5	7
MW-13	5/19/2015	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0
MW-14	5/19/2015	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0
MW-RCI	5/18/2015	92	16	580	15	703

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;

Table 1. **Volatile Organic Compounds (VOCs) in Quarterly Groundwater Monitoring Samples;**
 USEPA Method 524.2; collected **January 2006 through April 2018;**
 Apple Valley Shopping Center, LaGrange, New York;
 PVE File #560537

Sample	Dates	Chemical Constituent				
ID	Sampled	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

M = Matrix spike recoveries outside QC limits. Matrix bias indicated;

E = Result exceeded calibration range, secondary dilution required

COC = Contaminants of concern.

* Final sampling for second quarter 2011

D = compound analyzed at a dilution

g = results fail applicable NYS drinking water standards.

Table 2. **Volatile Organic Compounds (VOCs) in Residential Supply Well Monitoring Samples;**
USEPA Method 524.2; collected March 1998 through April 2018;
Apple Valley Shopping Center, LaGrange, New York;
PVE File #560537

Sample ID	Dates Sampled	Chemical Constituent				Total COC
		Tetrachloroethene (5 µg/l ¹)	Trichloroethene (5 µg/l ¹)	cis-1,2-Dichloroethene (5 µg/l ¹)	Vinyl Chloride (2 µg/l ¹)	
Lot 6 (Lipka)	1/29/2003	1	ND<0.5	ND < 0.5	ND	1
Lot 6 (Lipka)	8/23/2006	4.5	ND<0.5	0.9 M	ND<0.5	5.4
Lot 6 (Lipka)	2/27/2007	2.6	ND<0.5	0.6	ND<0.5	3.2
Lot 6 (Lipka)	8/7/2007	2.2	0.8	ND < 0.5	ND<0.5	3
Lot 6 (Lipka)	2/27/2008	9.8	0.6	1.3	ND<0.5	11.7
Lot 6 (Lipka)	6/3/2008	3	ND<0.5	0.6	ND<0.5	3.6
Lot 6 (Lipka)	9/5/2008	2.1	ND<0.5	0.6	ND<0.5	2.7
Lot 6 (Lipka)	3/19/2009	2.9	ND<0.5	0.9	ND<0.5	3.8
Lot 6 (Lipka)	8/17/2009	3.7	0.8	1.1	ND<0.5	5.6
Lot 6 (Lipka)	2/4/2010	2.3	ND<0.5	ND<0.5	ND<0.5	2.3
Lot 6 (Lipka)	8/4/2010	1.1	ND<0.5	ND<0.5	ND<0.5	1.1
Lot 6 (Lipka)	2/10/2011	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
Lot 6 (Lipka)	8/9/2011	1.4	ND<0.5	ND<0.5	ND<0.5	1.4
Lot 6 (Lipka)	2/20/2012	2.4	ND<0.5	ND<0.5	ND<0.5	2.4
Lot 6 (Lipka)	8/20/2012	2.1	ND<0.5	0.5	ND<0.5	2.6
Lot 6 (Lipka)	2/28/2013	1.7	ND<0.5	ND<0.5	ND<0.5	1.7
Lot 6 (Lipka)	8/20/2013	1.8	ND<0.5	ND<0.5	ND<0.5	1.8
Lot 6 (Lipka)	1/27/2014	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
Lot 6 (Lipka)	8/20/2014	1.8	ND<0.5	ND<0.5	ND<0.5	1.8
Lot 6 (Lipka)	3/27/2015	1	ND<0.5	0.56	ND<0.5	1.56
Lot 6 (Lipka)	8/11/2015	1	ND<0.5	ND<0.5	ND<0.5	1
Lot 6 (Lipka)	3/29/2016	1.1	ND<0.5	0.9	ND<0.5	2
Lot 6 (Lipka)	2/22/2017	1.1	ND<0.5	0.64	ND<0.5	1.74
Lot 6 (Lipka)	8/18/2017	1.5	ND<0.5	ND<0.5	ND<0.5	1.5
Lot 6 (Lipka)	4/4/2018	0.84	ND<0.5	ND<0.5	ND<0.5	0.84
Lot 8	1/29/2003	0.6	ND	ND	ND	0.6
Lot 8	8/22/2006	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
Lot 8	2/23/2007	0.8	ND < 0.5	ND < 0.5	ND < 0.5	0.8
Lot 9	1/29/2003	0.8	ND	0.6	ND	1.4
Lot 9	2/23/2007	0.9	ND < 0.5	0.6	ND < 0.5	1.5
Lot 9	8/24/2007	0.7	0.5	ND < 0.5	ND < 0.5	1.2
Lot 9	2/29/2008	1.5	1	1.9	ND < 0.5	4.4
Lot 9	9/5/2008	ND<0.5	0.6	0.7	ND<0.5	1.3
Lot 10	September-01	7.8	3.4	4	ND	15.2
Lot 10	March-12	3.7	2.1	2.6	ND	8.4
Lot 10	September-12	ND	ND	ND	ND	ND
Lot 10	April-12	2.1	2.2	1.9	ND	6.2
Lot 10	November-12	1.8	2.2	2.6	ND	6.6
Lot 10	5/18/2004	1.9	2	2	ND	5.9
Lot 10	12/14/2004	3.2	3.3	2.9	ND	9.4
Lot 10	7/13/2005	4.77	3.54	2.85	ND	11.16
Lot 10	8/25/2006	15.4	4.1 M	10.3	ND < 0.5	29.8

Table 2. **Volatile Organic Compounds (VOCs) in Residential Supply Well Monitoring Samples;**
 USEPA Method 524.2; collected **March 1998 through April 2018;**
 Apple Valley Shopping Center, LaGrange, New York;
 PVE File #560537

Sample ID	Dates Sampled	Chemical Constituent				Total COC
		Tetrachloroethene (5 µg/l ¹)	Trichloroethene (5 µg/l ¹)	cis-1,2-Dichloroethene (5 µg/l ¹)	Vinyl Chloride (2 µg/l ¹)	
Lot 10	8/30/2007	8	3.9	4.6	ND < 0.5	16.5
Lot 10	2/28/2008	12.1	12.1	15.8	ND < 0.5	40
Lot 11 (Alben)	3/18/1998	ND	ND	ND	ND	ND
Lot 11 (Alben)	1/25/2007	2.8	0.5	ND < 0.5	ND < 0.5 S	3.3
Lot 11 (Alben)	8/27/2007	1.6	0.5	ND < 0.5	ND < 0.5	2.1
Lot 11 (Alben)	2/28/2008	20.2	1.3	2	ND < 0.5	23.5
Lot 11 (Alben)	6/26/2008	2.5	1.6	1.9	ND<0.5	6
Lot 11 (Alben)	9/5/2008	0.9	ND<0.5	ND<0.5	ND<0.5	0.9
Lot 11 (Alben)	3/12/2009	1.4	1	1.5	ND<0.5	3.9
Lot 11 (Alben)	9/29/2009	1.4	ND<0.5	ND<0.5	ND<0.5	1.4
Lot 11 (Alben)	2/24/2010	1.2	ND<0.5	ND<0.5	ND<0.5	1.2
Lot 11 (Alben)	8/5/2010	1.2	ND<0.5	ND<0.5	ND<0.5	1.2
Lot 11 (Alben)	3/3/2011	1.4	1.2	1.1	ND<0.5	3.7
Lot 11 (Alben)	8/5/2011	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
Lot 12	1/29/2003	ND < 0.5	ND	ND	ND	ND
Lot 12	9/7/2006	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
Lot 12	2/21/2007	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
Lot 12	8/28/2007	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
Lot 13	2/22/2007	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND
Lot 13	8/21/2007	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.

ANALYTICAL

ANALYTICAL REPORT

Job Number: 420-134969-1

SDG Number: AVSC 560537

Job Description: PVE LLC

For:

PVE LLC

48 Springside Ave.

Poughkeepsie, NY 12603

Attention: Christopher B. Brown

Gaura Marciano

Designee for

Meredith W Ruthven

Customer Service Manager

mruthven@envirotestlaboratories.com

04/16/2018

cc: Tara Alvarado

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EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOH PH-0554

Envirotest Laboratories, Inc.

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Job Narrative
420-J134969-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method 524.2: The laboratory control standard (LCS) for batch 120151 did not meet the range of acceptable recoveries for the analytes indicated by an asterisk (*) on the results form. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported with confidence of no false negatives.

Method 524.2: The laboratory control standard (LCS) for batch 120198 did not meet the range of acceptable recoveries for the analytes indicated by an asterisk (*) on the results form. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported with confidence of no false negatives.

No other analytical or quality issues were noted.

METHOD SUMMARY

Client: PVE LLC

Job Number: 420-134969-1

SDG Number: AVSC 560537

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Purgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2	

Lab References:

EnvTest = EnviroTest

Method References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

METHOD / ANALYST SUMMARY

Client: PVE LLC

Job Number: 420-134969-1
SDG Number: AVSC 560537

Method	Analyst	Analyst ID
EPA-DW 524.2	Andersen, Eric C	ECA

SAMPLE SUMMARY

Client: PVE LLC

Job Number: 420-134969-1
SDG Number: AVSC 560537

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-134969-1	LIPKA - SW	Water	04/04/2018 0920	04/04/2018 1450
420-134969-2	AVS - EFF	Water	04/04/2018 0950	04/04/2018 1450

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-134969-1
Sdg Number: AVSC 560537

Client Sample ID: LIPKA - SW
Lab Sample ID: 420-134969-1

Date Sampled: 04/04/2018 0920
Date Received: 04/04/2018 1450
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 524.2				Date Analyzed:	04/11/2018 1229	
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U *	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	1.1		ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-134969-1
Sdg Number: AVSC 560537

Client Sample ID: LIPKA - SW
Lab Sample ID: 420-134969-1

Date Sampled: 04/04/2018 0920
Date Received: 04/04/2018 1450
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
m,p-Xylene	1.0	U	ug/L	1.0	1.0	1.0
Methyl-t-butyl ether	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Tetrachloroethene	0.84		ug/L	0.50	0.50	1.0
Toluene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U *	ug/L	0.50	0.50	1.0
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	92		%		71 - 120	
Toluene-d8 (Surr)	96		%		79 - 121	
1,2-Dichloroethane-d4 (Surr)	109		%		70 - 128	

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-134969-1
Sdg Number: AVSC 560537

Client Sample ID: AVS - EFF
Lab Sample ID: 420-134969-2

Date Sampled: 04/04/2018 0950
Date Received: 04/04/2018 1450
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 524.2	Date Analyzed:			04/10/2018	1508	
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U *	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-134969-1
Sdg Number: AVSC 560537

Client Sample ID: AVS - EFF
Lab Sample ID: 420-134969-2

Date Sampled: 04/04/2018 0950
Date Received: 04/04/2018 1450
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
m,p-Xylene	1.0	U	ug/L	1.0	1.0	1.0
Methyl-t-butyl ether	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Tetrachloroethene	1.3		ug/L	0.50	0.50	1.0
Toluene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U *	ug/L	0.50	0.50	1.0
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	88		%		71 - 120	
Toluene-d8 (Surr)	97		%		79 - 121	
1,2-Dichloroethane-d4 (Surr)	106		%		70 - 128	

DATA REPORTING QUALIFIERS

Client: PVE LLC

Job Number:
Sdg Number: AVSC 560537

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	U	The analyte was analyzed for but not detected at or above the lowest stated limit.

Certification Information

Client: PVE LLC

Job Number:

Sdg Number: AVSC 560537

The following analytes are Not Part of the ELAP scope of accreditation

Sulfur, Tungsten, Bicarbonate Alkalinity, 7 Day BOD 5210C, 28 Day BOD, Soluble BOD, Carbon Dioxide, Carbonate Alkalinity, CBOD Soluble, Chlorine, Cyanide (WAD), Ferrous Iron, Ferric Iron, Total Nitrogen, Total Organic Nitrogen, Dissolved Oxygen, pH, Solids (Fixed), Solids (Percent), Solids (Percent Moisture), Solids (Percent Volatile), Solids (Volatile Suspended), Temperature, TKN (Soluble), COD (Soluble), Total Inorganic Carbon, 2-Aminopyridine, 3-Picoline, 1-Methyl-2-pyrrilidinone, Aziridine, Dimethyl sulfoxide, 1-Chlorohexane, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, p-Diethylbenzene, Iron Bacteria, Salmonella, & Sulfur Reducing Bacteria.

The following analytes are Not Part of ELAP Potable Water scope of accreditation

Phosphorus (365.3), Nitrate-Nitrite (10-107-4-1C, 353.2), m-Xylene & p-Xylene (502.2, 524), o-Xylene (502.2, 524), Fecal Coliform (9222D), Sulfide (SM4500SD), Acenaphthene (525.2), Acenaphthylene (525.2), Fluoranthene (525.2), Fluorene (525.2), Phenanthrene (525.2), Anthracene (525.2), Pyrene (525.2), Benzo[a]anthracene (525.2), Benzo[b]fluoranthene (525.2), Benzo[g,h,i]perylene (525.2), Benzo[k]fluoranthene (525.2), Indeno[1,2,3-cd]pyrene (525.2), & Dibenzo(a,h)anthracene (525.2).

The following analytes are Not Part of ELAP Solid and Hazardous Waste scope of accreditation

Ammonia (SM 4500NH3G), TKN (351.2), Phosphorus (365.3), 1,2-Dichloro-1,1,2-trifluoroethane (8260), & Chlorodifluoromethane (8260).

The following analytes are Not Part of ELAP Non Potable Water scope of accreditation

Dissolved Organic Carbon (5310C), Mecoprop (8151A), & MCPA (8151A).

Definitions and Glossary

Client: PVE LLC

Job Number:

Sdg Number: AVSC 560537

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points



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Newburgh, NY 12550
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CUSTOMER PVE, LLC
ADDRESS 48 Springdale Avenue
Poughkeepsie, NY 12603
CITY/STATE/
ZIP
CONTACT Conor Tarbell PHONE 845-454-2941
PROJECT
LOCATION AVSC
PRJ NUMBER/P.O.# 560537

REPORT TYPE	TURNAROUND
☒ STANDARD ☐ ISRA	☒ NORMAL
☐ NJ REG	☐ QUICK
NYASP ☐ A ☐ B	☐ VERBAL
☒ OTHER NYSDEC EQUIS EDD	

REPORT # (Lab Use Only)

134969

NOTE: SAMPLE TEMPERATURE
IN PN RECEIPT MUST BE 10-12C

SAMPLE TEMP 7.6

SAMPLE RECD BY ☒ Y ☐ N

PH CHECK ☐ Y ☐ N

CHLORINE RESIDUAL ☐ Y ☐ N

MATRIX: DW=DRINKING WATER S=SOIL O=OIL WW=WASTE WATER
... SL=SLUDGE GW=GROUND WATER

[illegible]

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECTED TO THE ENVIROTEST TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY <i>Benjamin Wolff</i>	COMPANY PVE, LLC	DATE 4/4/18	TIME 1355	RECEIVED BY <i>WC</i>	COMPANY ETL	DATE 4/4/18	TIME 1355
SAMPLED BY <i>Benjamin Wolff</i>	COMPANY PVE, LLC	DATE 4/4/18	TIME 0950	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY <i>WC</i>	COMPANY ETL	DATE 4/4/18	TIME 1450	RECEIVED BY <i>A. Elmendorf</i>	COMPANY ETL	DATE 4-4-18	TIME 1450
COMMENTS							

Page 13 of 14

NYSDOH 10142 NJDEP NYO 10142-0100043

LOGIN SAMPLE RECEIPT CHECK LIST

Client: PVE LLC

Job Number: 420-134969-1
SDG Number: AVSC 560537

Login Number: 134969

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	4.0 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	