TABLES

Table 1
Analytical Sample Summary
IRM Analytical Testing Program Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Location	Date Collected	Depth/ Interval (ft bgs)	VOCs EPA Method 8260-TCL	SVOCs EPA Method 8270-STARS	RCRA 8 Metals EPA Method 6010/7471	SVOCs EPA Method 8270-BN	PCBs EPA Method 8082	TCLP VOCs EPA Method 8260C	TCLP LEAD EPA Method 6010C	FLASHPOINT EPA Method 1010	VOCs EPA Method SW-846, 8260B	SVOCs EPA Method 8270-BN Acid Extractables	Methane, Ethane, Ethene RSK 175	T.O.C. EPA Method 9060	Chloride, Sulfate EPA Method 300	Nitrate EPA Method 335.2	Dissolved Iron, Manganese SW-846, 6010B
SOIL SAMPLES AOC-1 EXCAVATION																	
AOC-1-E-WALL	11/3/2011	5 to 7	X	X													
AOC-1-NE-WALL	11/3/2011	5 to 7	X	X													
AOC-1-BOTTOM-E	11/3/2011	10.5 to 11	X	X													
AOC-1-NW-WALL	11/4/2011	6 to 10	X	X													
AOC-1-BOTTOM-W	11/4/2011	7 to 8	X	X													
AOC-1-SE-WALL	11/4/2011	6 to 8	X	X													
AOC-1-SW-WALL	11/7/2011	7 to 10	X	X													
AOC-1-BOTTOM-CENTER	11/9/2011	15	X	X													
AOC-1-BOTTOM-SW	11/9/2011	15	X	X													
AOC-1-BOTTOM-W	11/11/2011	15	X	X													
AOC-1-W-WALL	11/11/2011	9 to 11	X	X													
SOIL SAMPLES AOC-2 EXCAVATION																	
EXC-2-NE-WALL	10/24/2011	8 to 10	X	X													
EXC-2-NW-WALL	10/24/2011	8 to 10	X	X													
EXC-2-BOTTOM-N	10/25/2011	14 to 15	X	X													
EXC-2-BOTTOM-S	10/25/2011	14 to 15	X	X													
EXC-2-SW-WALL	10/25/2011	8 to 10	X	X													
EXC-2-S-WALL	10/25/2011	8 to 10	X	X													
EXC-2-E-WALL	10/25/2011	8 to 10	X	X													
EXC-2-SE-WALL	10/25/2011	8 to 10	X	X													
EXC-2-BOTT-NWALL	8/12/2013	14	X														
EXC-2-BOTT-SWWALL	8/12/2013	15	X														
EXC-2-NWWALL-5	8/12/2013	5	X														
EXC-2-BOTT-SEWALL	8/12/2013	15	X														
SOIL SAMPLES AOC-3 EXCAVATION																	
AOC-3-BOTT-SW	8/13/2013	15	X														
AOC-3-BOTT-NW	8/13/2013	15	X														
AOC-3-STOCK-S	8/14/2013	NA	X														
AOC-3-STOCK-N	8/14/2013	NA	X														
AOC-3-BOTT-3	8/15/2013	15	X														
AOC-3-WWALL-1	8/15/2013	12	X														
AOC-3-WWALL-2	8/15/2013	12	X														
AOC-3-WWALL-3	8/15/2013	10	X														
AOC-3-NWALL-1	8/19/2013	12	X														
AOC-3-BOTT-4	8/19/2013	15	X														
AOC-3-SWALL-1	8/19/2013	12	X														
AOC-3-EWALL-1	8/22/2013	12	X														
AOC-3-BOTT-5	8/22/2013	15	X														
AOC-3-EWALL-2	8/22/2013	12	X														
AOC-3-SWALL-2	8/22/2013	12	X														
AOC-3-NWALL-2	8/22/2013	14	X														
AOC-3-EWALL-3	8/22/2013	12	X														
AOC-3-BOTT-6	8/22/2013	15	X														
SOIL SAMPLES 6,000-GALLON STEEL UST EXCAVATION																	
UST-EXC-N-WALL	10/28/2011	5 to 7	X	X													
UST-EXC-S-WALL	10/28/2011	5 to 7	X	X													
UST-EXC-E-WALL	10/28/2011	5 to 7	X	X													
UST-EXC-W-WALL	10/28/2011	5 to 7	X	X													
UST-EXC-BOTTOM	10/28/2011	9 to 9.5	X	X													
GROUNDWATER SAMPLE AOC-1 EXCAVATION																	
AOC-1-GW	11/9/2011	NA	X														
GROUNDWATER SAMPLE AOC-2 EXCAVATION																	
EXC-2-GW	10/25/2011	NA	X	X													
GROUNDWATER SAMPLES AOC-3 EXCAVATION																	
AOC-3-GW	8/14/2013	NA	X														
AOC-3-GW-2	8/22/2013	NA	X														
GROUNDWATER SAMPLES FALL 2013 ELECTRON DONOR COMPOUND INJECTION PILOT STUDY																	
EW-1.25	10/17/2013	NA	X										X	X	X	X	X
SP-32	10/17/2013	NA									X		X	X	X	X	X
SP-37	10/17/2013	NA									X		X	X	X	X	X
SP-38	10/17/2013	NA									X		X	X	X	X	X
SP-43	10/17/2013	NA									X		X	X	X	X	X
SP-45	10/17/2013	NA									X		X	X	X	X	X

Notes:
1. ft bgs = feet below ground surface.
2. VOCs = Volatile Organic Compounds.
3. SVOCs = Semi-Volatile Organic Compounds.
4. RCRA Metals = Resource Conservation and Recovery Act.
5. PCBs = Polychlorinated biphenyls.
6. TCL = Target Compound List.
7. BN = Base Neutrals.
8. TCLP = Toxicity Characteristic Leaching Procedure.
9. T.O.C. = Total Organic Carbon

Table 2
IRM AOC-1 Confirmatory Soil Sample Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Parameter	Protection of Groundwater Restricted Use Soil Cleanup Objectives	**Restricted Residential Use Soil Cleanup Objectives**	Restricted Commercial Soil Cleanup Objectives	AOC-1-E-Wall 5 to 7 feet bgs Results	AOC-1-NE-Wall 5 to 7 feet bgs Results	AOC-1-Bottom-E 10.5 to 11 feet bgs Results	AOC-1-NW-Wall 6 to 10 feet bgs Results	AOC-1-Bottom-W 7 to 8 feet bgs Results	AOC-1-SE-Wall 6 to 8 feet bgs Results	AOC-1-SW-Wall 7 to 10 feet bgs Results	AOC-1-Bottom-Center 15 feet bgs. Results	AOC-1-Bottom-SW 15 feet bgs Results	AOC-1-Bottom-W 15 feet bgs Results	AOC-1-W-Wall 9 to 11 feet bgs Results
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)														
Carbon disulfide	NV	**NV**	NV	< 6.1	< 6.3	< 5.6	< 5.5	< 6.2	< 6	< 5.6	0.57J	< 5.6	< 6.5	< 6.1
Acetone	50	**100,000**	500,000	43	< 6.3	< 5.6	< 5.5	< 6.2	< 6	< 5.6	81	12	18	< 6.1
Methylene chloride	50	**100,000**	500,000	2.3J	2.4J	2.3J	2.3J	< 6.2	< 6	< 5.6	< 5.6	< 5.6	< 6.5	< 6.1
2-Butanone	NV	**NV**	NV	3.4J	< 6.3	< 5.6	< 5.5	< 6.2	< 6	< 5.6	< 5.6	< 5.6	< 6.5	< 6.1
Benzene	60	**4,800**	44,000	< 6.1	< 6.3	< 5.6	2.4J	< 6.2	< 6	4.3J	300J	6.3	< 6.5	< 6.1
Toluene	700	**100,000**	500,000	< 6.1	< 6.3	< 5.6	16	1.9J	< 6	84	3,100	88B	2.3J	2.3J
Ethylbenzene	1,000	**41,000**	390,000	< 6.1	< 6.3	< 5.6	5.1J	< 6.2	< 6	32	870	12	< 6.5	< 6.1
m&p-Xylene	1,600	**100,000**	500,000	< 6.1	< 6.3	< 5.6	32	< 6.2	< 6	180	6,800	78	< 6.5	< 6.1
o-Xylene	1,600	**100,000**	500,000	< 6.1	< 6.3	< 5.6	8.3	< 6.2	< 6	61	2,100	25	< 6.5	< 6.1
Isopropylbenzene	NV	**NV**	NV	< 6.1	< 6.3	< 5.6	< 5.5	< 6.2	< 6	< 5.6	28	< 5.6	< 6.5	< 6.1
n-Propylbenzene	3,900	**100,000**	500,000	< 6.1	< 6.3	< 5.6	1.5J	< 6.2	< 6	14	170	< 5.6	< 6.5	< 6.1
1,3,5-Trimethylbenzene	8,400	**52,000**	190,000	< 6.1	< 6.3	< 5.6	5.1J	< 6.2	< 6	45	1,100	4.1J	< 6.5	< 6.1
1,2,4-Trimethylbenzene	3,600	**52,000**	190,000	< 6.1	< 6.3	< 5.6	18	< 6.2	< 6	110	3,800	10	< 6.5	< 6.1
Naphthalene	12,000	**100,000**	500,000	< 6.1	< 6.3	< 5.6	2.4J	< 6.2	< 6	6.9	90	< 5.6	< 6.5	< 6.1
Total VOCs				48.7	2.4	2.3	93.1	1.9	<	537.2	18,439.6	235.4	20.3	2.3
Semi-Volatile Organic Compounds - EPA Method 8270 TCL (ug/kg)														
Naphthalene	12,000	**100,000**	500,000	< 410	< 430	< 370	< 400	< 410	< 390	< 370	130	< 370	< 430	< 410
Fluoranthene	100,000	**100,000**	500,000	< 410	110J	< 370	< 400	210J	< 390	< 370	< 380	< 370	110J	< 410
Pyrene	100,000	**100,000**	500,000	< 410	< 430	< 370	< 400	130J	< 390	< 370	< 380	< 370	87J	< 410
Benzo [a] anthracene	1,000	**1,000**	5,600	< 410	< 430	< 370	< 400	88J	< 390	< 370	< 380	< 370	< 430	< 410
Chrysene	1,000	**3,900**	56,000	< 410	< 430	< 370	< 400	120J	< 390	< 370	< 380	< 370	< 430	< 410
Benzo [b] fluoranthene	1,700	**1,000**	5,600	< 410	< 430	< 370	< 400	130J	< 390	< 370	< 380	< 370	< 430	< 410
Benzo [a] pyrene	22,000	**1,000**	1,000	< 410	< 430	< 370	< 400	89J	< 390	< 370	< 380	< 370	< 430	< 410
Benzo [g,h,i] perylene	1,000,000	**100,000**	500,000	< 410	< 430	< 370	< 400	91J	< 390	< 370	< 380	< 370	< 430	< 410
Total SVOCs				<	110	<	<	858	<	<	130	<	197	<

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Attachment C for list of all compounds included in analysis.
2. Analytical testing completed by Spectrum Analytical., Inc. located in Warwick, RI.
3. ug/kg = part per billion, mg/kg = part per million.
4. NV = no value.
5. "J" qualifier = indicates an estimated value due to either the compound being detected below the report limit, or an estimated concentration for tentatively identified compound.
6. "B" qualifier = compound was also detected in the associated Method Blank.
7. < 6.1 = compound was not detected above its respective reporting limit.
8. Shading indicates value exceeds Restricted Commercial Use Soil Cleanup Objectives.
9. **Bold** indicates value exceeds Restricted Residential Use Soil Cleanup Objectives.
10. Underline indicates value exceeds Protection of Groundwater Restricted Use Soil Cleanup Objectives.
11. Soil cleanup objectives (SCOs) are from NYSDEC Part 375, Subpart 375-6: Unrestricted Use and Restricted Use Soil Cleanup Objectives.

Table 3
IRM AOC-2 and AOC-3 Confirmatory Soil Sample Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Parameter	Protection of Groundwater Restricted Use Soil Cleanup Objectives	**Part 375 - Restricted Residential Use SCOs**	Restricted Com Soil Cleanup Objectives	AOC-2											
				EXC-2-NE-WALL 8 to 10 feet bgs Results	EXC-2-NW-Wall 8 to 10 feet bgs Results	EXC-2-Bottom-N 14 to 15 feet bgs Results	EXC-2-Bottom-S 14 to 15 feet bgs Results	EXC-2-SW-Wall 8 to 10 feet bgs Results	EXC-2-S-Wall 8 to 10 feet bgs Results	EXC-2-E-Wall 8 to 10 feet bgs Results	EXC-2-SE-Wall 8 to 10 feet bgs Results	EXC-2-BOTT-NWALL 14 feet bgs Results	EXC-2-BOTT-SWWALL 15 feet bgs Results	EXC-2-BOTT-SEWALL 15 feet bgs Results	EXC-2-NWWALL-5 5 feet bgs Results
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)															
Acetone	50	**100,000**	500,000	< 6	< 3,700	7.9	< 5.8	< 5.3	< 6.1	5.2J	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
1,1,1-Trichloroethane	680	**100,000**	500,000	< 6	< 3,700	2.8J	1.4J	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
Tetrachloroethene	1300	**19,000**	150,000	< 6	< 3,700	1.6J	2.8J	2J	3J	< 5.5	1.9J	< 5.7	< 6.1	< 6.2	< 5.9
Trichloroethene	470	**21,000**	200,000	< 6	< 3,700	< 5.8	9.6	1.7J	2.7J	< 5.5	1.2J	< 5.7	< 6.1	< 6.2	< 5.9
Methylene chloride	50	**100,000**	500,000	< 6	< 3,700	< 5.8	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
Toluene	700	**100,000**	500,000	13	**400,000D**	2,500	< 5.8	< 5.3	5.4J	13	4.7J	< 5.7	2.9 J	2.7 J	< 5.9
Ethylbenzene	1,000	**41,000**	390,000	< 6	**81,000D**	750	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
m&p-Xylene	1,600	**100,000**	500,000	2.9J	**290,000D**	4,900	< 5.8	< 5.3	4.2J	3.4J	2.4J	< 5.7	< 6.1	14	< 5.9
o-Xylene	1,600	**100,000**	500,000	< 6	**110,000D**	2,300	< 5.8	< 5.3	1.5J	1.2J	< 6.1	< 5.7	2.6 J	23	< 5.9
Isopropylbenzene	NV	**NV**	NV	< 6	2,800J	35	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
n-Propylbenzene	3,900	**100,000**	500,000	< 6	2,000J	19	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
1,3,5-Trimethylbenzene	8,400	**52,000**	190,000	< 6	< 3,700	19	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
sec-Butylbenzene	11,000	**100,000**	500,000	< 6	< 3,700	< 5.8	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
1,2,4-Trimethylbenzene	3,600	**52,000**	190,000	< 6	1,500J	35	< 5.8	< 5.3	2.7J	< 5.5	2.1J	< 5.7	< 6.1	< 6.2	< 5.9
p-Isopropyltoluene	10,000 Note 11	**NV**	NV	< 6	< 3,700	< 5.8	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
n-Butylbenzene	12,000	**100,000**	NV	< 6	< 3,700	< 5.8	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
Naphthalene	12,000	**100,000**	500,000	< 6	< 3,700	< 5.8	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
Total VOCs				15.9	887,300	10570.3	13.8	3.7	19.5	22.8	12.3	0	5.5	39.7	0
Semi-Volatile Organic Compounds - EPA Method 8270 TCL (ug/kg)															
Total SVOCs				<	<	<	<	<	<	<	<	NT	NT	NT	NT

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Attachment C for list of all compounds included in analysis.
2. Analytical testing completed by Spectrum Analytical., Inc. located in Warwick, RI.
3. ug/kg = part per billion, mg/kg = part per million.
4. NV = no value.
5. "J" qualifier = indicates an estimated value due to either the compound being detected below the report limit, or an estimated concentration for tentatively identified compound.
6. "B" qualifier = compound was also detected in the associated Method Blank.
7. "D" qualifier = compound concentration was obtained from a secondary dilution analysis.
8. < 6 = compound was not detected above its respective reporting limit.
9. Shading indicates value exceeds Restricted Commercial Use Soil Cleanup Objectives.
10. **Bold** indicates value exceeds Restricted Residential Use Soil Cleanup Objectives.
11. NT = Not tested.
12. Underline indicates value exceeds Protection of Groundwater Restricted Use Soil Cleanup Objectives.
13. Soil cleanup objectives (SCOs) are from NYSDEC Part 375, Subpart 375-6: Unrestricted Use and Restricted Use Soil Cleanup Objectives.
14. Results shown for AOC-3-SWALL-1 are the higher of this sample or its respective duplicate.

Table 3
IRM AOC-2 and AOC-3 Confirmatory Soil Sample Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Parameter	Protection of Groundwater, Restricted Use Soil Cleanup Objectives	**Part 375 - Restricted Residential Use SCOs**	Restricted Com Soil Cleanup Objectives	AOC-3																	
				AOC-3-WWALL-1 12 feet bgs Results	AOC-3-WWALL-2 14 feet bgs Results	AOC-3-WWALL-3 10 feet bgs Results	AOC-3-NWALL-1 12 feet bgs Results	AOC-3-NWALL-2 14 feet bgs Results	AOC-3-SWALL-1 12 feet bgs Results	AOC-3-SWALL-2 12 feet bgs Results	AOC-3-EWALL-1 12 feet bgs Results	AOC-3-EWALL-2 12 feet bgs Results	AOC-3-BOTT-SW 15 feet bgs Results	AOC-3-BOTT-NW 15 feet bgs Results	AOC-3-BOTT-3 15 feet bgs Results	AOC-3-BOTT-4 15 feet bgs Results	AOC-3-BOTT-5 15 feet bgs Results	AOC-3-BOTT-6 15 feet bgs Results	AOC-3-EWALL-3 12 feet bgs Results	AOC-3-STOCK-S Results	AOC-3-STOCK-N Results
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)																					
Acetone	50	**100,000**	500,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	< 60	< 350	< 5.6	< 5.8	< 5.8	< 5.7
1,1,1-Trichloroethane	680	**100,000**	500,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	< 60	< 350	< 5.6	< 5.8	< 5.8	< 5.7
Tetrachloroethene	1300	**19,000**	150,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	< 60	< 350	< 5.6	< 5.8	< 5.8	< 5.7
Trichloroethene	470	**21,000**	200,000	< 5.6	< 420	< 5.7	11 J	< 5.4	3.1 J	< 6	3 J	< 6.2	< 6.3	< 6.8	< 340	< 60	< 350	< 5.6	8.4	< 5.8	< 5.7
Methylene chloride	50	**100,000**	500,000	< 5.6	< 420	< 5.7	< 15	5.4 B	< 5.9	5.6 BJ	< 6.2	5.7 BJ	< 6.3	< 6.8	< 340	< 60	< 350	< 5.6	< 5.8	< 5.8	< 5.7
Toluene	700	**100,000**	500,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	< 60	< 350	< 5.6	< 5.8	< 5.8	< 5.7
Ethylbenzene	1,000	**41,000**	390,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	87 J	< 60	56 J	< 5.6	< 5.8	< 5.8	< 5.7
m&p-Xylene	1,600	**100,000**	500,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	640	< 60	380	< 5.6	< 5.8	< 5.8	< 5.7
o-Xylene	1,600	**100,000**	500,000	< 5.6	170 J	< 5.7	86	< 5.4	15	< 6	< 6.2	< 6.2	< 6.3	< 6.8	340	290	140 J	7	< 5.8	< 5.8	< 5.7
Isopropylbenzene	NV	**NV**	NV	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	< 60	49 J	< 5.6	< 5.8	< 5.8	< 5.7
n-Propylbenzene	3,900	**100,000**	500,000	< 5.6	90 J	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	310 J	< 60	350	< 5.6	< 5.8	< 5.8	< 5.7
1,3,5-Trimethylbenzene	8,400	**52,000**	190,000	< 5.6	650	< 5.7	270	8.4	8.4	< 6	< 6.2	< 6.2	2.6 J	7.3	1400	980	1400	62	< 5.8	< 5.8	< 5.7
sec-Butylbenzene	11,000	**100,000**	500,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	< 60	71 J	< 5.6	< 5.8	< 5.8	< 5.7
1,2,4-Trimethylbenzene	3,600	**52,000**	190,000	< 5.6	400 J	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	3300	< 60	3500	11	< 5.8	< 5.8	< 5.7
p-Isopropyltoluene	10,000 Note 11	**NV**	NV	< 5.6	< 420	< 5.7	18	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	37 J	< 350	< 5.6	< 5.8	< 5.8	< 5.7
n-Butylbenzene	12,000	**100,000**	NV	< 5.6	93 J	< 5.7	20	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	170 J	44 J	230 J	5.7	< 5.8	< 5.8	< 5.7
Naphthalene	12,000	**100,000**	500,000	< 5.6	230 J	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	3.1 BJ	< 6.8	220 J	< 60	< 350	< 5.6	< 5.8	< 5.8	< 5.7
Total VOCs				0	1633	0	405	13.8	26.5	5.6	3	5.7	5.7	7.3	6467	1351	6176	85.7	8.4	0	0
Semi-Volatile Organic Compounds - EPA Method 8270 TCL (ug/kg)																					
Total SVOCs				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Attachment C for list of all compo
2. Analytical testing completed by Spectrum Analytical., Inc. located in Warwick, RI.
3. ug/kg = part per billion, mg/kg = part per million.
4. NV = no value.
5. "J" qualifier = indicates an estimated value due to either the compound being detected below the report limit, or an es
6. "B" qualifier = compound was also detected in the associated Method Blank.
7. "D" qualifier = compound concentration was obtained from a secondary dilution analysis.
8. < 6 = compound was not detected above its respective reporting limit.
9. Shading indicates value exceeds Restricted Commercial Use Soil Cleanup Objectives.
10. **Bold** indicates value exceeds Restricted Residential Use Soil Cleanup Objectives.
11. NT = Not tested.
12. Underline indicates value exceeds Protection of Groundwater Restricted Use Soil Cleanup Objectives.
13. Soil cleanup objectives (SCOs) are from NYSDEC Part 375, Subpart 375-6: Unrestricted Use and Restricted Use S
14. Results shown for AOC-3-SWALL-1 are the higher of this sample or its respective duplicate.

Table 4
IRM 6,000 Gallon UST Confirmatory Soil Sample Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Parameter	Protection of Groundwater Restricted Use Soil Cleanup Objectives	**Restricted Residential Use Soil Cleanup Objectives**	Restricted Commercial Soil Cleanup Objectives	UST-EXC-N-Wall 5 to 7 feet bgs Results	UST-EXC-S-Wall 5 to 7 feet bgs Results	UST-EXC-E-Wall 5 to 7 feet bgs Results	UST-EXC-W-Wall 5 to 7 feet bgs Results	UST-EXC-Bottom 9 to 9.5 feet bgs Results
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)								
Acetone	50	**100,000**	500,000	<	<	25	<	7.8
Toluene	700	**100,000**	500,000	<	<	1.6J	<	1.4J
1,3,5-Trimethylbenzene	8,400	**52,000**	190,000	<	<	<	<	6.8
1,2,4-Trimethylbenzene	3,600	**52,000**	190,000	<	<	<	<	15
Naphthalene	12,000	**100,000**	500,000	<	<	<	<	2.2J
Total VOCs				<	<	26.6	<	33.2
Semi-Volatile Organic Compounds - EPA Method 8270 TCL (ug/kg)								
Total SVOCs				<	<	<	<	<

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Attachment C for list of all compounds included in analysis.
2. Analytical testing completed by Spectrum Analytical., Inc. located in Warwick, RI.
3. ug/kg = part per billion, mg/kg = part per million.
4. NV = no value.
5. Shading indicates value exceeds Restricted Commercial Use Soil Cleanup Objectives.
6. **Bold** indicates value exceeds Restricted Residential Use Soil Cleanup Objectives.
7. Underline indicates value exceeds Protection of Groundwater Restricted Use Soil Cleanup Objectives.
8. Soil cleanup objectives (SCOs) are from NYSDEC Part 375, Subpart 375-6: Unrestricted Use and Restricted Use Soil Cleanup Objectives.

Table 5
IRM Excavation Groundwater Sample Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Parameter	Class GA Criteria	AOC-1-GW 11/09/2011 Result	EXC-2-GW 10/25/2011 Result	AOC-3-GW 08/14/2013 Result	AOC-3-GW-2 08/22/2013 Result	GW-AOC-3-NORTH 06/10/2014 Result
Volatile Organic Compounds - EPA Method 8260 TCL (ug/L)						
1,1-Dichloroethane	0.6	< 1	< 5	0.65 J	< 1	< 1
Acetone	50	< 1	< 25	< 5	5.2	5.9
1,1,1-Trichloroethane	5	4.9	2.6 J	2.7	0.66 J	< 1
Trichloroethene	5	18	3.5 J	6.9	9.9	2.7
Benzene	1	6.5	< 5	< 1	< 1	< 1
Toluene	5	51	950	2.2	15	3.3
Tetrachloroethene	5	2.3	<	0.79 J	0.78 J	< 1
Ethylbenzene	5	14	100	31	89	2.2
m,p-xylene	5	74	680	100	370	4.4
o-Xylene	5	41	300	29	110	2.5
Isopropylbenzene	5	1.1	6.4	6.2	30	0.82 J
n-propylbenzene	5	5	< 5	33	120 D	2.5
1,3,5-Trimethylbenzene	5	20	4 J	62	1,400 D	14
1,2,4-Trimethylbenzene	5	29	7.1	220 D	4,000 D	33
sec-butylbenzene	5	< 1	< 5	2.6	< 1	1.3
n-butylbenzene	5	2.5	< 5	5	< 1	1.3
4-Isopropyltoluene	5	< 1	< 1	< 1	< 1	2.9
Naphthalene	10	1.9	< 5	5.4	100	< 1
Total VOCs		271.2	2053.6	507.44	6,250.54	76.82
Semi-Volatile Organic Compounds - EPA Method 8270 Base Neutrals (ug/L)						
		NT	<	NT	NT	NT

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Appendix C for list of all compounds included in analysis.
2. Analytical testing completed by Spectrum Analytical., Inc. located in Warwick, RI.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), June 1998.
4. ug/L = part per billion (ppb).
5. "J" qualifier = indicates an estimated value due to either the compound being detected below the report limit, or an estimated concentration.
6. "B" qualifier = compound was also detected in the associated Method Blank.
7. "D" qualifier = result shown is the product of a dilution analysis.
8. < 1 indicates compound was not detected above its repective reporting limit.
9. Shading indicates exceedence of Class GA Criteria.
10. NT = Not tested.

Table 6
Electron Donor Compound Injection Pilot Study
Groundwater Analytical Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	EW-1.25 6/25/2013	Q	EW-1.25 10/16/2013	Q	EW-1.25 6/10/2014	Q	SP-32 10/3/2012	Q	SP-32 10/17/2013	Q	SP-32 6/10/2014	Q	SP-37 10/5/2012	Q	SP-37 10/17/2013	Q	SP-37 6/10/2014	Q	SP-38 10/4/2012	Q	SP-38 10/17/2013	Q	SP-38 6/10/2014	Q
Volatile Organic Compounds - EPA Method SW-846, 8260B (ug/L)																									
Acetone	50	<		<		<		<		240	D	<		<		<		<		<		<		<	
Methylene Chloride	5	<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	0.77	J	<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	4.1		4.1		2.9		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	4.6		5		2.4		<		<		<		<		<		<		<		<		<	
2-Butanone	50	<		<		<		<		45		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	31		32		23		<		26		11		1.8		7.3		0.99	J	<		1.5		1.2	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<		2.4		<		<	
Tetrachloroethene	5	3.3		3.8		3.6		2.1		<		<		9.6		24		13		5		<		5.2	
Trichloroethene	5	51		59		41		120		3.4		6.4		13		20		7.2		17		7.8		19	
Total VOCs	2	94.77		103.9		72.9		122.1		314.4		17.4		24.4		51.3		27.2		24.4		9.3		25.4	
Field Parameters																									
Temperature (Deg. C)	NV	13		13.5		10.4		13.2		16.5		13.1		13.5		17		11.9		13.1		15.2		11.6	
Specific Conductance (mS/cm)	NV	0.7		0.68		0.7		0.418		0.65		0.392		0.452		0.535		0.305		0.437		0.412		0.437	
Dissolved Oxygen (mg/L)	NV	0.05		0.18		0.06		4.92		0.18		0.12		0.28		0.2		0.58		3.25		2.88		4.65	
Oxygen Reduction Potential (mv)	NV	-88.5		-99.3		-91.2		50.3		-95.3		-21.9		-122.4		74.8		107.7		31.7		103.5		136	
pH (std. units)	NV	7.35		6.85		6.78		7.23		6.45		6.48		6.6		6.39		6.28		6.81		6.72		6.72	
Turbidity (NTUs)	NV	9.12		3.31		11.71		35		6.76		4.95		2.5		9.35		12.5		27.4		2.12		19.2	
Inorganics (ug/L)																									
Iron	300	NS		1,000		14,000		NS		3,480		16,000		NS		61.7	B	900		<		<		1,500	
Manganese	NV	NS		1,300		1,600		NS		24,600		19,000		NS		336		150		5,100		41.1	B	180	
Miscellaneous Water Quality Parameters																									
Methane (ug/L)	NV	NS		1,000		170		NS		120		660		NS		26		2.5		<		20		1.1	
Ethane (ug/L)	NV	NS		<		<		NS		<		<		NS		<		<		NM		<		<	
Ethene (ug/L)	NV	NS		1.7		<		NS		1.7		<		NS		<		<		NM		<		<	
Total Organic Carbon (mg/L)	NV	NS		<		<		NS		51		<		NS		4	J	2.8	J	<		<		<	
Chloride (mg/L)	NV	NS		66	B	69		NS		5	B	3.1		NS		12	B	3.8		31		40	B	34	
Nitrate (mg/L)	NV	NS		<		<		NS		<		<		NS		4.8		5.2		4.7		1.4		3.3	
Nitrite (mg/L)	NV	NS		<		<		NS		<		<		NS		<		<						<	
Sulfate (mg/L)	NV	NS		7.6		7.4	B	NS		4.9	J	14	B	NS		36		24	B	23		11		13	B

Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation;
   * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value
9. Shaded concentrations exceed Class GA criteria.

Table 6
Electron Donor Compound Injection Pilot Study
Groundwater Analytical Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	SP-43 10/4/2012	Q	SP-43 10/17/2013	Q	SP-43 6/10/2014	Q	SP-45 10/4/2012	Q	SP-45 10/17/2013	Q	SP-45 6/10/2014	Q
Volatile Organic Compounds - EPA Method SW-8													
Acetone	50	<		53		<		<		<		<	
Methylene Chloride	5	<		<		<		3.2	DJ	<		<	
Carbon disulfide	NV	<		1.3		<				<		<	
Chloromethane	NV	<		<		<				<		<	
1,1-Dichloroethane	5	<		<		<				<		<	
Vinyl chloride	2	<		<		<				<		<	
2-Butanone	50	<		84		<				<		<	
cis-1,2-Dichloroethene	5	<		5.4		3.9		6.8		1.1		1.9	
1,1,1-Trichloroethane	5	<		<		<				<		<	
Tetrachloroethene	5	93		24		14		260	D	69		130	
Trichloroethene	5	5.2		2.6		<		13		3.6		6.4	
Total VOCs	2	98.2		170.3		17.9		283.0		73.7		138.3	
Field Parameters													
Temperature (Deg. C)	NV	14.1		18.4		13		14.6		17.8		16.5	
Specific Conductance (mS/cm)	NV	0.445		0.513		0.304		0.543		0.363		0.391	
Dissolved Oxygen (mg/L)	NV	1.48		0.22		0.23		1.07		5.21		3.02	
Oxygen Reduction Potential (mv)	NV	44.2		-39.3		149		-29.5		88.3		143.1	
pH (std. units)	NV	6.55		5.88		6.13		6.48		6.83		6.71	
Turbidity (NTUs)	NV	39.8		4.04		18		3.95		2.3		3.17	
Inorganics (ug/L)													
Iron	300	NS		6,150		7,100		NS		32.1	B	170	J
Manganese	NV	NS		5,510		1,600		NS		<		<	
Miscellaneous Water Quality Parameters													
Methane (ug/L)	NV	NS		16		12		NS		14		1.1	
Ethane (ug/L)	NV	NS		2.4		<		NS		<		<	
Ethene (ug/L)	NV	NS		3.7		<		NS		<		<	
Total Organic Carbon (mg/L)	NV	NS		80		<		NS		<		<	
Chloride (mg/L)	NV	NS		6.3	B	2.2		NS		5.1	B	4.2	
Nitrate (mg/L)	NV	NS		0.36		8.30		NS		6		5.2	
Nitrite (mg/L)	NV	NS		<		0.042	J	NS		<		<	
Sulfate (mg/L)	NV	NS		12		25	B	NS		39		33	B

Notes:
1. Only compounds detected in one or more of the gr
2. "<" indicates compound was not detected above th
3. Analytical testing completed by TestAmerica.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in
   * - LCS or LCSD exceeds the control limits; D = va
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promu
   Standards and Guidance Values and Groundwate
8. NV = no value
9. Shaded concentrations exceed Class GA criteria.

Table 7
SRI Analytical Testing Program Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Location	Sample Depth (ft bgs)	VOCs TCL Method 8260B	SVOCs Method 8270C BN	TAL Metals Method 3050/6010/7471	PCBs Method 8082	Pesticides Method 8081B	Natural Attenuation Parameters	VOCs Method TO-15
Surface Soil Samples								
SS-1	0-0.17	X	X	X	X	X		
SS-2	0-0.17	X	X	X	X	X		
SS-3	0-0.17	X	X	X	X	X		
SS-4	0-0.17	X	X	X	X	X		
Subsurface Soil Samples - Test Pits								
TP-11	8-10	X						
TP-16	10-11.5	X						
TP-17	8-10	X						
TP-18	2.3		X	X	X			
Subsurface Soil Samples - Soil Probes								
SP-30	10-12	X						
SP-31	8-10	X						
SP-32	10-12	X						
SP-33	2-4	X						
SP-34	4-6	X						
SP-35	14-16	X						
SP-36	6-8	X						
SP-37	2-4	X						
SP-37	12-14	X						
SP-38	6-8	X						
SP-39	4-6	X						
SP-40	2-4	X						
SP-41	12-14	X						
SP-42	6-8	X						
SP-43	12-14	X						
SP-44	2-4	X						
SP-45	4-6	X						
Groundwater Samples								
TP-10	NA	X						
TP-11	NA	X					X	X
TP-13	NA	X						
TP-15	NA	X					X	X
SP-32	NA	X						
SP-35	NA	X						
SP-37	NA	X						
SP-38	NA	X					X	X
SP-39	NA	X					X	X
SP-40	NA	X					X	X
SP-42	NA	X					X	X
SP-43	NA	X						
SP-45	NA	X						
SP-47	NA	X						
EW-2.5	NA						X	X
MW-1S	NA	X						
MW-1I	NA	X					X	X
MW-1D	NA	X					X	X
MW-4I	NA	X					X	X
MW-5I	NA	X					X	X
Soil Vapor Intrusion Samples								
DG-1IA-02152012	NA							X
DG-1SS-02152012	NA							X
DG-2IA-02152012	NA							X
DG-2SS-02152012	NA							X
DG-3IA-02152012	NA							X
DG-3SS-02152012	NA							X
DG-4IA-02162012	NA							X
DG-4SS02162012	NA							X
UG-1IA-02162012	NA							X
UG-1SS-02162012	NA							X
UG-2IA002232012	NA							X
UG-2SS-02232012	NA							X
UG-3BF-03142012	NA							X
UG-3FF-03142012	NA							X
UG-4IA-03142012	NA							X
UG-4SS-03142012	NA							X
UG-5IA-04022012	NA							X
UG-5SS-04022012	NA							X
BK-1AO-02152012	NA							X
BK-2AO-02162012	NA							X
BK-3AO-03142012	NA							X
BK-4AO-04022012	NA							X

Notes:
1. NA = not applicable.
2. ft bgs = feet below ground surface
3. VOCs = Volatile Organic Compounds
4. SVOCs = Semi-Volatile Organic Compounds
5. TCL = Total Compound List
6. TAL = Total Analyte List
7. PCB's = Polychlorinated Biphynels
8. DG = downgradient sample location
9. UG = upgradient sample location
10. IA = indoor air sample
11. SS = subslab air sample
12. BF = basement air sample
13. FF = first floor air sample
14. BK = background sample location
15. AO = ambient air sample

Table 8
SRI Test Pit Soil Sample Analytical Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Depth (ft bgs) Sample Date	Part 375 Unrestricted SCOs	Part 375 Restricted Residential SCOs	Part 375 Commercial SCOs	TP-11 8-10 9/25/2012	Q	TP-16 10-11.5 9/26/2012	Q	TP-17 8-10 9/26/2012	Q	TP-18 2.3 9/26/2012	Q
Volatile Organic Compounds - Method 8260 TCL (ug/kg)											
Trichloroethene	**470**	21,000	200,000	56				11		NT	
Semi-Volatile Organic Componds - EPA Method 8270 Base Neutrals (ug/kg)											
Bis (2-ethylhexyl) phthalate	**NV**	NV	NV	NT		NT		NT		110	J
Phenanthrene	**100,000**	100,000	500,000	NT		NT		NT		1,000	
PCB - EPA Method 8082 (ug/kg)											
Metals - EPA Method 6010/7471 (mg/kg)											
Aluminum	**NV**	NV	NV	NT		NT		NT		13,000	*
Antimony	**NV**	NV	NV	NT		NT		NT			
Arsenic	**13**	16	16	NT		NT		NT		**14.6**	
Barium	**350**	400	400	NT		NT		NT		153	*
Beryllium	**7.2**	72	590	NT		NT		NT		0.58	
Cadmium	**2.5**	4.3	9.3	NT		NT		NT		0.46	
Calcium	**NV**	NV	NV	NT		NT		NT		21,800	*J
Chromium	**30**	180	1,500	NT		NT		NT		21.3	*J
Cobalt	**NV**	NV	NV	NT		NT		NT		11.7	
Copper	**50**	270	270	NT		NT		NT		30	*J
Iron	**NV**	NV	NV	NT		NT		NT		28,800	
Lead	**63**	400	1,000	NT		NT		NT		23.5	*
Magnesium	**NV**	NV	NV	NT		NT		NT		4,740	*
Manganese	**1,600**	2,000	10,000	NT		NT		NT		1,060	
Mercury	**0.18**	0.81	2.8	NT		NT		NT		0.025	
Nickel	**30**	310	310	NT		NT		NT		24.6	*
Potassium	**NV**	NV	NV	NT		NT		NT		902	*
Selenium	**3.9**	180	1,500	NT		NT		NT		1.7	
Silver	**2**	180	1,500	NT		NT		NT			
Sodium	**NV**	NV	NV	NT		NT		NT			
Thallium	**NV**	NV	NV	NT		NT		NT		1.2	
Vanadium	**NV**	NV	NV	NT		NT		NT		18	*
Zinc	**109**	10,000	10,000	NT		NT		NT		102	*

NOTES: Notes:
1. Only compounds detected in one or more soil samples are presented in this table.
2. Blank indicates compound was not detected.
3. Analytical testing completed by Spectrum Analytical, Inc.
4. Q = laboratory qualifier. See Appendix F for qualifier definitions.
5. ug/kg = parts per billion, mg/kg = parts per million.
6. Part 375 Residential Soil Cleanup Objectives (SCOs) are from NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006.
7. NV = no value; NS = not specified; NT = not tested; ND = non detect.
8. **BOLD** Concentrations exceed their Part 375 Unrestricted SCOs.
9. Shaded concentrations exceed their respective Part 375 Residential SCOs.

Table 9
SRI Soil Probe Soil Sample Analytical Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location		Part 375		SP-30		SP-31		SP-32		SP-33		SP-34		SP-35		SP-36		SP-37		SP-37		SP-38		SP-39		SP-40		SP-41		SP-42		SP-43		SP-44		SP-45	
Sample Depth (ft bgs)	Part 375	Restricted	Part 375	10-12		8-10		10-12		2-4		4-6		0.5-2		6-8		2-4		12-14		6-8		4-6		2-4		12-14		6-8		12-14		2-4		4-6	
Sample Date	Unrestricted	Residential	Commercial	9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/28/2012		9/28/2012		9/28/2012		9/28/2012		10/1/2012		10/1/2012		10/1/2012	
	SCOs	SCOs	SCOs		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)																																					
Acetone	**50**	100,000	500,000											12	J									9	J					7.1	J						
cis-1,2-Dichloroethene	**250**	100,000	500,000																											3.5	J						
Methylene Chloride	**50**	100,000	500,000															2.4	J																		
Tetrachloroethene	**1,300**	19,000	150,000															4.3	J	5.7	J	22										60				19	
1,1,1-Trichloroethane	**680**	100,000	500,000																			1.7	J														
Trichloroethene	**470**	21,000	200,000																	2.4	J	31								120						20	

NOTES:
1. Only compounds detected in one or more soil samples are presented in this table.
2. Blank indicates compound was not detected.
3. Analytical testing completed by Spectrum Analytical, Inc.
4. Results presented for SP-33, 2-4 ft is the higher of this sample and its respective duplicate.
5. Q = laboratory qualifier. See Appendix F for qualifier definitions.
6. ug/kg = parts per billion, mg/kg = parts per million.
7. Part 375 Residential Soil Cleanup Objectives (SCOs) are from NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006.
8. NV = no value; NS = not specified; NT = not tested; ND = non detect.
9. **BOLD** concentrations exceed their Part 375 Unrestricted SCOs.
10. Shaded concentrations exceed their respective Part 375 Residential SCOs.

Table 10
SRI Surface Soil Sample Analytical Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Depth (ft bgs) Sample Date	Part 375 Unrestricted SCOs	Part 375 Restricted Residential SCOs	Part 375 Commercial SCOs	SS-1 0-2" 9/27/2012	Q	SS-2 0-2" 9/27/2012	Q	SS-3 0-2" 9/27/2012	Q	SS-4 0-2" 9/27/2012	Q
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)											
Semi-Volatile Organic Compounds - EPA Method 8270 Base Neutrals (ug/kg)											
Benzo (a) anthracene	**1,000**	1,000	5,600			250	J	370			
Benzo (a) pyrene	**1,000**	1,000	1,000			250	J	360			
Benzo (b) fluoranthene	**1,000**	1,000	5,600			400		550		110	J
Benzo (g,h,i) perylene	**100,000**	100,000	500,000			200	J	300	J		
Benzo (k) fluoranthene	**800**	3,900	56,000			150	J	230	J		
Bis (2-ethylhexyl) phthalate	**NV**	NV	NV	82	J	120	J	140	J	170	J
Butylbenzylphthalate	**NV**	NV	NV			530					
Chrysene	**1,000**	3,900	56,000			310	J	490		93	J
Dibenz (a,h) anthracene	**330**	330	560					75	J		
Fluoranthene	**100,000**	100,000	500,000			660		820		150	J
Indeno (1,2,3-cd) pyrene	**500**	500	5,600			200	J	280	J		
Phenanthrene	**100,000**	100,000	500,000			420		330			
Pyrene	**100,000**	100,000	500,000			490		670		120	J
PCBs - EPA Method 8082 (ug/kg)											
Pesticides - EPA Method 8081 (ug/kg)											
Metals - EPA Method 6010/7471 (mg/kg)											
Aluminum	**NV**	NV	NV	6,000		8,360		5,990		14,200	
Arsenic	**13**	16	16	6.3		7.8		5.6		9.5	
Barium	**350**	400	400	52.8	EJ	92.8	EJ	59.7	EJ	165	EJ
Beryllium	**7.2**	72	590	0.25	B	0.29		0.2	B	0.61	
Cadmium	**2.5**	4.3	9.3	0.24	B	0.44		0.44		1.1	
Calcium	**NV**	NV	NV	34,100	*	14,700		19,000		2,970	
Chromium	**30**	180	1,500	14.4	EJ	14.8	J	10.3	J	22.7	J
Cobalt	**NV**	NV	NV	5.1	EJ	6.6	EJ	4.8	EJ	10.3	EJ
Copper	**50**	270	270	26.2		37.9		24.3		29.3	
Iron	**NV**	NV	NV	13,700	EJ	18,400	EJ	15,200	EJ	24,300	EJ
Lead	**63**	400	1,000	48.7	NEJ	26.1	EJ	14.1	EJ	20.8	EJ
Magnesium	**NV**	NV	NV	5,540	EJ	5,510	EJ	5,300	EJ	3,680	EJ
Manganese	**1,600**	2,000	10,000	510	EJ	606	EJ	429	EJ	591	EJ
Mercury	**0.18**	0.81	2.8	0.08		0.13		0.0069	B	0.15	
Nickel	**30**	310	310	12.3	EJ	17.8	EJ	13.3	EJ	24.3	EJ
Potassium	**NV**	NV	NV	465	EJ	816	J	643	J	1,250	J
Selenium	**3.9**	180	1,500	2.1		2.7		2		3.6	
Sodium	**NV**	NV	NV								
Vanadium	**NV**	NV	NV	7.8	EJ	10.9	J	8.2	J	20.6	J
Zinc	**109**	10,000	10,000	80.9	EJ	**156**	EJ	107	EJ	**255**	EJ

NOTES:
1. Only compounds detected in one or more soil samples are presented in this table.
2. Blank indicates compound was not detected.
3. Analytical testing completed by Spectrum Analytical, Inc.
4. Results presented for SS-2 are the higher of this sample and its respective duplicate.
5. Q = laboratory qualifier. See Appendix F for qualifier definitions.
6. ug/kg = parts per billion, mg/kg = parts per million.
7. Part 375 Residential Soil Cleanup Objectives (SCOs) are from NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006.
8. NV = no value; NS = not specified; NT = not tested; ND = non detect.
9. **BOLD** concentrations exceed their Part 375 Unrestricted SCOs.
10. Shaded concentrations exceed their Part 375 Residential SCOs.

Table 11
SRI Groundwater Sample Analytical Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location		TP-10		TP-11		TP-13		TP-15		SP-32		SP-35		SP-37		SP-38		SP-39		SP-40		SP-42		SP-43		SP-45		SP-47		MW-1S		MW-1I		MW-1D		MW-4I		MW-5I	
Sample Depth (ft bgs)	NYSDEC																																						
Sample Date	Class GA Criteria	10/4/2012		10/4/2012		10/4/2012		10/4/2012		10/3/2012		10/4/2012		10/5/2012		10/4/2012		10/4/2012		10/5/2012		10/5/2012		10/4/2012		10/4/2012		10/4/2012		10/31/2012		10/5/2012		10/5/2012		10/31/2012		10/31/2012	
			Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
Volatile Organic Compounds - EPA Method 8260 TCL (ug/L)																																							
1,1-Dichloroethane	**5**																					2.1								0.66	J	2.6							
1,1-Dichloroethene	**5**					0.54	J																																
cis-1,2-Dichloroethene	**5**			**22**										1.8				2.3				1.6				**6.8**	D			1		3.1				0.62	J		
trans-1,2-Dichloroethene	**5**																					1.3																	
Methylene Chloride	**5**																									3.2	DJ												
Tetrachloroethene	**5**	2.3		1.1		2.6				2.1				**9.6**		5		**79**		4.1		0.74	J	**93**		**260**	D							0.65	J				
1,1,1-Trichloroethane	**5**	4.8				**5.4**										2.4		2		3.3																			
Trichloroethene	**5**	**12**		**110**						**120**		4.9		**13**		**17**		**60**		**19**		**8.7**		**5.2**		**13**										1.2		0.75	J
Vinyl chloride	**2**													0.6	J																								

Notes:

1. Compounds detected in one or more sample are presented on this table. Refer to Appendix C for list of all compounds included in analysis.
2. Analytical testing completed by Spectrum Analytical, Inc.
3. NYSDEC Groundwater Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, errata January 1999 and amended April 2000 (Class GA).
4. ug/L = part per billion (ppb).
5. Blank indicates compound was not detected above method detection limits.
6. "B" qualifier = Analyte detected in the associated Method Blank.
6. J = laboratory qualifier. See Appendix F for qualifier definitions.
7. Results presented for SP-38 is the higher of this sample and its respective duplicate.
8. **Bold** and shaded concentrations exceed their Class GA criteria.

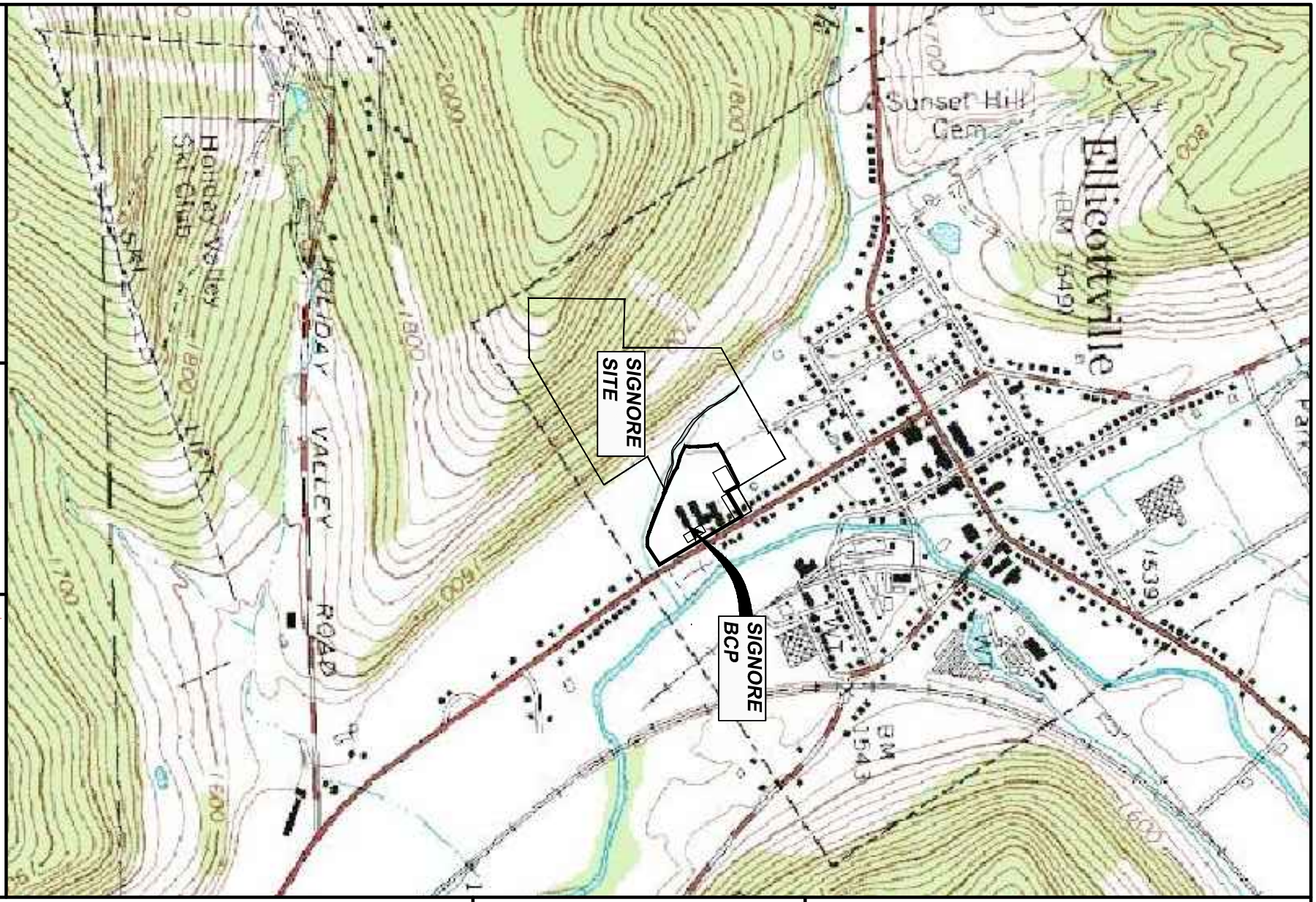
Table 12
SRI Soil Vapor Intrusion Air Analytical Testing Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Associated Background	Samples Associated with Background-1							Samples Associated with Background-2					No Background Sample		Samples Associated with Background-3				Samples Associated with Background-4			Samples Associated with Background-4		
Property Address	House 6		House 8		House 7		Background-1	House 9		House 5		Background-2	House 4		House 2		House 3				Background-3	House 1	41 Jefferson	Background-4
Sample ID	DG-1IA-02152012	DG-1SS-02152012	DG-2IA-02152012	DG-2SS-02152012	DG-3IA-02152012	DG-3SS-02152012	BK-1AO-02152012	DG-4IA-02162012	DG-4SS-02162012	UG-1IA-02162012	UG-1SS-02162012	BK-2AO-02162012	UG-2IA-02232012	UG-2SS-02232012	UG-3BF-03142012	UG-3FF-03142012	UG-4IA-03142012	UF-4SS-03142012	UG-4IA-04022012	UF-4SS-04022012	BK-3AO-03142012	UG-5IA-04022012	UG-5SS-04022012	BK-3AO-04022012
Volatile Organic Compounds via USEPA Method TO-15 (ug/m^3)																								
1,1,1-Trichloroethane	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	11	<1.1	<1.1	<1.1	<1.1	<1.1	0.89 J	0.89 J	<1.1	1.1	<1.1	1.2	<1.1	<1.1	<1.1	<1.1
1,1-Dichloroethene	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	0.60 J	0.6 NJ	0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
1,1,2-TrifluoroTrichloroethane											1.2J	1.2 J			1.7	1.7	1.6	1.5 J			1.6			
1,2,4-Trimethylbenzene				1.2					1.3		1.3			0.75 J	4.5		0.75 J	0.9 J			0.85 J			
1,2-Dichloro-1,1,2,2-tetrafluoroethane															1.1 J	1.1 J								
1,2-Dichloroethane				1.2 NJ		1.4			1.6		1.6			1.1	0.7 J	0.7 NJ				0.41 J				
1,3,5-Trimethylbenzene		1.5	0.80 J	1.7			0.75 J	3.4	2.1	1.2	1.9	0.95 J	0.55 J	1.7	12	3.7	0.95 J	1.1		4.5	1.2	2.4	1.6	
1,3-butadiene																								
1,3-Dichlorobenzene																								
1,4-Dichlorobenzene											1.6			1.5										
1,4-Dioxane										0.55 J					0.7 J	1.3								
2-Butanone (MEK)	0.87	2.6	4.9	8.4	1.2	11	1.2	3.4	11	1.9	12	1.1	18	18	2.3	2.1	1.6	3.1		5.5	1.7	1.5	8.9	0.75
4-ethyltoluene		1.3		1.6		1.7		3.6	2.1	1.2	1.9	0.90 J	0.55 J	1.6	15	4.4	0.95 J	1.0		2.6 J	1.2			
4-Methyl-2-Pentanone		0.87 J				12 J			15		15		0.92 J			1.0 NJ	0.79 J	0.92		5.7 NJ				
Acetone		95	16	55		58		11	59	23	88		1,000	730	64	29		91	5.0	90			53	19
Allyl chloride																								
Benzene	0.75	0.78	0.97	1.3	0.84	1.3	0.91	3.4	1.9	1.1	2.0	0.94	0.78	2.3	0.88	0.97	1.0	1.2	0.39 J	1.1	1.4	2.4	6.9	0.49 J
Bromomethane															0.71 J	0.7 J	0.59 J							
Carbon disulfide											1.7			0.44 J	0.63	0.63	0.51 NJ			0.44 J			4.8	
Carbon tetrachloride	<0.26	<1.3	<0.26	<1.3	<0.26	<1.3	<0.26	<0.26	1.1 J	0.96	1.1 J	1.1	<0.26	<1.3	1.5	1.4	1.3	1.3	<0.26	<1.3	1.3	<0.26	0.77 NJ	<0.26
Chloroethane									1.0						0.4									
Chloromethane	1.4	0.57	1.8	0.99	1.2	0.97	1.2			2.1	1.3	1.3				1.8	2.1		0.94		1.6			0.97
cis-1,2-Dichloroethene	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	0.60 J	<0.81	<0.81	<0.81	0.60 J	0.69 J	<0.81	<0.81	<0.81	<0.81	0.85	<0.81	<0.81	<0.81
Cyclohexane								1.9			1.8		0.73	2.1										
Ethylbenzene		0.79 J	0.66 NJ	3.5		4.0		2.2	4.9	0.97	4.3		41	47	19	5.8		4.5		17		2 NJ	4 NJ	0.84 NJ
Freon 11	1.4	1.3	1.4	1.3	1.8	1.4	1.4	1.7	1.4	1.7	1.7	1.7	1.3	1.3	2.2 J	2.3 J	2.2 J	2.1	1.5	1.1	2.3	4.1	2.9	1.3
Freon 113											1 J	1 J			1.7	1.7	1.6	1 J			1.6			
Freon 114															1 J	1 J								
Freon 12	2.5	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.7	3.0	2.9	2.8	2.4	2.5	3.3	3.4	3.3	3.4	2.7	2.9	3.3	2.8	3.1	2.9
Hexachlorobutadiene															2.2 NJ	2.3 NJ	1.7 J	2.3			2 J			
Hexane		2.1						13		2.4			24	19				11					46	
Isopropanol						7.8	10						9.0								11			
m&p-Xylene				10		11		8.8	14		12		87	98	74	22	1.5 J	9.2		36	2.3	7.3	12	1.9
Methylene chloride		2.6		1.4		1.4			1.4		1.5	0.64 J			**320**	**150**								
n-Heptane		2.9	2.5 NJ											4.6	2.1 J	1.5 J		6.4 J		9.6	1.2 J		48	
o-Xylene		1.3	0.75 J	3.2		3.5		3.5	4.3	1.0	3.8	0.71 J	13.0	17	15	4.7	0.79 J	2.3		5.3	1.0	2.2	2.9	
Styrene				3.8		4.5			5.4		4.8			4.9		0.78 NJ				2.1			2.9	
Tetrachloroethene	<1.4	3.4	<1.4	<1.4	<1.4	1.6	<1.4	<1.4	1.9	<1.4	1.9	1.8	1.1 J	2.8	7.7	4.1	1.2 J	**660**	<1.4	7.9	12	0.76 J	0.76 J	<1.4
Tetrahydrofuran				5.4					5.6		5.2													
Toluene	1.0	5.9	18	9.9	1.3	11	1.1	17	14 B	6.2 B	12 B		130	130	9.7	4.8	1.3	9.3	0.92	63	2.0	14	14	2.1
trans-1,2-Dichloroethene															0.64 NJ	0.64 NJ		0.6 NJ						
Vinyl acetate								0.72 J																
Trichloroethene	<0.22	<1.1	<0.22	<1.1	<0.22	<1.1	<0.22	<0.22	1.3	<0.22	<1.1	<0.22	<0.22	<1.1	<0.22	0.82	<0.22	<1.7	<0.22	<1.1	<0.22	<0.22	<1.1	<0.22
Vinyl chloride	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.1	<0.52	<0.10	<0.52	<0.52	0.42 NJ	0.42 NJ	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52

Notes
1. Compounds detected in one or more samples or those assigned to the NYSDOH soil vapor intrusion decision matrices are presented on this table.
2. Analytical testing completed by Enalytic, LLC laboratory in Syracuse, New York.
3. Analytical results were compared to the matrices in the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in New York State, dated October 2006.
4. Samples with IA designation are indoor air samples, SS are sub-slab samples, BK are background samples, BF are basement floor samples, and FF are first floor samples.
5. ug/m^3 = microgram per cubic meter.
6. Samples collected were for an approximate 24-hour sample duration.
7. Green shading indicates comounds are assigned to the NYSDOH soil vapor intrusion guidance Matrix 1 and Yellow shading indicates comounds are assigned Matrix 2.
8. J = estimated concentration detected less than the practical qualification limit (PQL).
9. B = compound was detected in the method blank.
10. NJ = The detection is tenative and estimated in value. There is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
11. Bold indicates compound exceeds NYSDOH soil vapor intrusion guidance matrices or indoor air guidance values.

FIGURES

© 2014 GZA GeoEnvironmental of New York GZA–T:\PROJECTS\56300s\56367.5 Signor Ellicottville\Revised SRI–IRM–AA Report\Figure 1 Locus Plan.dwg [Figure 1] January 10, 2014 – 1:59pm daniel.wulf



NOTE:
BASE MAP ADAPTED FROM U.S.G.S. TOPOGRAPHIC MAPS DOWNLOADED FROM TERRASERVER.MICROSOFT.COM

REVISED SRI/IRM/AA REPORT AND REMEDIAL ACTION PLAN

FORMER SIGNORE FACILITY
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM
SITE NO. C905034

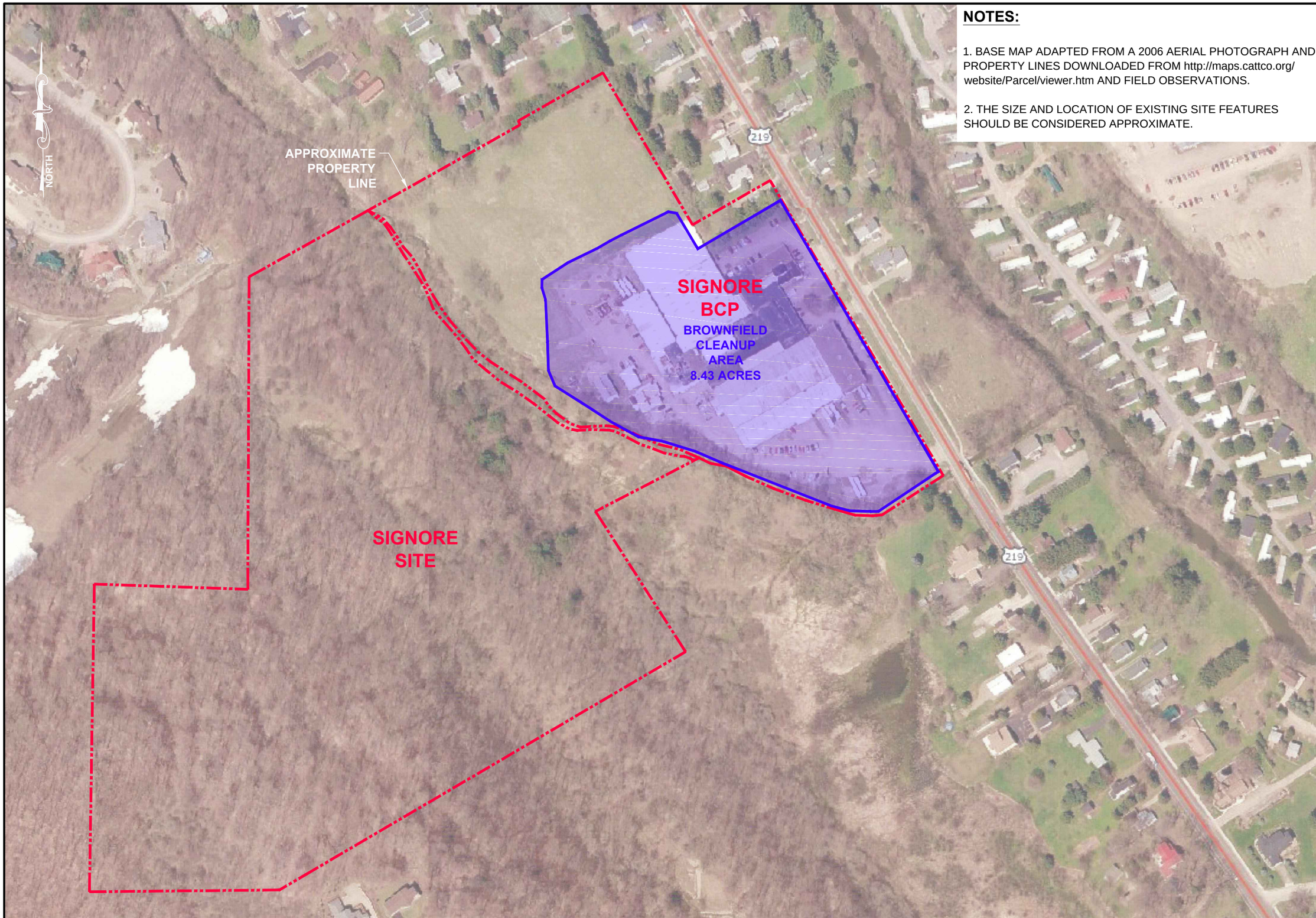
LOCUS PLAN

SCALE IN FEET
0 500 1000 2000

DRAWN BY: **DEW**
DATE: **JANUARY 2014**

GZA GeoEnvironmental of New York

PROJECT No. **21.0056367.50**
FIGURE No. **1**



NOTES:

1. BASE MAP ADAPTED FROM A 2006 AERIAL PHOTOGRAPH AND PROPERTY LINES DOWNLOADED FROM http://maps.cattco.org/website/Parcel/viewer.htm AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

DRAWN BY: **DEW**

DATE: **JANUARY 2014**

GZA GeoEnvironmental of New York

APPROXIMATE SCALE IN FEET

0 100 200 400

REVISED SRI//IRM/AA REPORT AND REMEDIAL ACTION PLAN

FORMER SIGNORE FACILITY

ELLICOTTVILLE, NEW YORK

BROWNFIELD CLEANUP PROGRAM

SITE NO. C905034

SITE LIMIT PLAN

PROJECT No.

21.0056367.50

FIGURE No.

2

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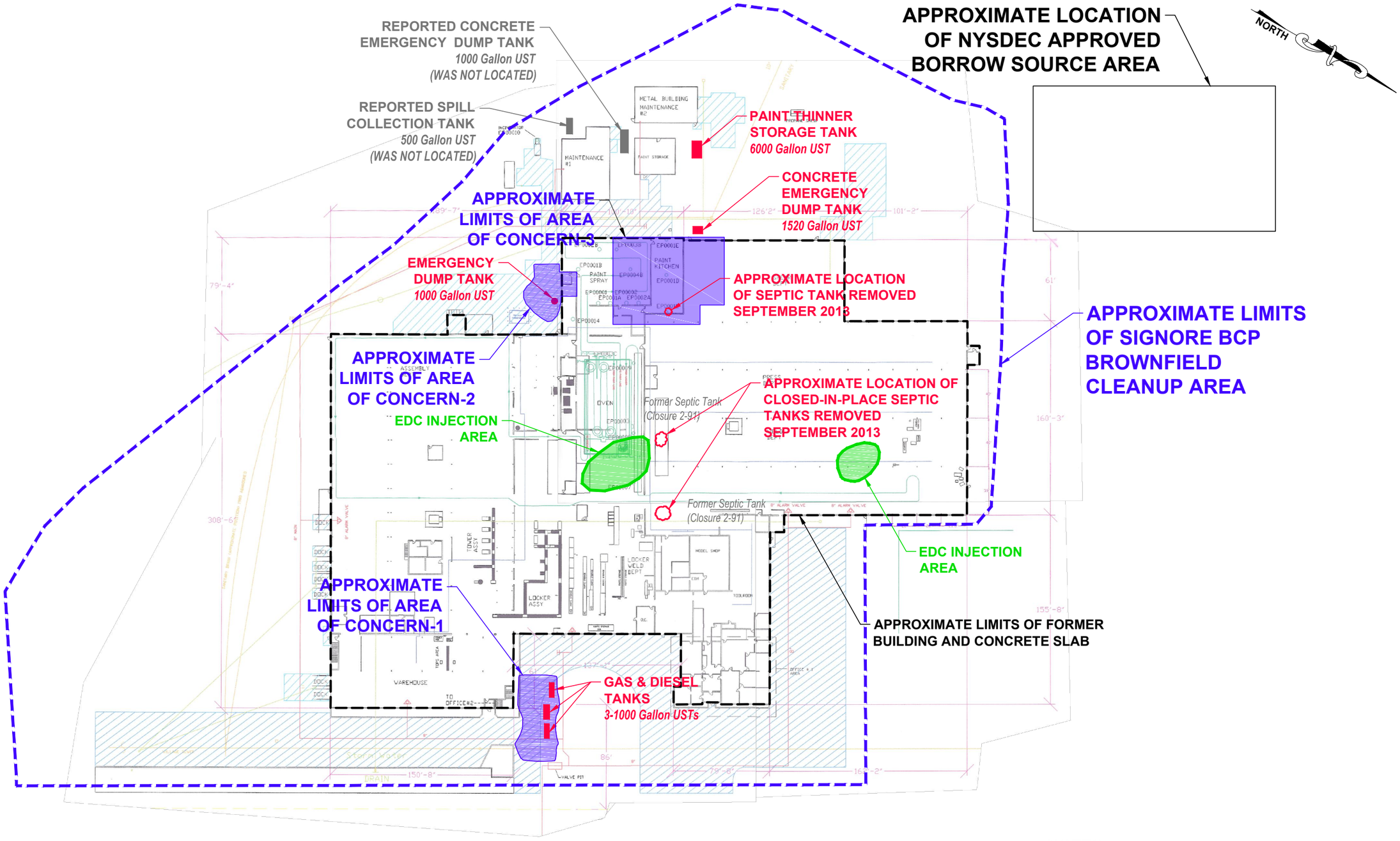
GZA-T:\PROJECTS\56300s\56367.5 Signor Ellicottville\Revised SRI-IRM-AA Report\Figure 2 Site Limit Plan.dwg [Figure 2] January 10, 2014 - 2:00pm daniel.wulf



NOTES:

1. BASE MAP ADAPTED FROM A SITE INVESTIGATION PLAN PROVIDED BY THE CLIENT AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

DRAWN BY: DEW

DATE: JANUARY 2014

GZA GeoEnvironmental of New York

APPROXIMATE SCALE IN FEET

0 40 80 160

REVISED SRI/IRM/AA REPORT AND REMEDIAL ACTION PLAN

FORMER SIGNORE FACILITY

ELLICOTTVILLE, NEW YORK

BROWNFIELD CLEANUP PROGRAM

SITE NO. C905034

IRM ACTIVITIES PLAN

PROJECT No.

21.0056367.50

FIGURE No.

3

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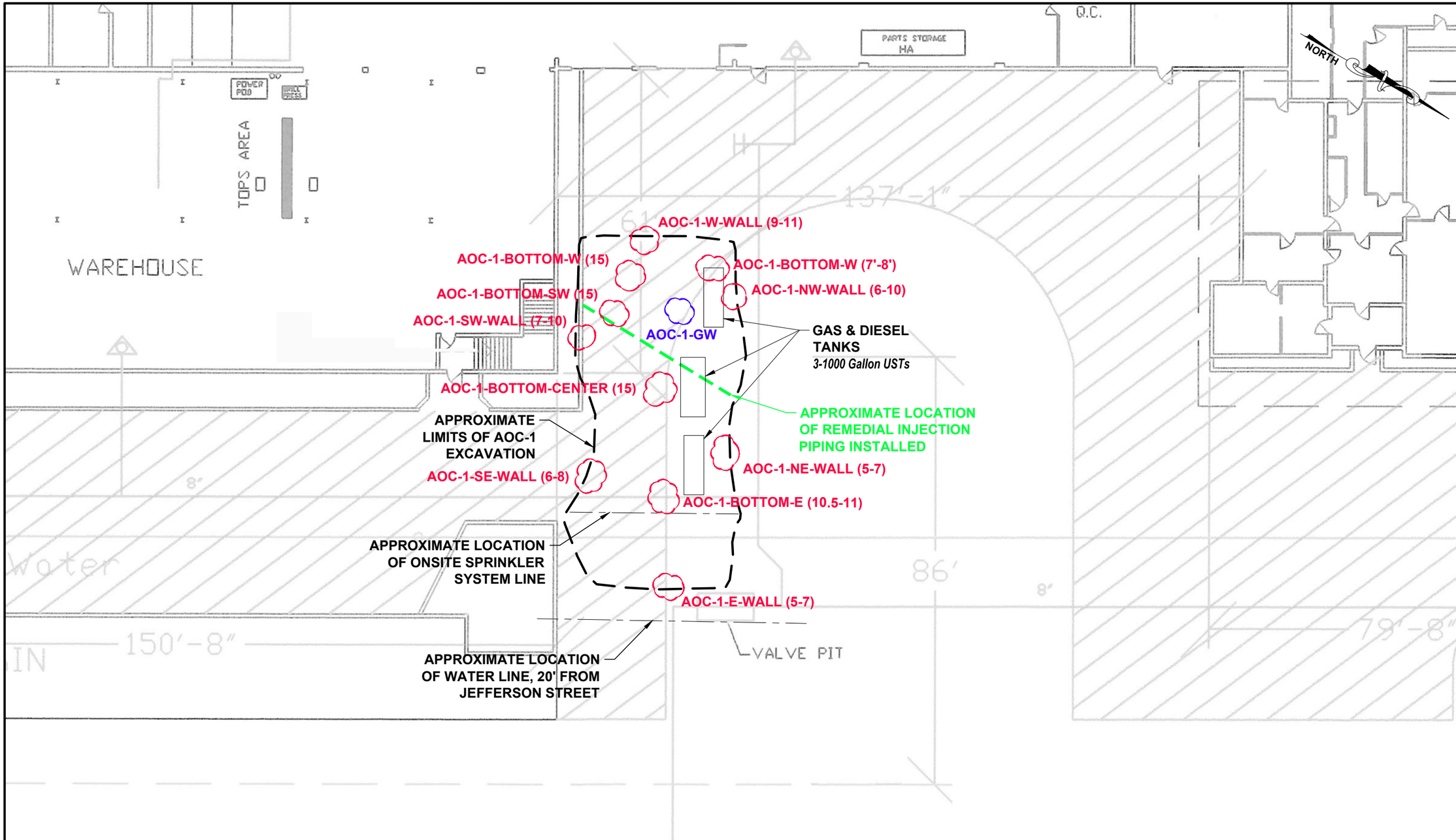
GZA-T:\PROJECTS\56300s\56367.5 Signor Ellicottville\Revised SRI-IRM-AA Report\Figure 3 IRM Acities Plan.dwg [Figure 3] January 10, 2014 - 2:01pm daniel.wulf



LEGEND:

AOC-1-SE-WALL (6-8) — APPROXIMATE LOCATION AND DESIGNATION OF CONFIRMATORY SAMPLE COLLECTED BY GZA. SAMPLE DEPTH IN PARENTHESES.

AOC-1-GW — APPROXIMATE LOCATION AND DESIGNATION OF GROUNDWATER SAMPLE COLLECTED BY GZA.

NOTES:

1. BASE MAP ADAPTED FROM A FACILITY PLAN PROVIDED BY THE CLIENT AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

DRAWN BY: DEW

DATE: JANUARY 2014

GZA GeoEnvironmental of New York

APPROXIMATE SCALE IN FEET

0 10 20 40

REVISED SRI/IRM/AA REPORT AND REMEDIAL ACTION PLAN

FORMER SIGNORE FACILITY

ELLICOTTVILLE, NEW YORK

BROWNFIELD CLEANUP PROGRAM

SITE NO. C905034

2011 IRM: AOC-1

PROJECT No.

21.0056367.50

FIGURE No.

4

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