

April 20, 2016

Mr. John R. Strang, P.E.
Environmental Engineer 2
New York State Department of Environmental Conservation
Region 4
1130 South Westcott Road
Schenectady, New York 12306-2014

Via Electronic Mail

Re: Chlorinated Solvent Plume- Monitoring Well Baseline Sampling
Parcel A Monitoring Well Network
ALCO – BCP Site C447042
Schenectady, NY

Dear Mr. Strang:

On behalf of Maxon ALCO Holdings, LLC, Barton & Loguidice, Inc. (B&L) has prepared the following report for the results of the Parcel A Monitoring Well Network (Network) baseline sampling for the Chlorinated Solvent Plume.

Summary of IRM Activities

The Parcel A Monitoring Well Network sampling activities were undertaken in accordance with the January 2016 approved Parcel A Remedial Design Report dated December 2015. The Network is composed of the following:

MW	PARCEL	DEPTH*
MW-65	A	69.65
MW-64S	A	38.55
MW-64D	A	70.15
MW-62	A	63.2

*measured from top of casing

Groundwater sampling of the Network was conducted on February 29, 2016.

Summary of Sample Results

A total of five (5) groundwater samples (including a duplicate) were collected from monitoring wells shown on the attached figure. Groundwater samples were analyzed for volatile organic compounds (VOCs), sodium, potassium, calcium, magnesium, sulfate, chloride, hardness, and nitrate. Detections are summarized on the attached table. The five (5) groundwater samples had one or more of the following at concentrations above their respective 6 NYCRR Part 703.5 Groundwater Quality Standards:

- 1,1-Dichloroethene,





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- cis-1,2-Dichloroethene,
- Tetrachloroethene,
- trans-1,2-Dichloroethene,
- Trichloroethene,
- Vinyl chloride,
- Chloride, and
- Sodium.

As discussed in the Supplemental Remedial Investigation (SRI) Report (B&L, 2013), the plume moves across the site towards the Mohawk River, along the established hydraulic gradient, moving deeper with distance from the source. Some breakdown of the original source area contaminant is evident as the plume traverses the site. Within the source area on Parcel C, tetrachloroethene (PCE) is the primary contaminant, while its breakdown cis1,2-dichloroethene (12 -DCE) is the primary contaminant at the extremities of the plume on Parcel A. The sequential breakdown of chlorinated solvents such as PCE and trichloroethene (TCE) in the subsurface due to biological and chemical processes has been documented in numerous sites in New York and in research articles, and is discussed in detail in Weidemeier, et al, 1999. Such degradation is at work at this site.

Additional sampling of the Network will be conducted four (4) weeks post remedial injection work on Parcels B and C. Please feel free to contact the undersigned at (518) 218-1801 with any questions or need for additional information.

Very truly yours,

BARTON & LOGUIDICE, INC.

Andrew J. Barber
Sr. Environmental Consultant

AJB/akd

Enclosure

cc:	Steve Porter, Esq.	- Maxon ALCO Holdings LLC
	Steve Luciano	- Maxon ALCO Holdings LLC
	Paul Fallati	- Maxon ALCO Holdings LLC
	Dean Sommer, Esq.	- Young Sommer
	Rich Ostrov	- NYSDEC Region 4, OGC
	Al DeMarco	-NYSDOH

			Baseline Sampling 2/29/2016									
PARAMETER	PART 703 ⁽¹⁾	UNITS	MW-65		MW-64S		MW-64D		MW-62		FIELD DUP	
			Result	DF	Result	DF	Result	DF	Result	DF	Result	DF
1,1-Dichloroethene	5	UG/L	1.6	1	-	1	9.7	1	-	1	9.5	1
Acetone	[50]	UG/L	6.5 J	1	2.7 J	1	1.2 J	1	-	1	-	1
cis-1,2-Dichloroethene	5	UG/L	570 D	5	-	1	1100 D	10	420 D	3	990 D	10
Methyl tert-butyl ether	10	UG/L	1.7	1	-	1	-	1	-	1	-	1
Tetrachloroethene	5	UG/L	390 D	5	-	1	-	1	-	1	1	1
Toluene	5	UG/L	-	1	-	1	-	1	-	1	-	1
trans-1,2-Dichloroethene	5	UG/L	5.6	1	-	1	40	1	24	1	39	1
Trichloroethene	5	UG/L	260 D	5	-	1	900 D	10	1.5	1	890 D	10
Vinyl chloride	2	UG/L	590 D	5	-	1	820 D	10	120	1	660 D	10
Magnesium	[35]	MG/L	32.4	1	15.5	1	39.2	1	26.4	1	41.3	1
Sodium	20	MG/L	219	1	31.4	1	347	1	395	1	367	1
Chloride	250	MG/L	418 D	10	22.6	1	509 D	100	498 D	100	510 D	100
Hardness	-	MG/L	530 D	10	310 D	10	570 D	10	450 D	10	540 D	10

1. 6 NYCRR Part 703.5 Groundwater Quality Standards

D Results for Dilution

DF Dilution Factor

- Not Detected

[] Guidance Value

Field Dup collected from MW-64D

			PARCEL A																									
			MW-52			MW-25D			MW-63		MW-62			MW-64S		MW-64D		MW-65										
			4/23/2012		4/23/2012		6/17/2013		4/23/2012		4/23/2012		6/17/2013		6/17/2013		6/17/2013		9/11/2015		2/29/2016		2/29/2016		2/29/2016		2/29/2016	
Parameter	PART 703	Units	Result	DF	Result	DF	Result	DF	Result	DF	Result	DF	Result	DF	Result	DF	Result	DF	Result	DF	Result	DF	Result	DF	Result	DF	Result	DF
1,1-Dichloroethane	5	µg/l	-	1	-	20	1.52	1	-	1	-	4	-	1	3.41	1	-	1	-	1	-	1	-	1	-	1	-	1
1,1-Dichloroethene	5	µg/l	5.2 J	1	13 J	20	-	1	0.63 J	1	-	4	-	1	-	1	-	1	2.7	1	-	1	-	1	9.7	1	1.6	1
Acetone	50	µg/l	-	1	-	20	-	1	-	1	-	4	-	1	-	1	-	1	-	1	-	1	2.7	1	1.2	1	6.5	1
Chloroform	7	µg/l	-	1	-	20	-	1	0.47 J	1	-	4	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
cis-1,2-Dichloroethene	5	µg/l	450 EJ	1	970	20	111	1	220 EJ	1	280	4	109	1	2720	1	2260	1	1000 D	10	420	3	-	1	1100	10	570	5
Methyl tert-butyl ether	10	µg/l	-	1	-	20	-	1	-	1	-	4	-	1	-	1	-	1	NA	1	-	1	-	1	-	1	1.7	1
Tetrachloroethene	5	µg/l	25 J	1	43	20	-	1	28	1	34	4	17.3	1	82.7	1	-	1	NA	1	-	1	-	1	-	1	390	5
trans-1,2-Dichloroethene	5	µg/l	13 J	1	30	20	-	1	-	1	-	4	-	1	48.5	1	48.4	1	NA	1	24	1	-	1	40	1	5.6	1
Trichloroethene	5	µg/l	400 EJ	1	760	20	17.4	1	34	1	42	4	14.9	1	206	1	18.7	1	NA	1	1.5	1	-	1	900	10	260	5
Vinyl chloride	2	µg/l	25 J	1	47 J	20	5.94	1	6.1	1	7.8	4	-	1	21	1	-	1	NA	1	120	1	-	1	820	10	590	5
Calcium	-	MG/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		152	1	108	1	172	1	171	1
Magnesium	[35]	MG/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		26.4	1	15.5	1	39.2	1	32.4	1
Potassium	-	MG/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		6.66	1	7.37	1	5.88	1	6.15	1
Sodium	20	MG/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		395	1	31.4	1	347	1	219	1
Chloride	250	MG/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		498 D	100	22.6	1	509 D	100	418 D	10
Sulfate	250	MG/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		47.9 D		2.48 J	1	54 D	10	29.8	1
Hardness	-	MG/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		450 D	10	310 D	10	570 D	10	530 D	10

1. 6 NYCRR Part 703.5 Groundwater Quality Standards

D Results for Dilution

J Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.

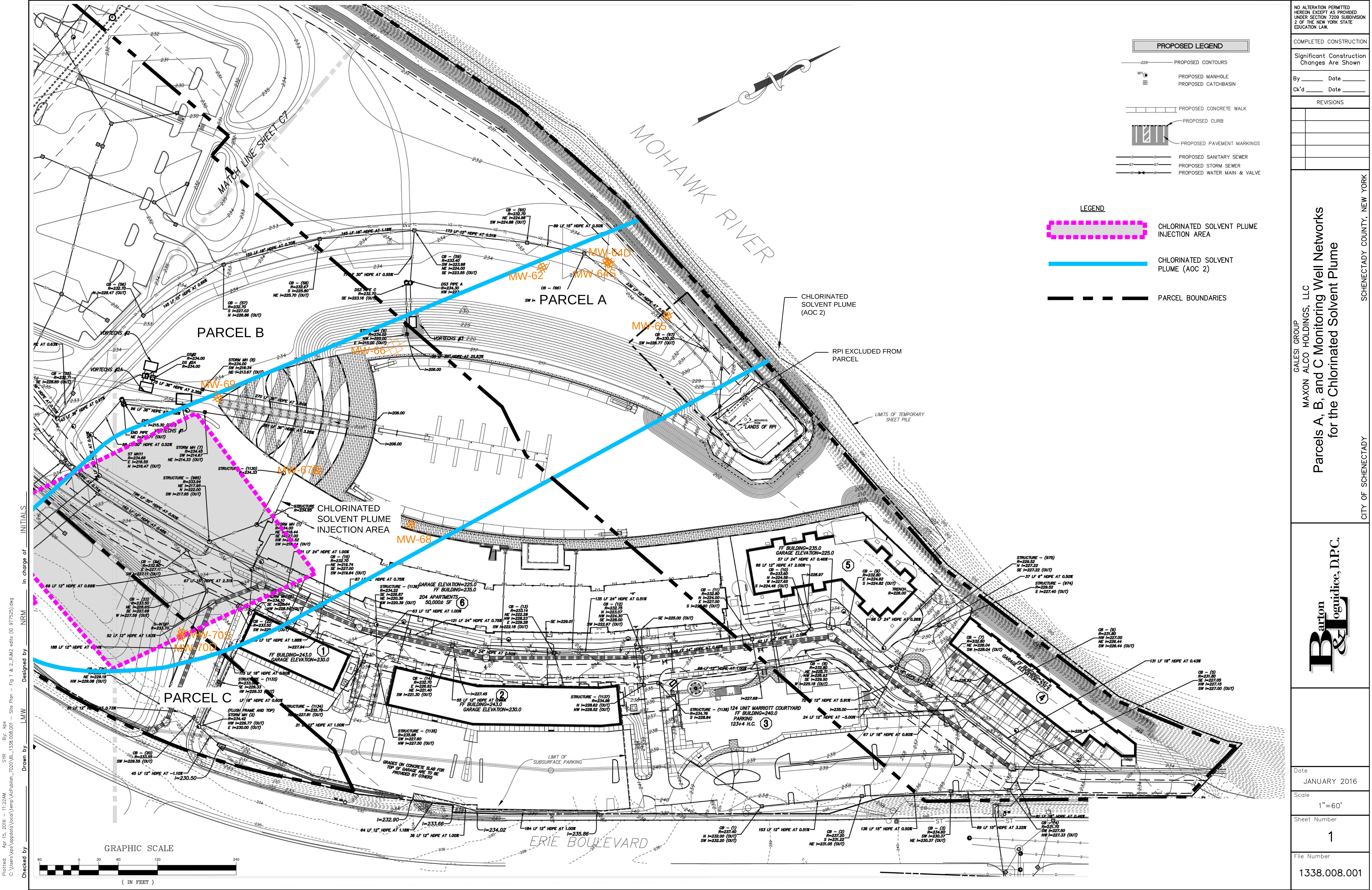
EJ - Result exceeded the calibration range. Analyte is present, but the reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

DF Dilution Factor

- Not Detected

[] Guidance Value

NA Not Analyzed



NO ALTERATION PERMITTED
HEREON EXCEPT AS PROVIDED
UNDER SECTION 7209 SUBDIVISION
2 OF THE NEW YORK STATE
EDUCATION LAW.

COMPLETED CONSTRUCTION

Significant Construction
Changes Are Shown

By _____ Date _____
Ck'd _____ Date _____

REVISIONS

SALES GROUP
MAXON ALCO HOLDINGS, LLC

Parcels A, B, and C Monitoring Well Networks
for the Chlorinated Solvent Plume

SCHENECTADY COUNTY, NEW YORK

Barton
B&L
Engineering, D.P.C.

1338.008.001

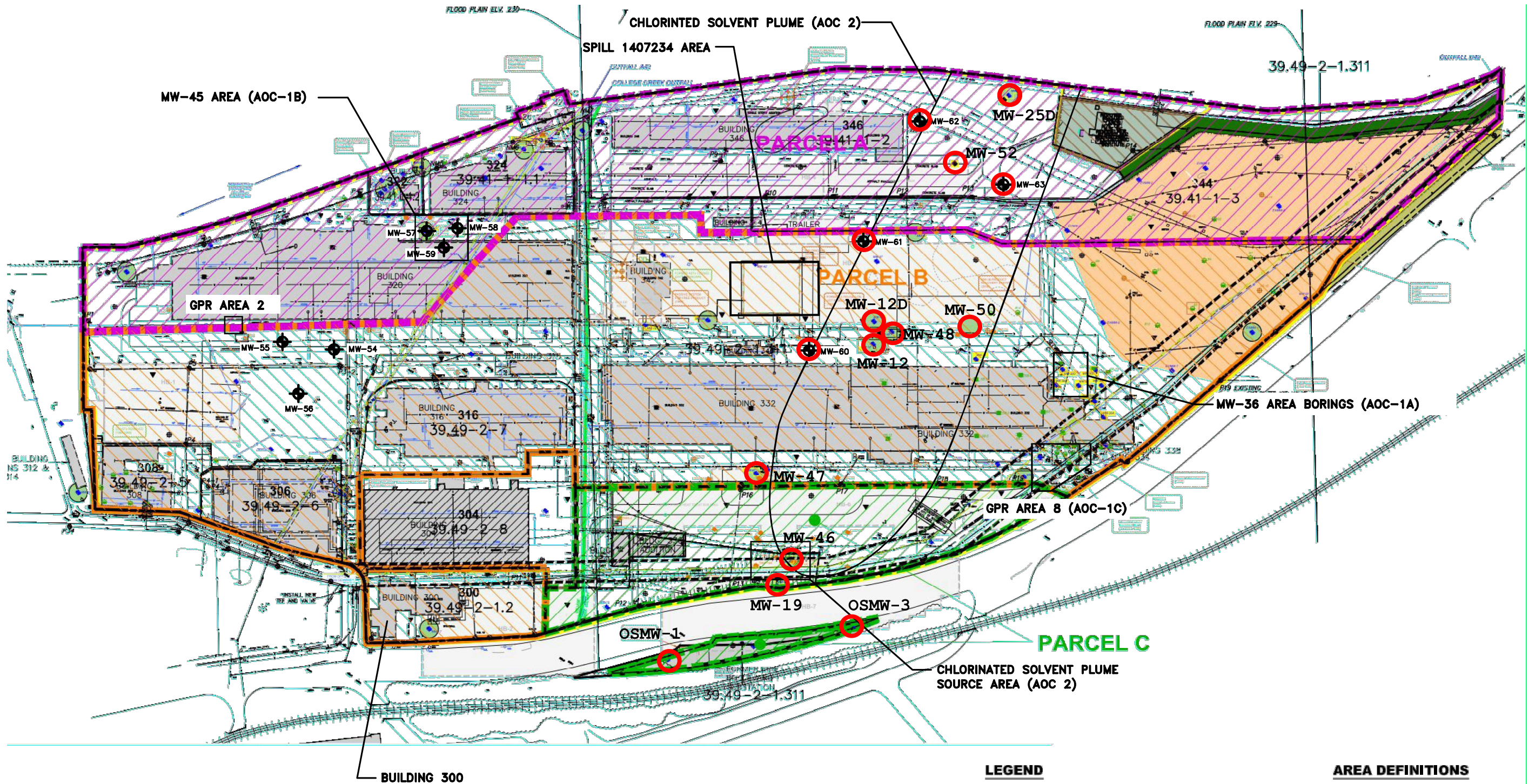
Date
JANUARY 2016

Scale
1"=60'

Sheet Number
1

File Number
1338.008.001

Plotted: Mar 24, 2015 - 3:27PM SYR By: jgs
Z: \\BL-Vault\\D2\\18217AD2-1C71-4823-8927-99D5C4054147\\0\\765000-765099\\765084\\L\\1368001_IRM Work Plan-Figure 1 (ID 765084).dwg



MAP REFERENCE:

- 1) "SURVEY OF LANDS, ALCO LOCOMOTIVE, INC., CITY OF SCHENECTADY, COUNTY OF SCHENECTADY", DATED MARCH 1970, AS PREPARED BY C.T. MALE ASSOCIATES.
- 2) "A SUBDIVISION OF A PORTION OF LANDS OF SCHENECTADY INDUSTRIAL CORPORATION", DATED JUNE 30, 1988, AS PREPARED BY THE ENVIRONMENTAL DESIGN PARTNERSHIP.
- 3) "SITE PLAN, PROPOSED C & D RECYCLING FACILITY, NOTT STREET INDUSTRIAL PARK", DATED FEBRUARY 1995, AS PREPARED BY INGALLS SMART ASSOCIATES.

SOURCE:

- 1) ABD ENGINEERS AND SURVEYORS FEBRUARY 1988, REVISED NOVEMBER 1999.
- 2) HISTORIC BUILDING (HB) LOCATIONS BASED ON A "FUEL OIL PIPING" PLAN, PREPARED FOR AMERICAN LOCOMOTIVE CO., REVISED AUGUST 22, 1995.

LEGEND

	PROPERTY BOUNDARY		MONITORING WELL (MW)
	BCP SITE BOUNDARY		TEMPORARY MONITORING WELL (TMW)
	MANHOLE WITH DRAINAGE STRUCTURE NUMBER		RECOVERY WELL
	CATCH BASIN WITH DRAINAGE STRUCTURE NUMBER		PIEZOMETER
	LIFT STATION WITH DRAINAGE STRUCTURE NUMBER		GEOPROBE BORING
	MANHOLE (M.H.)		SURFACE SOIL SAMPLE LOCATION (SS)
	CATCH BASIN (C.B.)		SOIL BORING LOCATION

AREA DEFINITIONS

	BUILDINGS/STRUCTURES
	FORMER BUILDINGS (PREVIOUSLY DEMOLISHED)
	"EVI" PARCEL
	"RPI" PARCEL
	OTHER PROPERTIES NO PART OF SITE
	REMEDATION AREA
	FORMER UST/AST LOCATIONS



MW-63 MONITORING WELL (SRI INVESTIGATION 2013)



Chlorinated Solvent Plume MW

MAXON ALCO HOLDINGS, LLC

Former Monitoring Well Network for the Chlorinated Solvent Plume

CITY OF SCHENECTADY

NEW YORK



Date
MARCH, 2015

Scale
1" = 100'

Figure Number
3

Project Number
1368.001.001