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Remedial Investigation Report

Volume # 2 - Figures

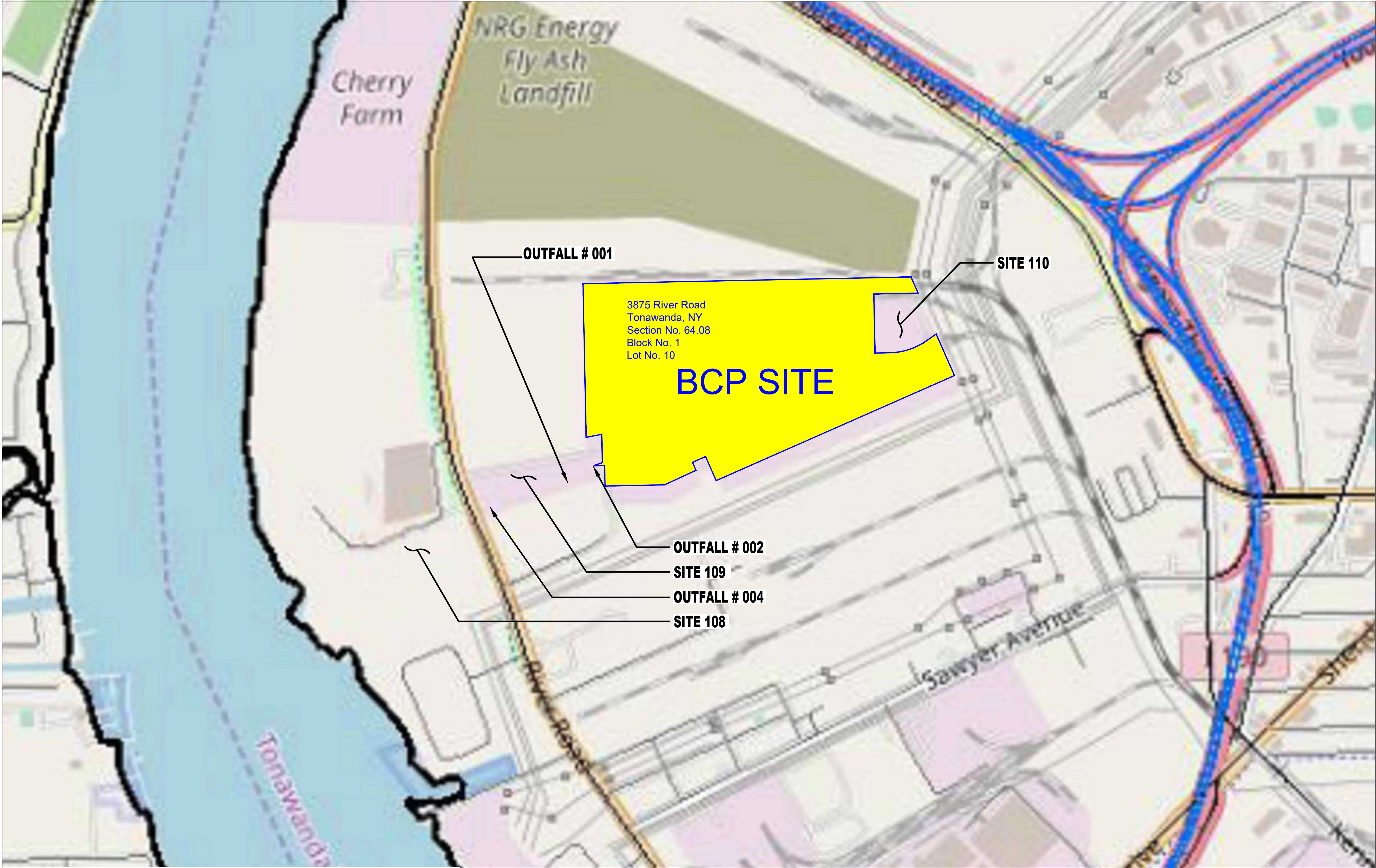
Riverview Innovation & Technology Campus
Brownfield Cleanup Program Site No. C915353

3875 River Road
Tonawanda, New York 14150

August 18, 2023

Figures



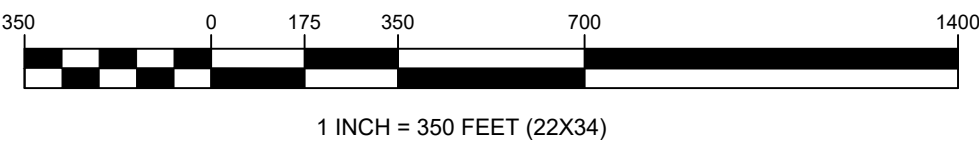


Erie County, New York, Interactive Mapping Viewer, www2.erie.gov/gis

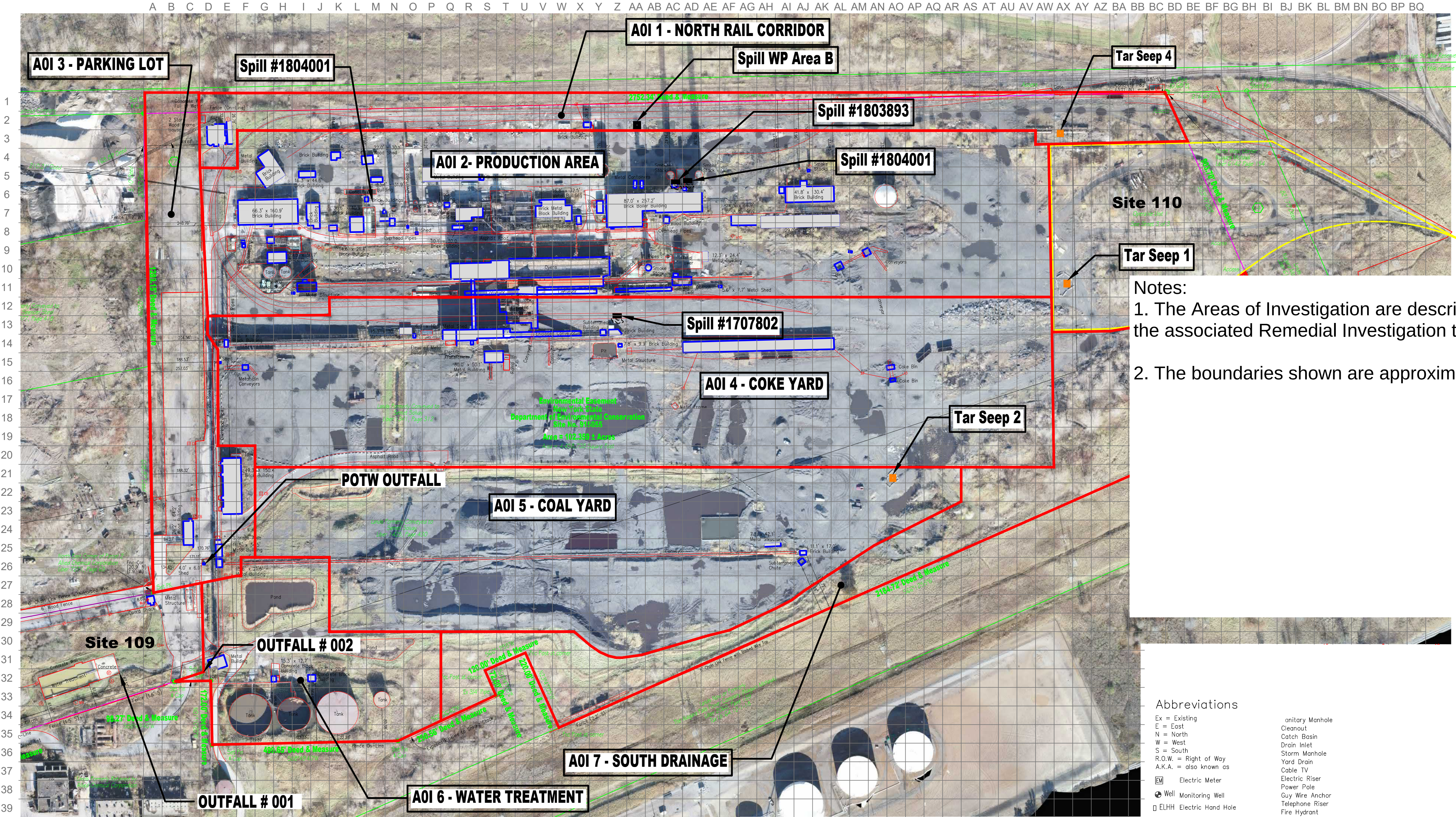
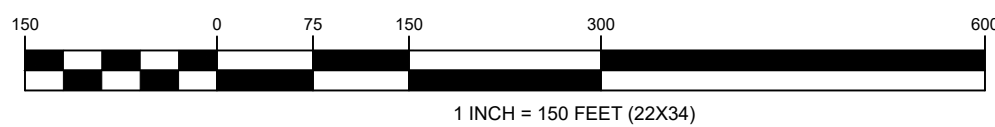
64.08-1-10 Section No., Block No., Lot No. (SBL)

 Brownfield Site

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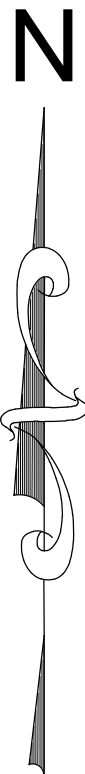
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- Notes:
1. The Areas of Investigation are described in the associated Remedial Investigation text.
 2. The boundaries shown are approximate.

Abbreviations

- | | |
|---------------------------|------------------|
| Ex = Existing | Sanitary Manhole |
| E = East | Cleanout |
| N = North | Catch Basin |
| W = West | Drain Inlet |
| S = South | Storm Manhole |
| R.O.W. = Right of Way | Yard Drain |
| A.K.A. = also known as | Cable TV |
| EM = Electric Meter | Electric Riser |
| Well Monitoring Well | Power Pole |
| ELHH = Electric Hand Hole | Guy Wire Anchor |
| | Telephone Riser |
| | Fire Hydrant |



AREAS OF INVESTIGATION (AOI) BOUNDARIES
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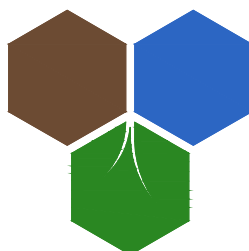
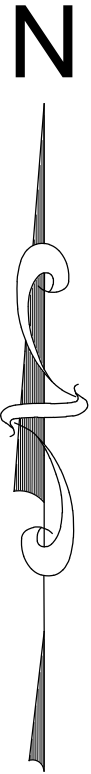
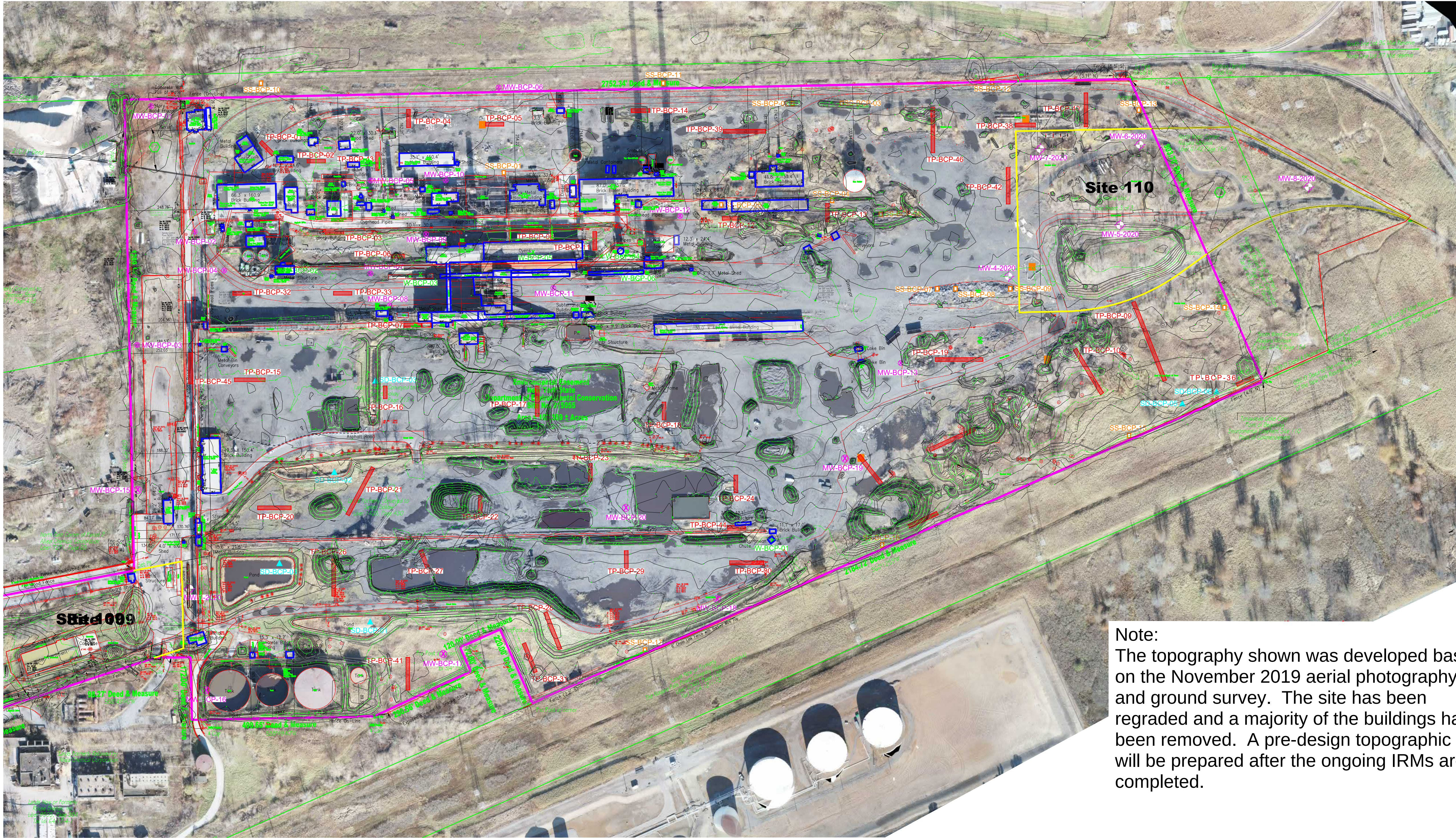
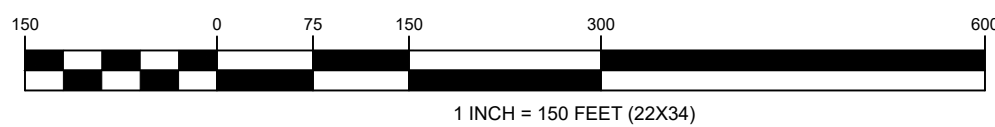


FIGURE 2 - 2

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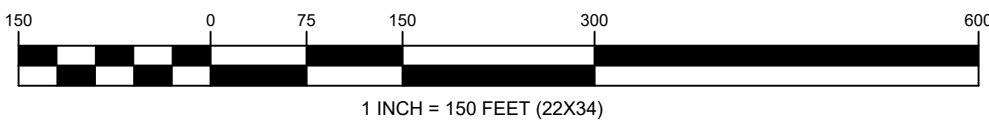
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FIGURE 2 - 3
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SITE TOPOGRAPHIC MAP
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Note:
The topography shown was developed based on the November 2019 aerial photography and ground survey. The site has been regraded and a majority of the buildings have been removed. A pre-design topographic map will be prepared after the ongoing IRMs are completed.

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- NOTES:
1. Top of Clay elevation contours are referenced to feet above mean sea level based on depth to clay (feet BGS) shown and surveyed ground surface elevation at observation point.
 2. Depth to Clay (feet BGS) based the RI test pitting program on the BCP Site, Site 109 and Site 110.



TOP OF CLAY CONTOUR MAP
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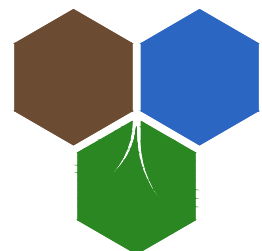
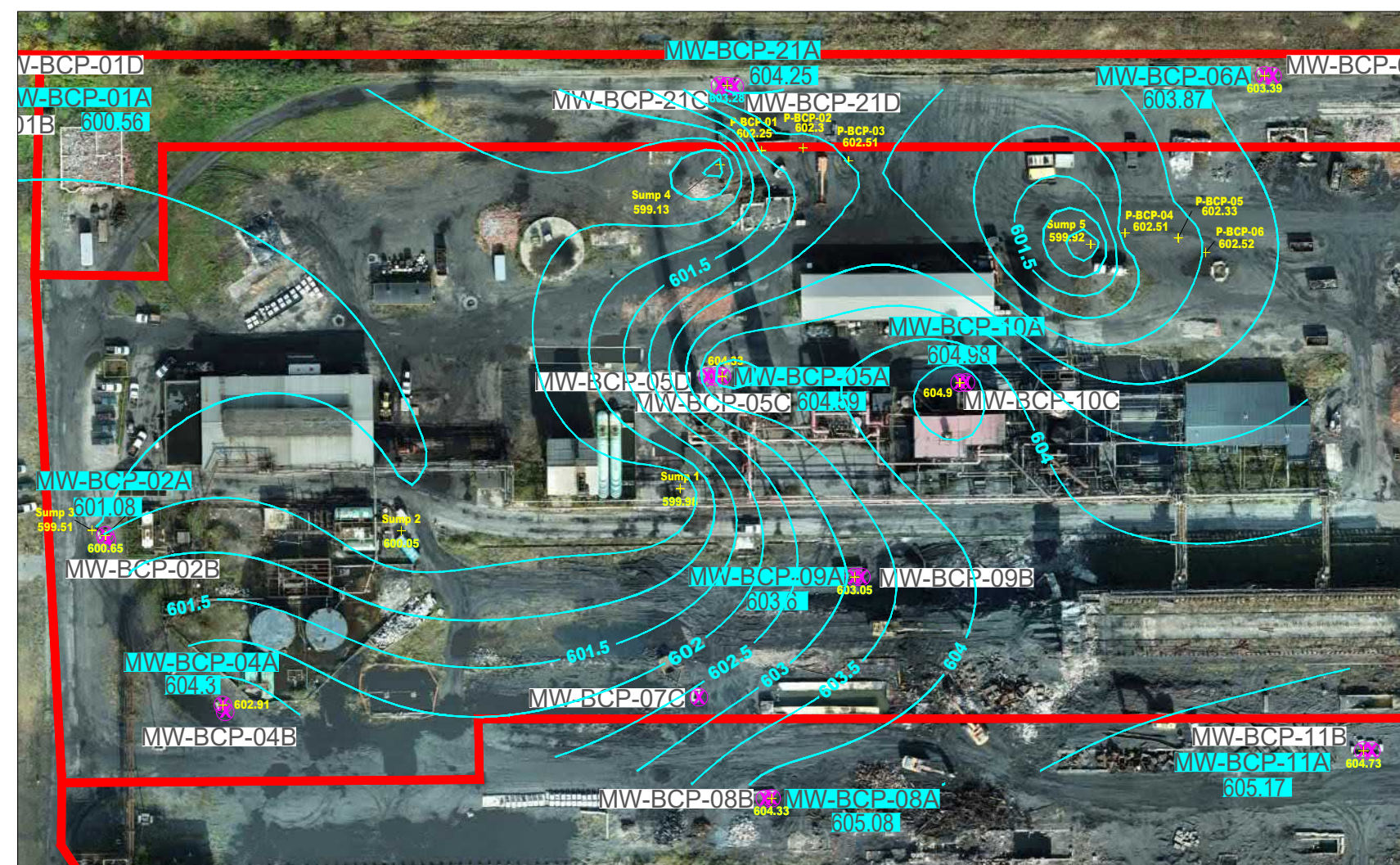


FIGURE 2 - 4

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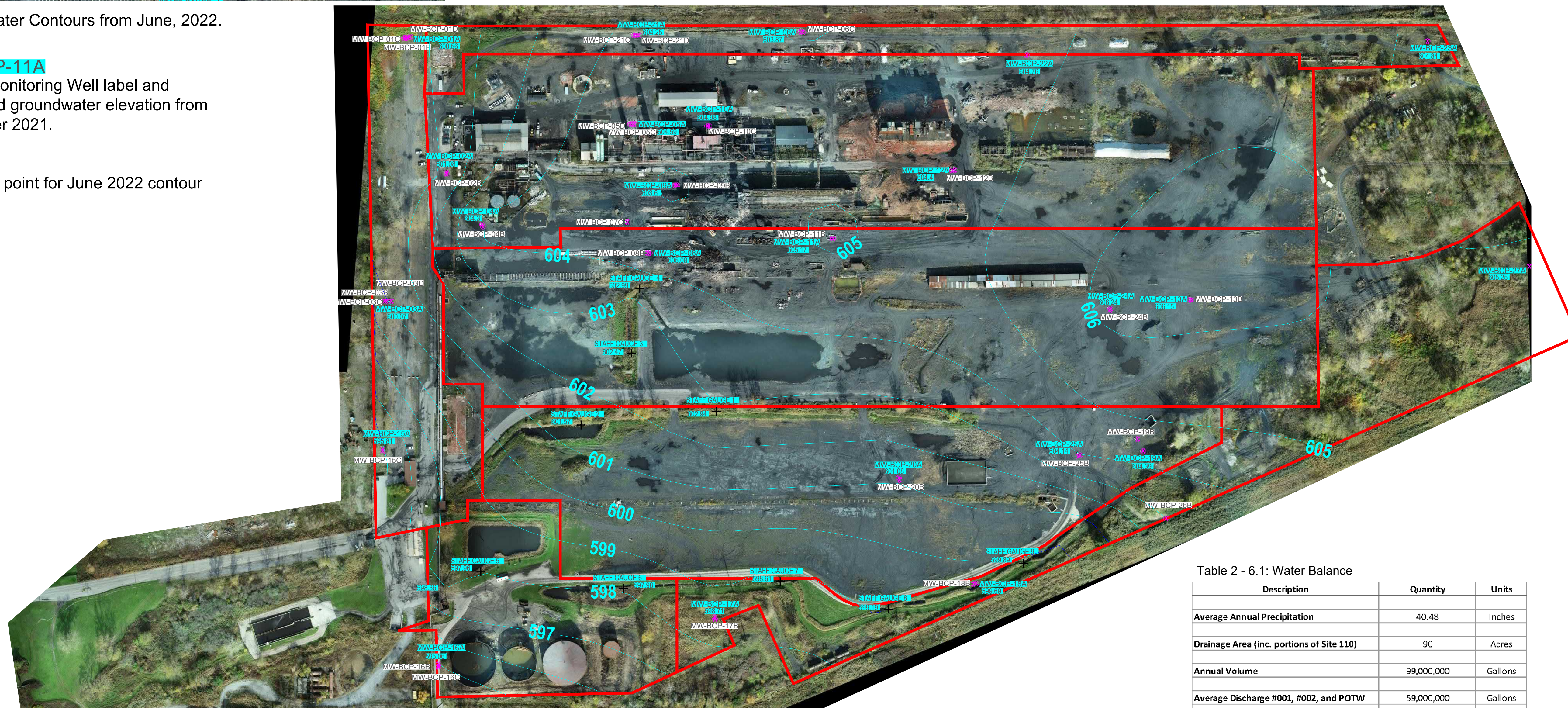
Groundwater Contours from June, 2022.

Key:

MW-BCP-11A

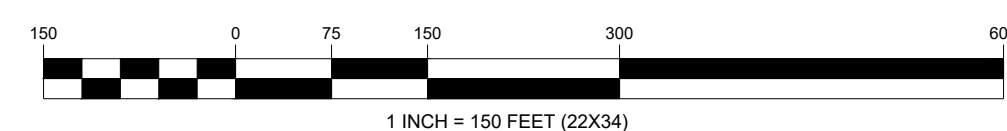
A-Zone Monitoring Well label and associated groundwater elevation from September 2021.

Collection point for June 2022 contour map.



NOTES:

1. Ground elevations shown are in feet above mean sea level (Feet AMSL).



Reference: Aerial Photography by Niagara Boundary, March 2022

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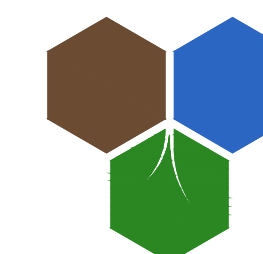
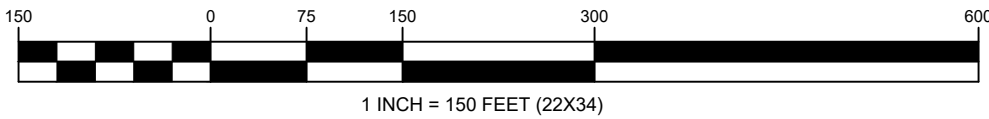


FIGURE 2 - 6

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- NOTES:
- Groundwater elevations shown are in feet above mean sea level (Feet AMSL).



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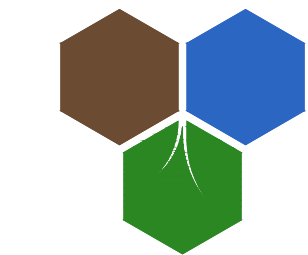
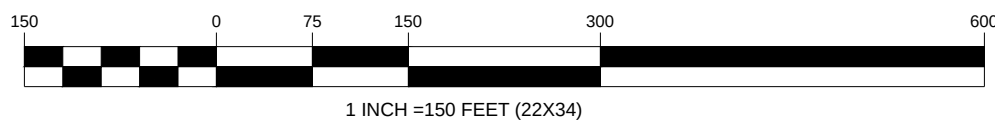
GROUNDWATER CONTOURS - UPPER CLAY
B-ZONE MONITORING WELLS - SEPTEMBER 2021
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FIGURE 2 - 7

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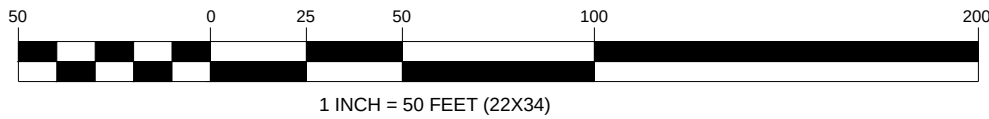
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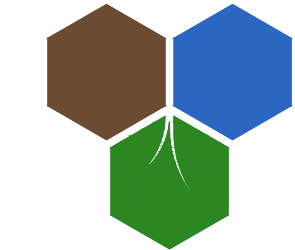
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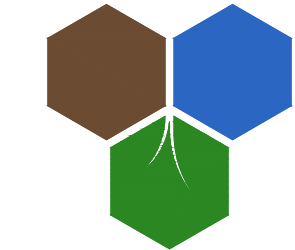
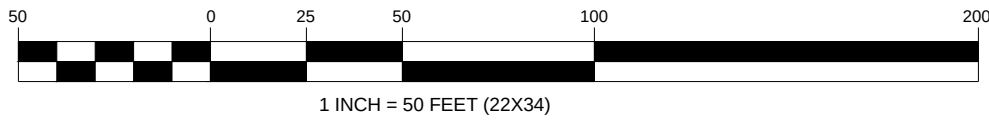
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FIGURE 2 - 11

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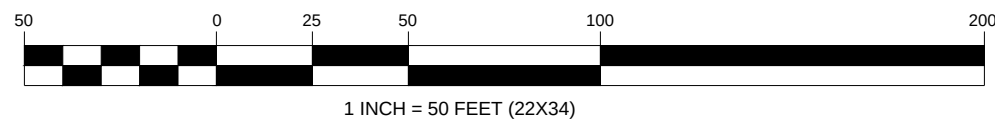
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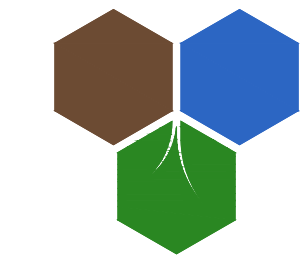
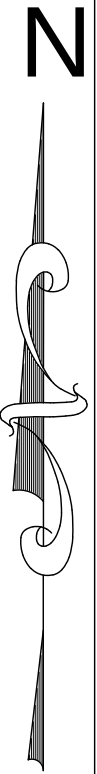
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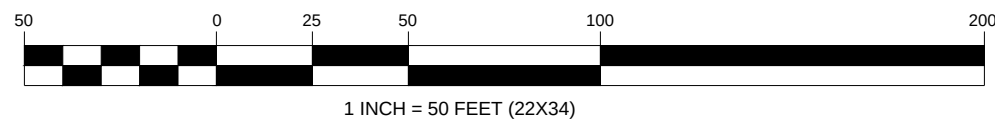
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FIGURE 2 - 13

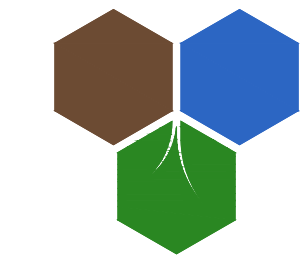
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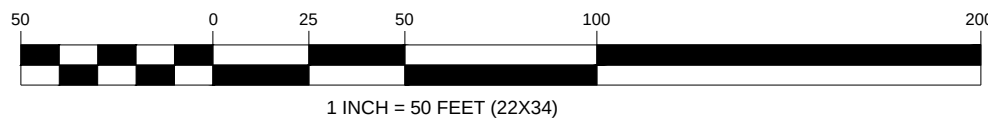
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FIGURE 2 - 14

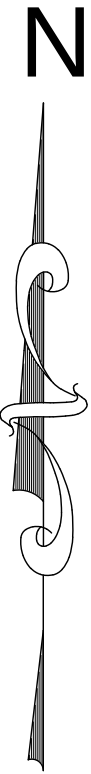
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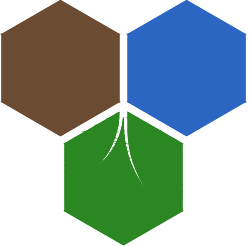
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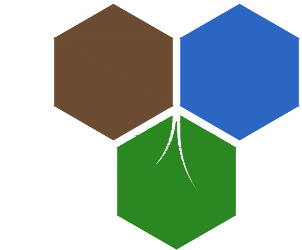
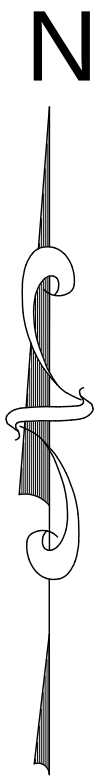
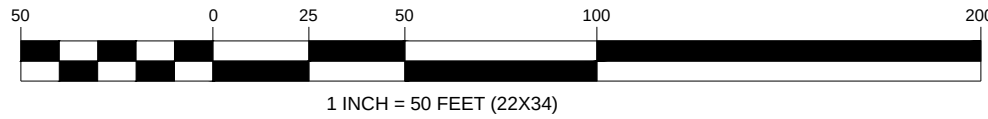


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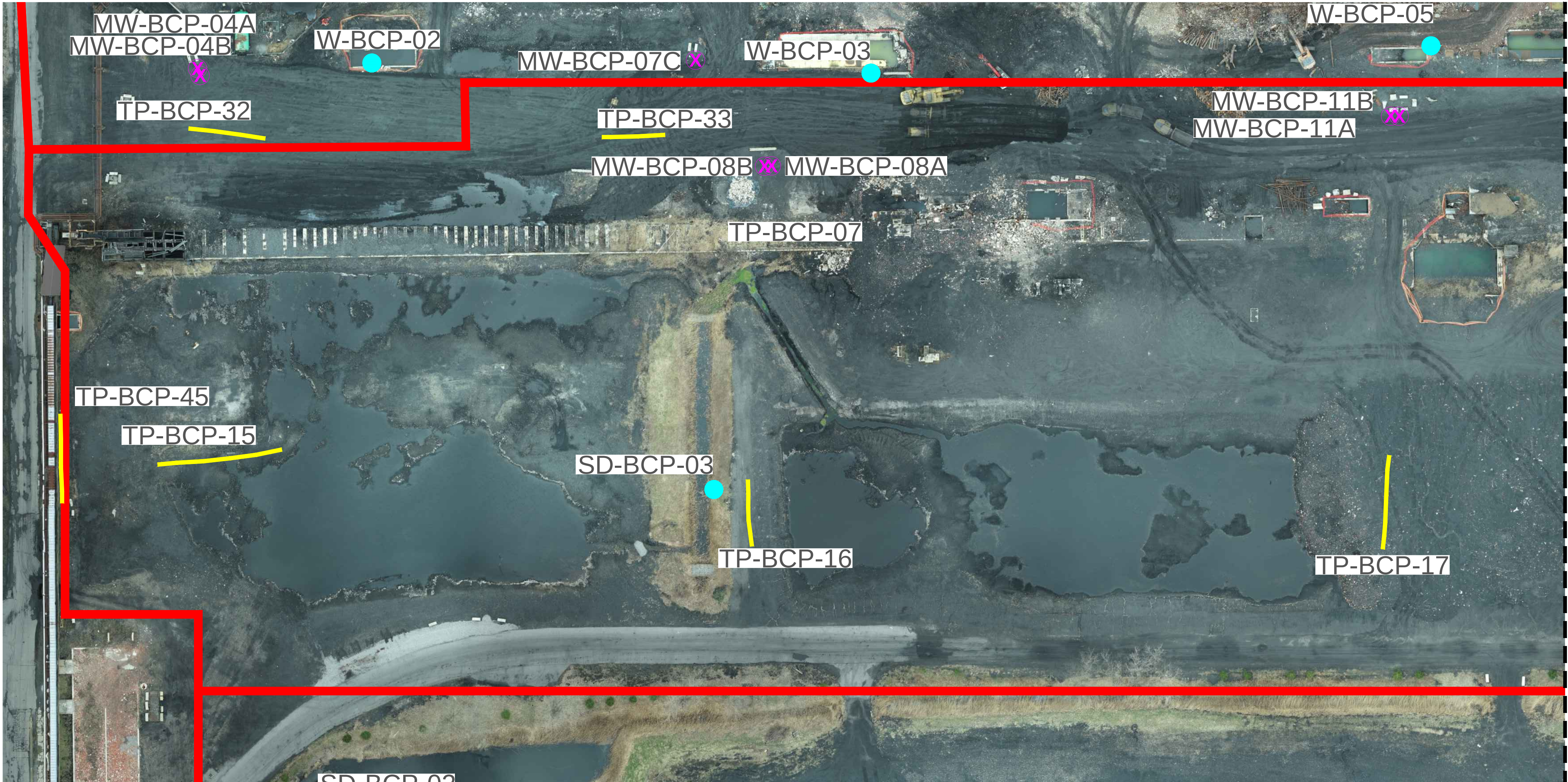
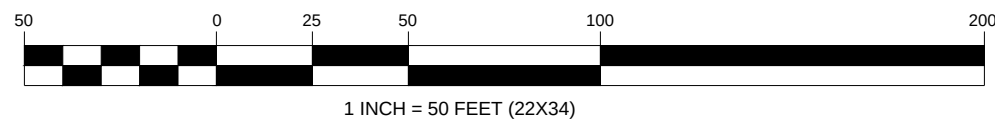
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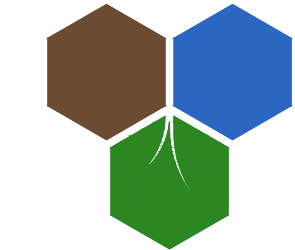
FIGURE 2 - 16

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MATCHLINE A01 4 EAST



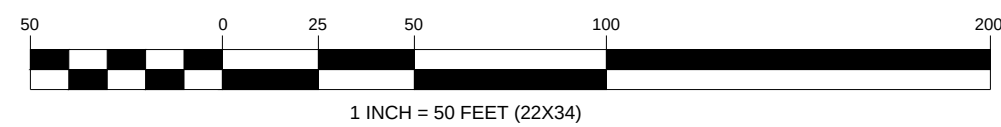
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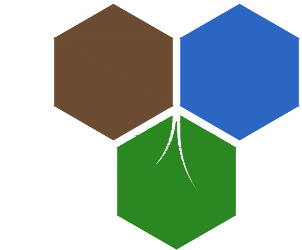
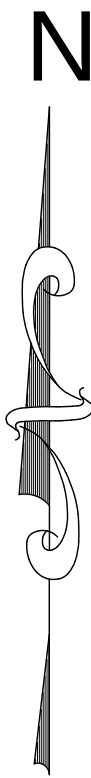
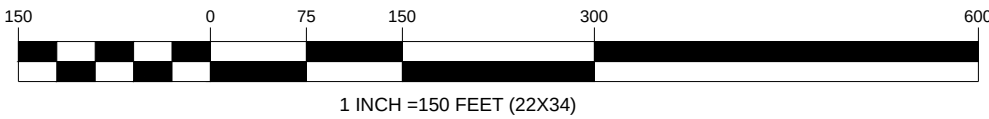
FIGURE 2 - 17

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A01 4 WEST

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DRAWING NUMBER		FIGURE 2 - 18			
AOI 4 EAST					



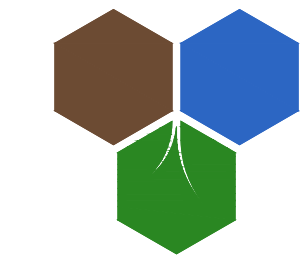
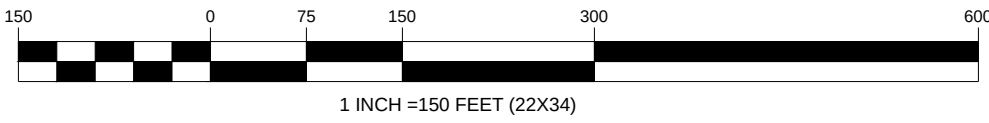
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FIGURE 2 - 19

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A01 5 WEST

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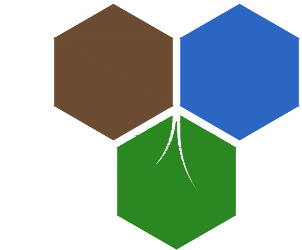
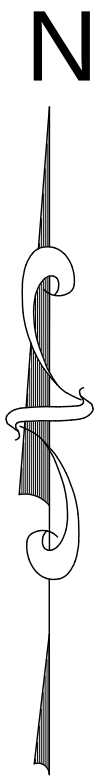
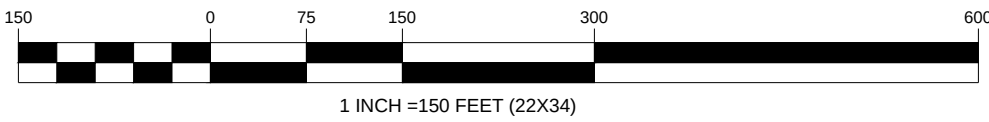
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FIGURE 2 - 20

DRAWING NUMBER
AOI 5 EAST

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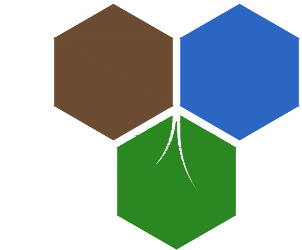
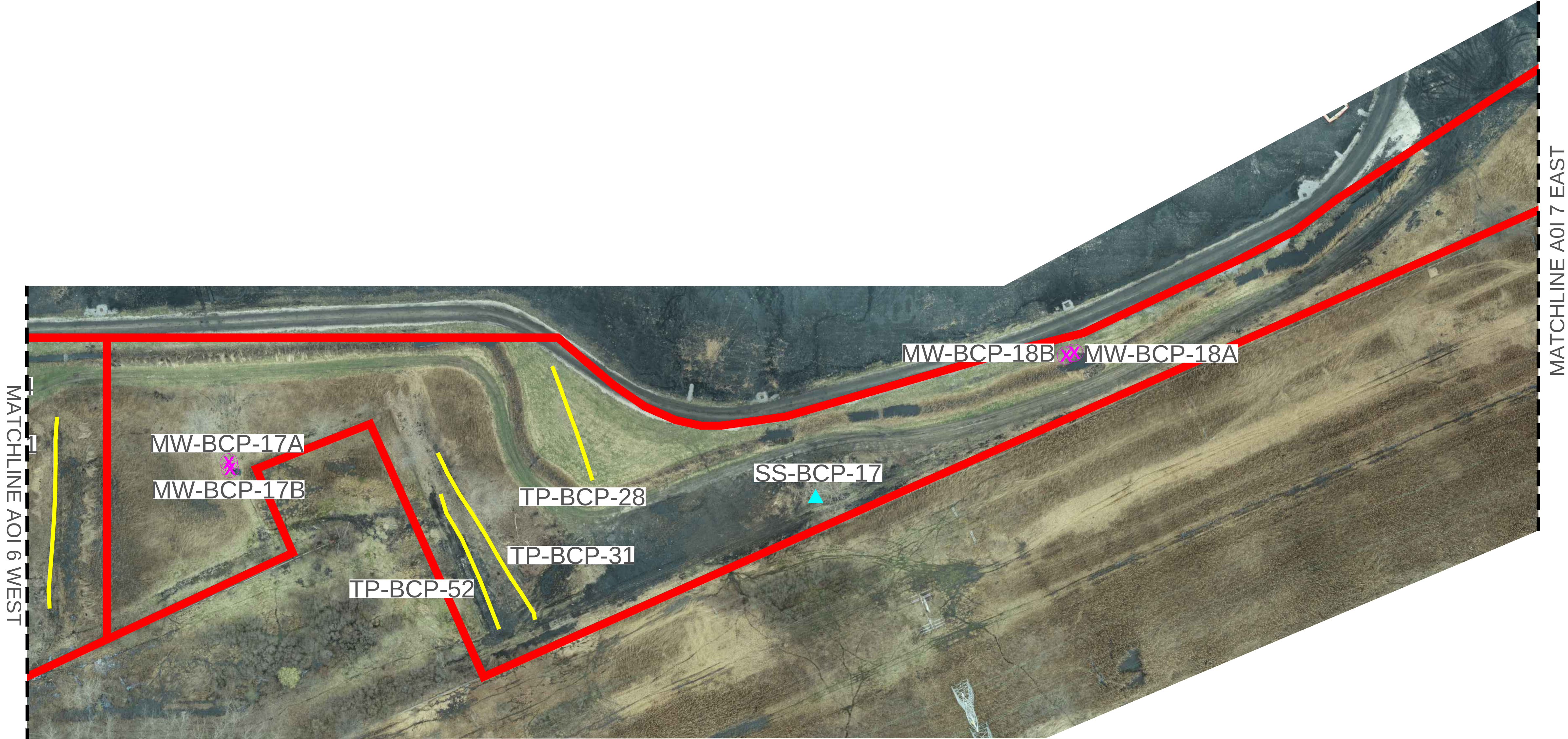
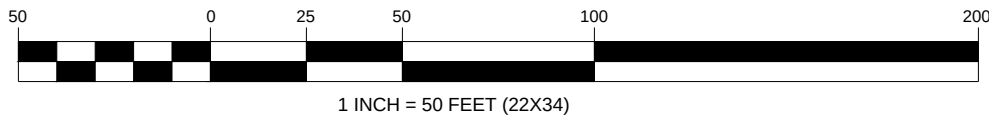
SAMPLE LOCATIONS - A01 6
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FIGURE 2 - 21

DRAWING NUMBER
A01 6 WEST

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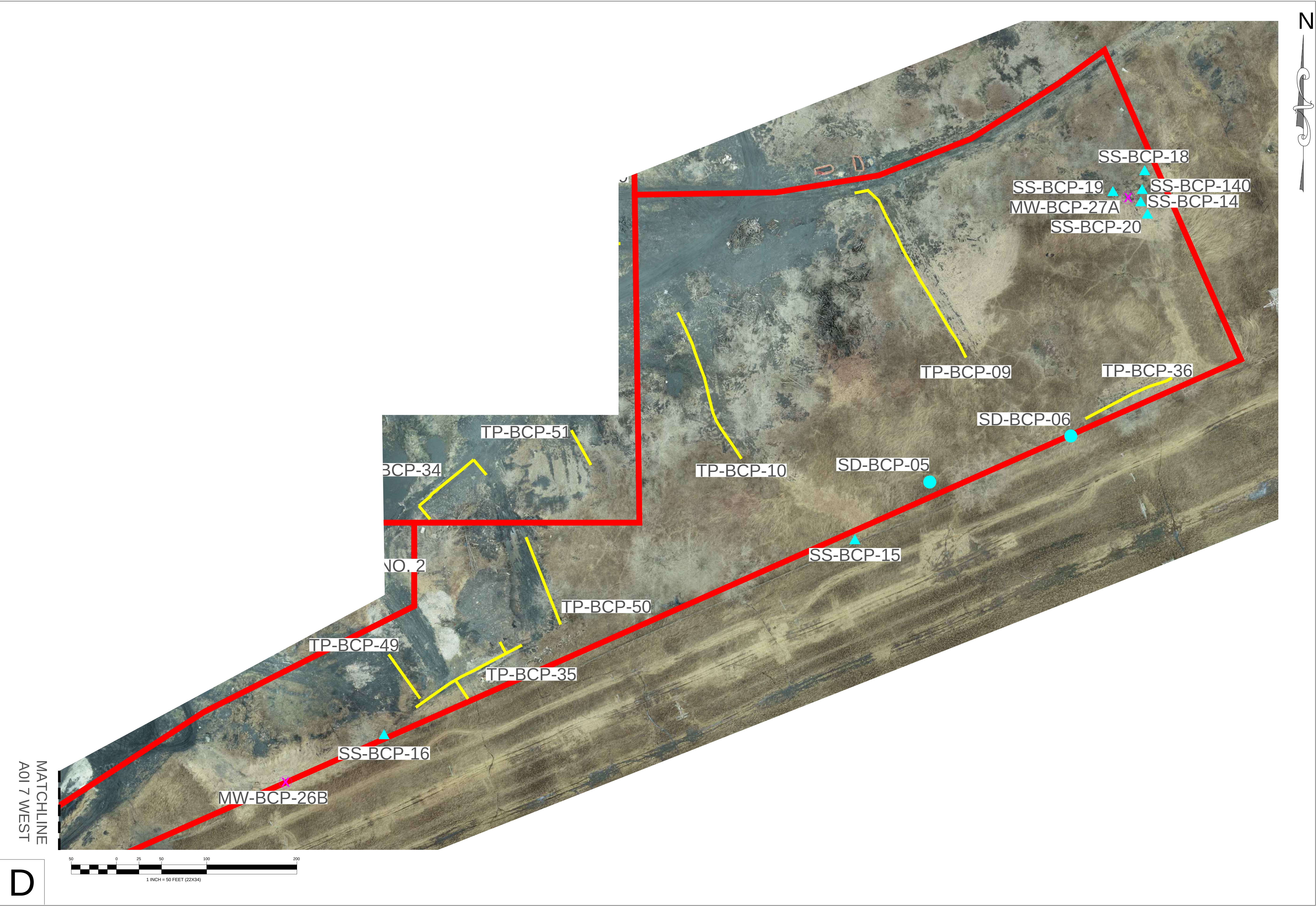
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FIGURE 2 - 22

DRAWING NUMBER
AOI 7 WEST

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FIGURE 2 - 23

DRAWING NUMBER

AOI 7 EAST

SAMPLE LOCATIONS - AOI 7 EAST

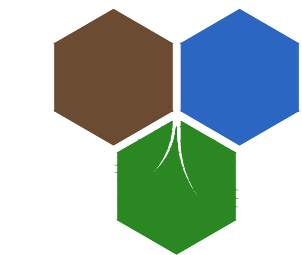
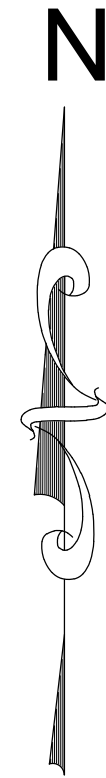
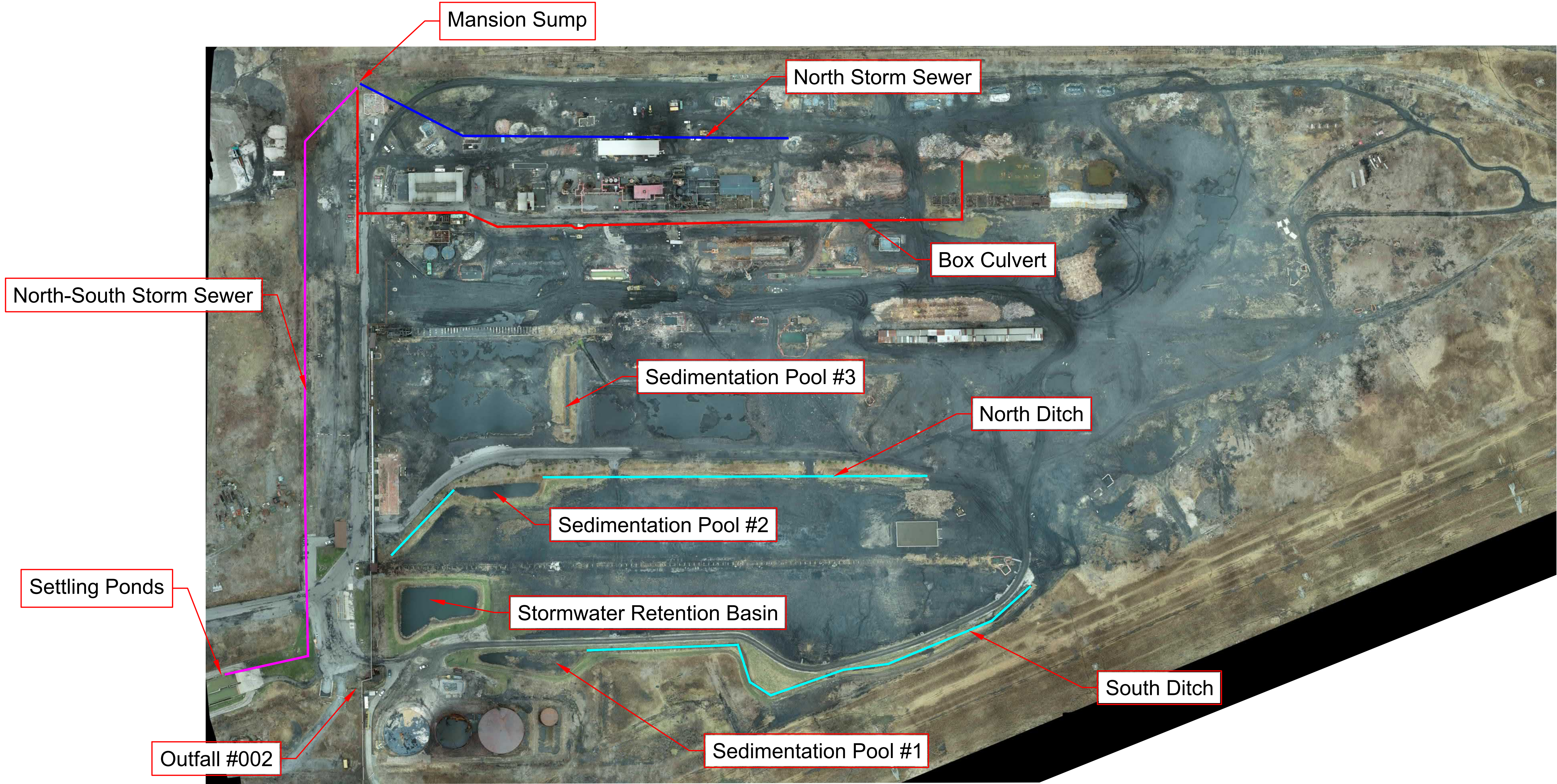
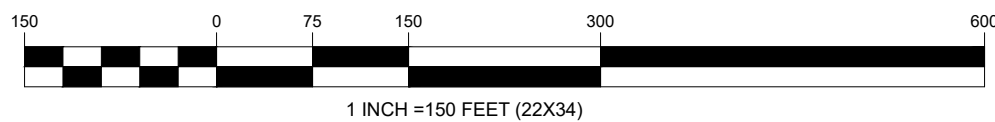
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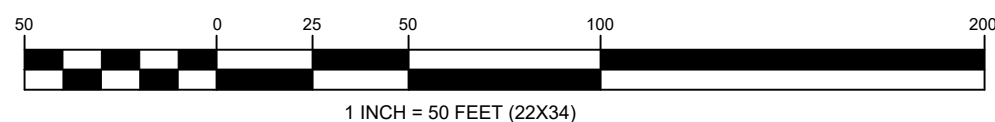
MAJOR UNDERGROUND UTILITIES
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FIGURE 2-24

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UTILITIES

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The analytes listed on each figure are the analytes that were detected in at least one sample in a given media in that AOI.

The part 375 Soil Cleanup Objectives are listed for both the Commercial and Industrial Criteria.

The Units are the units reported by the laboratory; ug/kg are micrograms per kilogram and mg/kg are milligrams per kilogram.

The sample location is listed above the data. See legend for nomenclature.

The next three cells list the date the sample was collected, the depth of the sample, and the type of material sampled.

Analytes	Part 375 SCOs		Units	MW-BCP-10
	Commercial	Industrial		
	Sample Date: 11/13/2020			
	Sample Interval: 0 - 1 ft			
			Formation:	Shallow Fill
TCL SVOCs (SW8270D)				
Benzo(A)Anthracene	5,600	11,000	ug/kg	330000 D
Benzo(A)Pyrene	1,000	1,100	ug/kg	550000 D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	510000 D
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	160000 D
Chrysene	>6,000	110,000	ug/kg	340000 D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	90000 DJ
Fluoranthene	500,000	1,000,000	ug/kg	520000 D
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	470000 D
Pyrene	500,000	1,000,000	ug/kg	510000 D
TAL Metals (SW6010)				
Arsenic	16	16	mg/kg	8.2 J
Copper	270	10,000	mg/kg	24.1
Mercury (SW7471)				
Mercury	2.8	5.7	mg/kg	1.1
Total Cyanide (SW9012B)				
Cyanide	27	10,000	mg/kg	4.28

The numerical value is the concentration in the associated units.

All values above the commercial SCO are highlighted in green.

All values above the industrial SCO are highlighted in pink.

The data qualifiers are listed, when applicable, next to the numerical data, see legend for description.

The numerical value is the concentration in the associated units.

All values above the commercial SCO are highlighted in green.

All values above the industrial SCO are highlighted in pink.

The data qualifiers are listed, when applicable, next to the numerical data, see legend for description.

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	The analytes listed on each figure are the analytes that were detected in at least one sample in a given media in that AOI.									
			MW-BCP-05A		MW-BCP-05A (DUP)		MW-BCP-05A		MW-BCP-05A (DUP 05A)			
			Sample Date		1/14/2021		1/14/2021		9/23/2021		9/23/2021	
			Screen Interval (ft bgs)		3.0 - 5.0		3.0 - 5.0		3.0 - 5.0		3.0 - 5.0	
Screened formation			FIB		FIB		FIB		FIB			
The Class GA groundwater standards are listed for each detected compound.												
The Units are the units reported by the laboratory; ug/L are micrograms per liter and mg/L are milligrams per liter.												
The sample location is listed above the data. See legend for nomenclature. Note: (DUP) indicates a duplicate collected at the time the original sample was collected.												
The next three cells list the date the sample was collected, the depth of the screened interval, and the type of material in the screened interval.												
TCL SVOCs (SW8270D)												
Benzo(a)anthracene	1	ug/l	5000	J	NS		3300	J	NS			
Benzo(a)pyrene	5	ug/l	190	J	NS		94	J	NS			
Benzo(b)fluoranthene	5	ug/l	<1.3	U	NS		<5.0	U	NS			
Benzo(k)fluoranthene	5	ug/l	190	J	NS		94	J	NS			
Chrysene	5	ug/l	220	J	NS		130	J	NS			
Dibenz(a,h)anthracene	5	ug/l	130	J	NS		76	J	NS			
1,4-Dioxane (SW6270D) (MMS/M)												
1,4-Dioxane (P. Dioxane)	1	ug/l	2.2	J	NS		2.1	J	2.3			
TCL SVOCs (SW8270D)												
2,4-Dichlorophenol	50	ug/l	77	J	NS		71	J	NS			
Benzo(a)anthracene	0.002	ug/l	<1.7	U	NS		2.7	J	NS			
Benzo(b)fluoranthene	0.002	ug/l	<1.2	U	NS		3.1	J	NS			
Benzo(k)fluoranthene	0.002	ug/l	<1.3	U	NS		<1.3	U	NS			
Biphenyl (Biphenyl)	5	ug/l	2.4	J	NS		3.5	J	NS			
Chrysene	0.002	ug/l	<1.3	U	NS		2.4	J	NS			
Fluoranthene	50	ug/l	<1.5	U	NS		6.7	J	NS			
Fluorene	50	ug/l	3.1	J	NS		5.3	J	NS			
Indeno(1,2,3-c,d)pyrene	0.002	ug/l	<1.9	U	NS		<1.8	U	NS			
Naphthalene	10	ug/l	580	D	NS		1400	D	NS			
Phenol	1	ug/l	8.5	J	NS		8.2	J	NS			
TAL Metals (SW6010)												
Arsenic	25	ug/l	32.4	J	NS		30.1	J	NS			
Barium	1,000	ug/l	34.8	J	NS		50.8	J	NS			
Beryllium	3	ug/l	<0.13	U	NS		0.3	J	NS			
Cadmium	5	ug/l	<0.35	U	NS		<0.35	U	NS			
Chromium, total	50	ug/l	16.1	J	NS		22.7	J	NS			
Copper	200	ug/l	<3.9	U	NS		4.7	J	NS			
Iron	300	ug/l	1080	J	NS		4970	J	NS			
Lead	25	ug/l	<2.1	U	NS		4.3	J	NS			
Magnesium	35,000	ug/l	18200	J	NS		9110	J	NS			
Manganese	300	ug/l	32.7	J	NS		89	J	NS			
Nickel	100	ug/l	4	J	NS		12.7	J	NS			
Selenium	10	ug/l	<5.4	U	NS		<5.4	U	NS			
Sodium	20,000	ug/l	181,000	J	NS		150,000	J	NS			
Thallium	0.5	ug/l	<6.6	U	NS		<6.6	U	NS			
Zinc	2,000	ug/l	<5.4	U	NS		14.8	J	NS			
Cyanide (SW9012B) (CLADA-01)												
Cyanide	0.20	mg/l	751	J	NS		640	J	NS			
Pesticides (0081B)												
Beta-BHC (Beta-Hexachlorocyclohexane)	0.04	ug/l	0.021	J	NS		<0.020	UJ	<0.020	UJ		
Beta-BHC (Beta-Hexachlorocyclohexane)	0.04	ug/l	0.14	J	NS		<0.020	UJ	<0.020	UJ		
Gamma-BHC (Lindane)	0.05	ug/l	0.14	J	NS		<0.020	UJ	<0.020	UJ		
Gamma-BHC (Lindane)	0.05	ug/l	0.17	J	NS		<0.020	UJ	<0.020	UJ		
PFAS (F37)												
Perfluorooctanesulfonic acid (PFOS)	10	ng/l	15	J	NS		17	J	19			
Perfluorooctanoic acid (PFOA)	10	ng/l	16	J	NS		14	J	17			
Perfluorooctanesulfonic acid (PFOS)	100	ng/l	<5.5	U	NS		0.44	J	0.88			
Ammonia (B350.1)												
Nitrogen, Ammonia (As N)	2	mg/l	249	J	NS	254	252	J	NS			

The numerical value is the concentration of the associated units.

All values above the Class GA standard are highlighted in pink.

The data qualifiers are listed, when applicable, next to the numerical data, see legend for description

LEGEND

- ⊗ MONITORING WELL
A - WELL: SHALLOW FILL
B - WELL: UPPER CLAY
C - WELL: LOWER CLAY
D - WELL: BEDROCK
- TEST PIT
- ▲ SURFACE SOIL SAMPLE
- SURFACE WATER SAMPLE

MW-BCP- ## - Monitoring Well
TP-BCP- ## - Test Pit
SS-BCP- ## - Shallow Soil or Fill Sample
W-BCP- ## - Grab water sample from a pit, sump, tunnel, or basement
SW-BCP- ## - Surface Water Sample
NS - No Sample - Not all parameters are analyzed in all samples

J - Estimated between the method reporting limit and the method detection limit
U - Not detected above the method detection limit shown
D - Result from a sample that was diluted to allow the analysis
B - Analyte was also detected in the associated method blank
UJ - Analyte was not detected above the estimated method detection limit shown



LEGEND AND CHEMICAL BOX KEY
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FIGURE 4 - 1

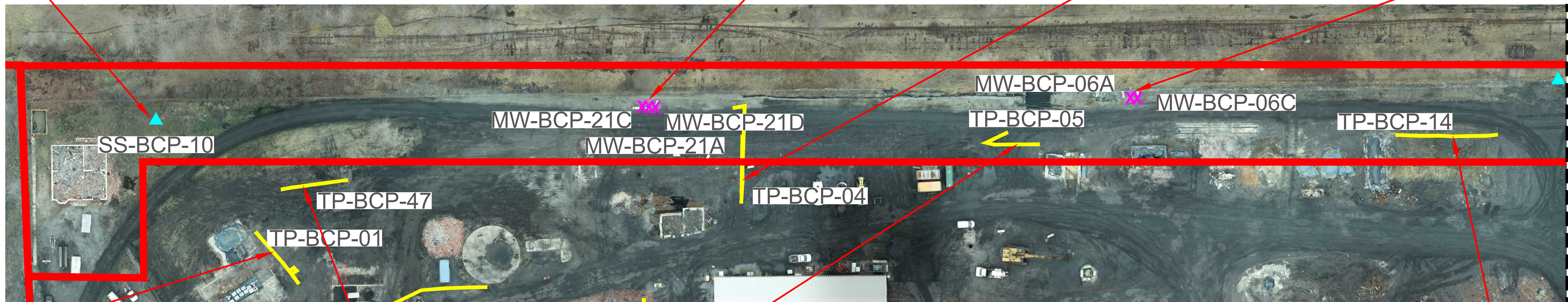
DRAWING NUMBER

Analytes	Part 975 SCOs		Units:	SS-8 CP-10
	Commercial	Industrial		
			Sample Date:	11/10/2020
			Sample Interval:	0 - 2 ft
			Formation:	Shallow Fill
TCL SVOCs (SV#270D)				
Anthracene	500,000	1,000,000	ug/kg	590
Benzo(A)Anthracene	5,600	11,000	ug/kg	3900 D
Benzo(A)Pyrene	1,000	1,100	ug/kg	4700 D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	5500 D
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	1600 D
Chrysene	56,000	110,000	ug/kg	3700 D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	760 D/
Fluoranthene	500,000	1,000,000	ug/kg	5900 D
Fluorene	500,000	1,000,000	ug/kg	180 J
Indene(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	3700 D
Naphthalene	500,000	1,000,000	ug/kg	200 J
Phenanthrene	500,000	1,000,000	ug/kg	2100 D
Pyrene	500,000	1,000,000	ug/kg	5400 D
TAL Metals (SV#010)				
Arsenic	16	16	mg/kg	10.7 N
Lead	1,000	975	mg/kg	61.8
Mercury (SV#7471)				
Mercury	2.8	5.7	mg/kg	0.302
Total Oxidant (SV#012B)				
Cyanide	27	10,000	mg/kg	0.78

Analytes	Part 975 SCOs		Units	MW-BCP-21A		MW-BCP-21A		
	Commercial	Industrial						
			Sample Date:	6/23/2021	6/23/2021			
			Sample Interval:	0 - 1 ft	3 - 4 ft			
			Formation:	Fill	Fill			
TCL SVOCs (SW6270D)								
Anthracene	500,000	1,000,000	ug/g	9400	J	<7.0	U	
Benzo(A)Anthracene	5,600	11,000	ug/g	19000	J	<6.2	U	
Benzo(A)Pyrene	1,000	1,100	ug/g	27000	J	<12.0	U	
Benzo(B)Fluoranthene	5,600	11,000	ug/g	29000	J	<7.0	U	
Benzo(K)Fluoranthene	56,000	110,000	ug/g	8700	J	<6.8	U	
Chrysene	56,000	110,000	ug/g	22000	J	<6.2	U	
Dibenz(A,H)Anthracene	560	1,100	ug/g	3900	J	<9.1	U	
Fluoranthene	500,000	1,000,000	ug/g	57000	J	<11.0	U	
Isoprene	500,000	1,000,000	ug/g	7300	J	<7.8	U	
Indene(1,2,3-C,D)Pyrene	5,600	11,000	ug/g	18000	J	<14.0	U	
Naphthalene	500,000	1,000,000	ug/g	14000	J	<7.8	U	
Phenanthrene	500,000	1,000,000	ug/g	44000	J	<5.9	U	
Pyrene	500,000	1,000,000	ug/g	45000	J	<7.0	U	
TCL Metals (SW610)								
Arsenic	16	16	mg/g	10.1		4.1		
Lead	1,000	3,900	mg/g	54.2		12		
Mercury (SW7471)								
Mercury	2.8	5.7	mg/g	0.2		0.025	J	
Total Cyanide (SW612B)								
Cyanide	27	10,000	mg/g	1.39		<0.19	U	

Analytes	Part 375 SOCs		Units	TP-BGP-04
	Commercial	Industrial		
			Sample Date:	11/11/2020
			Sample Interval:	0 - 1 ft
			Form ation:	Shallow Fill
TOL VOCs (SW6270D)				
Anthracene	5,000,000	1,000,000	µg/kg	580000 D
Benzo(A)Anthracene	5,600	11,000	µg/kg	470000 D
Benzo(A)Pyrene	1,000	1,100	µg/kg	520000 D
Benzo(B)Fluoranthene	5,600	11,000	µg/kg	490000 D
Benzo(K)Fluoranthene	56,000	110,000	µg/kg	190000 D
Chrysene	56,000	110,000	µg/kg	460000 D
Dibenz(A,H)Anthracene	560	1,100	µg/kg	61000 J
Fluoranthene	5,600,000	1,000,000	µg/kg	1900000 D
Fluorene	5,000,000	1,000,000	µg/kg	580000 D
Indene(1,2,3-CD)Pyrene	5,600	11,000	µg/kg	300000 D
Naphthalene	500,000	1,000,000	µg/kg	1900000 D
Phenanthrene	500,000	1,000,000	µg/kg	1900000 D
Pyrene	500,000	1,000,000	µg/kg	1100000 D
TAL Metals (SW6010)				
Aspic	16	16	mg/kg	9.5
Lead	1,000	9,900	mg/kg	10.1
Mercury (SW7471)				
Mercury	2.8	5.7	mg/kg	0.094
Total Oxide (SW6012B)				
Cyanide	27	10,000	mg/kg	17.5

Analytes	Part 375 GCs		Units	MW-BCP-06
	Commercial	Industrial		
			Sample Date:	11/11/2020
			Sample Interval:	0 - 1 ft
			Formation:	Shallow Fill
TCL VOCs (SW6270D)				
n-Hexane	500,000	1,000,000	ug/g	<110 U
Benz(a)Anthracene	5,600	11,000	ug/g	260 J
Benz(a)Pyrene	1,000	1,100	ug/g	260 J
Benz(b)Fluoranthene	5,600	11,000	ug/g	480 J
Benz(g)Fluoranthene	56,000	110,000	ug/g	<140 U
Chrysene	56,000	110,000	ug/g	360 J
Dibenz(A,H)Anthracene	560	1,100	ug/g	<120 U
Fluoranthene	5,600	1,000,000	ug/g	660 U
Pyrene	500,000	1,000,000	ug/g	<89 U
Indene(1,2,3-CD)Pyrene	5,600	11,000	ug/g	250 J
Naphthalene	500,000	1,000,000	ug/g	<99 U
Phenanthrene	500,000	1,000,000	ug/g	370 J
Pyrene	500,000	1,000,000	ug/g	500 J
TCL Metals (SW601D)				
Arsenic	16	16	mg/g	14.5
Lead	1,000	3,900	mg/g	18.5
Mercury (SW471)				
Mercury	2.8	5.7	mg/g	0.047
Total Oxide (SW6012B)				
Cyanide	27	10,000	mg/g	9.85

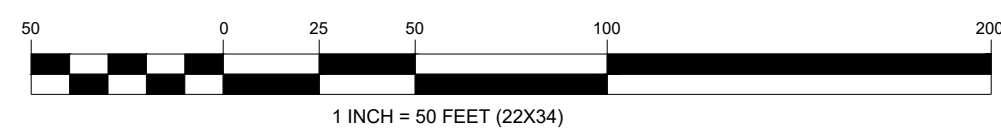


Analytes	Part 375 VOCs		Units	TP-RCP-01
	Commercial	Industrial		
	Sample Date: 11/10/2020			
	Sample Interval: 0 - 1 ft			
	Formation: Shallow Fill			
TCL SVOCs (SW627BD)				
Anthracene	500,000	1,000,000	ug/kg	140000 D
Benzo(a)Anthracene	8,600	11,000	ug/kg	9800 J
Benzo(a)Pyrene	1,000	1,100	ug/kg	15000 D
Benzo(b)Fluoranthene	5,600	11,000	ug/kg	10000 D
Benzo(k)Fluoranthene	56,000	110,000	ug/kg	5000 DJ
Chrysene	56,000	110,000	ug/kg	17000 D
Dibenz(Ah)Anthracene	560	1,100	ug/kg	2500 DJ
Fluoranthene	500,000	1,000,000	ug/kg	26000 D
Quinoline	500,000	1,000,000	ug/kg	12000 D
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	11000 DJ
Naphthalene	500,000	1,000,000	ug/kg	7800 D
Phenanthrene	500,000	1,000,000	ug/kg	33000 D
Pyrene	500,000	1,000,000	ug/kg	25000 D
TAL Metals (SW627D)				
Asbestos	16	16	mg/kg	7.5 J
Lead	1,000	5,900	mg/kg	119
Mercury (SW7471)				
Mercury	2.8	5.7	mg/kg	0.52
Total Cyanide (SW912B)				
Cyanide	27	10,000	mg/kg	0.73

Analytes	Part 375 VOC's		Units	TP-BCP-47	
	Commercial	Industrial			
			Sample Date:	11/18/2020	
			Sample Interval:	0 to 1 ft	
			Formation:	Shallow Fill	
TCL SVOCs (SW8270D)					
Aroclorane	500,000	1,000,000	ug/g	1800	J
Benz(A)Anthracene	5,000	11,000	ug/g	4900	J
Benz(A)Pyrene	1,000	1,100	ug/g	5900	J
Benz(B)Fluoranthene	5,600	11,000	ug/g	7700	J
Benz(K)Fluoranthene	5,000	110,000	ug/g	2400	J
Chrysene	56,000	110,000	ug/g	4300	J
Dibenz(A,H)Anthracene	560	1,100	ug/g	<1360	U
Fluoranthene	1,000,000	1,000,000	ug/g	7600	J
Indeno(1,2,3-C,D)Pyrene	500,000	1,000,000	ug/g	<950	U
Indeno(1,2,3-C,D)Pyrene	5,000	11,000	ug/g	5900	J
Naphthalene	500,000	1,000,000	ug/g	2300	J
Phenanthrene	500,000	1,000,000	ug/g	5100	J
Pyrene	500,000	1,000,000	ug/g	6200	J
TAL Metals (SW6101)					
Arsenic	16	16	mg/kg	NS	
Lead	1,000	3,900	mg/kg	NS	
Mercury (SW7471)					
Mercury	2.0	5.7	mg/kg	NS	
Total Cyanide (SW912B)					
Cyanide	27	10,000	mg/kg	NS	

Analytes	Part 375 SOCs		Units	TP-BGP-B5
	Commercial	Industrial		
	Sample Date:			
	0 - 1 ft			
	Formation:		Shallow Fill	
TCL SVOCs (SWB270D)				
Aroclor 1248	500,000	1,000,000	ug/kg	9200
Benzo(a)Anthracene	5,600	11,000	ug/kg	40000
Benzo(a)Pyrene	5,600	1,100	ug/kg	58000
Benzo(b)Fluoranthene	5,500	11,000	ug/kg	72000
Benzo(k)Fluoranthene	56,000	110,000	ug/kg	22000
Chrysene	56,000	110,000	ug/kg	49000
Dibenz(A,H)Anthracene	5600	1,100	ug/kg	10000
Fluoranthene	500,000	1,000,000	ug/kg	85000
Fluorene	500,000	1,000,000	ug/kg	4100
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	40000
Naphthalene	500,000	1,000,000	ug/kg	6000
Phenanthrene	500,000	1,000,000	ug/kg	46000
Pyrene	500,000	1,000,000	ug/kg	73000
TAL Metals (SW6010)				
Arsenic	16	16	mg/kg	9.4
Lead	1,000	3,900	mg/kg	1520
Mercury (SW7471)				
Mercury	2.6	5.7	mg/kg	0.286
Total Cyanide (SW60120)				
Cyanide	27	10,000	mg/kg	4.48

Analytes	Part 375 SCOs		Units	TP-BCP 14	TP-BCP 14
	Commercial	Industrial			
	Sample Date:		11/10/2020	11/10/2020	
	Sample Interval:		0 - 1 ft	0 - 1 ft (DUP)	
	Formation:		Shallow Fill	Shallow Fill	
TCL SVOCs (SW8270 D)					
Anthracene	500,000	1,000,000	ug/kg	1100	9300 D
Benzo(a)Anthracene	5,600	11,000	ug/kg	2900	33000 D
Benzo(a)Pyrene	1,000	1,100	ug/kg	4000	39000 D
Benzo(b)Fluoranthene	5,600	11,000	ug/kg	6400	48000 D
Benzo(k)Fluoranthene	56,000	110,000	ug/kg	1900	16000 D
Chrysene	56,000	110,000	ug/kg	4000	37000 D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	980	6800 D
Fluoranthene	500,000	1,000,000	ug/kg	5500	77000 D
Fluorene	500,000	1,000,000	ug/kg	210	1600 D
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	4000	32000 D
Naphthalene	500,000	1,000,000	ug/kg	1000	3100 D
Phenanthrene	500,000	1,000,000	ug/kg	2900	47000 D
Pyrene	500,000	1,000,000	ug/kg	4800	63000 D
TAL Metals (SW6101)					
Arsenic	16	16	mg/kg	7.6	8.8 J
Lead	1,000	3,900	mg/kg	42.8	54.9
Mercury (SW7471)					
Mercury	2.6	5.7	mg/kg	0.193	0.168
Total Cyanide (SW9120)					
Cyanide	27	10,000	mg/kg	1.58	2.44



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BCP SITE No. C915353

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FIGURE 4 - 2

DRAWING NUMBER
AOI 1 WEST

MATCHLINE AOI 1 WEST

Analytes	Part 375 SEOs		Units	SSRCP-11	
	Commercial	Industrial			
	Sample Dates				11/16/2020
	Sample Interval:				0 - 2 ft
		Form of use:		Shallow Fill	
TEL SVOCs (SW82700)					
Anthracene	500,000	1,000,000	ug/kg	<150 U	
Benz[a]Anthracene	5,000	11,000	ug/kg	<150 U	
Benz[a]Pyrene	1,000	1,100	ug/kg	<180 U	
Benz[b]Fluoranthene	5,000	11,000	ug/kg	290 J	
Benz[k]Fluoranthene	55,000	110,000	ug/kg	<150 U	
Chrysene	55,000	110,000	ug/kg	230 J	
Dibenz[A,h]Anthracene	560	1,100	ug/kg	<150 U	
Fluoranthene	500,000	1,000,000	ug/kg	270 J	
Fluorene	500,000	1,000,000	ug/kg	<110 U	
Indeno[1,2,3-cd]Pyrene	5,000	11,000	ug/kg	<150 U	
Naphthalene	500,000	1,000,000	ug/kg	190 J	
Phenanthrene	500,000	1,000,000	ug/kg	290 J	
Pyrene	500,000	1,000,000	ug/kg	210 J	
TAL Metals (SW8610)					
Arsenic	16	16	mg/kg	18.5 J	
Lead	1,000	3,900	mg/kg	10.2	
Mercury (SW7471)					
Mercury	2.6	5.7	mg/kg	0.899	
Total Cyanide (SW9612B)					
Cyanide	27	10,000	mg/kg	2.53	

Analytes	Part 375 SEOs		Units	SS-BCP-02	
	Commercial	Industrial	Sample Dates:	11/11/2020	
	Sample Intervals:			0 - 1 ft	
	Part of Date:			Shallow (0-10)	
	TEL SVOCs (SW82700)				
	TEL SVOCs (SW82700)				
Anthracene	500,000	1,000,000	µg/kg	3300	CP
Benz[a]Anthracene	5,000	11,000	µg/kg	10000	D
Benz[a]Pyrene	1,000	1,100	µg/kg	10000	D
Benz[b]Fluoranthene	5,000	11,000	µg/kg	10000	D
Benz[k]Fluoranthene	55,000	110,000	µg/kg	5000	D
Chrysene	55,000	110,000	µg/kg	12000	D
Dibenz[A,h]Anthracene	560	1,100	µg/kg	2900	CP
Fluoranthene	500,000	1,000,000	µg/kg	15000	D
Fluorene	500,000	1,000,000	µg/kg	910	D
Indeno[1,2,3-cd]Pyrene	5,000	11,000	µg/kg	12000	D
Naphthalene	500,000	1,000,000	µg/kg	5200	D
Phenanthrene	500,000	1,000,000	µg/kg	6000	D
Pyrene	500,000	1,000,000	µg/kg	15000	D
TAL Metals (SW8610)					
Arsenic	16	16	mg/kg	0.6	
Lead	1,000	3,900	mg/kg	30.1	
Mercury (SW7471)					
Mercury	2.6	5.7	mg/kg	0.35	
Total Cyanide (SW9612B)					
Cyanide	27	10,000	mg/kg	2.22	

Analytes	Part 375 SEOs		Units	SS-RP-03
	Commercial	Industrial		
	Sample Dates: 11/11/2020			
	Sample Interval: 0 - 1 ft			
	Formulation: Shallow PM			
	TEL SVOCs (SW8270)			
Anthracene	500,000	1,000,000	ug/kg	3400
Benz[a]Anthracene	5,000	11,000	ug/kg	24000 D
Benz[a]Pyrene	1,000	1,100	ug/kg	31000 D
Benz[b]Fluoranthene	5,000	11,000	ug/kg	41000 D
Benz[k]Fluoranthene	55,000	110,000	ug/kg	12000 D
Chrysene	55,000	110,000	ug/kg	25000 D
Dibenz[A,h]Anthracene	560	1,100	ug/kg	3600
Fluoranthene	500,000	1,000,000	ug/kg	54000 D
Fluorene	500,000	1,000,000	ug/kg	670 J
Indeno[1,2,3-cd]Pyrene	5,000	11,000	ug/kg	25000 D
Naphthalene	500,000	1,000,000	ug/kg	2600
Phenanthrene	500,000	1,000,000	ug/kg	11000 D
Pyrene	500,000	1,000,000	ug/kg	40000 D
TAL Metals (SW8610)				
Arsenic	16	16	mg/kg	9.3
Lead	1,000	3,900	mg/kg	46.8
Mercury (SW7471)				
Mercury	2.6	5.7	mg/kg	8.2
Total Cyanide (SW9612B)				
Cyanide	27	10,000	mg/kg	1.47

Analytes	Part 375 SVOCs		Units	SS-BCP-12
	Commercial	Industrial		
	Sample Dates:			
	Sample Interval:			
	Part of date			
TEL SVOCs (SW8270)		Shallow (0-10)		
Anthracene	500,000	1,000,000	ug/kg	570
Benz[a]Anthracene	5,000	11,000	ug/kg	1700
Benz[a]Pyrene	1,000	1,100	ug/kg	2000
Benz[b]Fluoranthene	5,000	11,000	ug/kg	3300
Benz[k]Fluoranthene	55,000	110,000	ug/kg	1100
Chrysene	55,000	110,000	ug/kg	2100
Dibenz[A,h]Anthracene	560	1,100	ug/kg	450
Fluoranthene	500,000	1,000,000	ug/kg	2700
Fluorene	500,000	1,000,000	ug/kg	<110 U
Indeno[1,2,3-cd]Pyrene	5,000	11,000	ug/kg	2000
Naphthalene	500,000	1,000,000	ug/kg	420 J
Phenanthrene	500,000	1,000,000	ug/kg	1900
Pyrene	500,000	1,000,000	ug/kg	2300
TAL Metals (SW8610)				
Arsenic	16	16	mg/kg	14.2
Lead	1,000	3,900	mg/kg	96.1
Mercury (SW7471)				
Mercury	2.6	5.7	mg/kg	0.188
Total Cyanide (SW9612B)				
Cyanide	27	10,000	mg/kg	1.23

Analytes	Part 375 SEOs		Units	MW-887-23A	
	Commercial	Industrial			
	Sample Dates: 6/23/2021				
	Sample Interval: 0 - 1 ft				
			Form Date:	FW	
TEL SVOCs (SW82700)					
Anthracene	500,000	1,000,000	ug/kg	27000	J
Benz[a]Anthracene	5,000	11,000	ug/kg	81000	D
Benz[a]Pyrene	1,000	1,100	ug/kg	93000	J
Benz[b]Fluoranthene	5,000	11,000	ug/kg	110000	J
Benz[k]Fluoranthene	55,000	110,000	ug/kg	55000	D
Chrysene	55,000	110,000	ug/kg	81000	D
Dibenz[A,h]Anthracene	560	1,100	ug/kg	12000	
Fluoranthene	500,000	1,000,000	ug/kg	23000	D
Fluorene	500,000	1,000,000	ug/kg	12000	
Indeno[1,2,3-cd]Pyrene	5,000	11,000	ug/kg	63000	D
Naphthalene	500,000	1,000,000	ug/kg	4900	J
Phenanthrene	500,000	1,000,000	ug/kg	12000	D
Pyrene	500,000	1,000,000	ug/kg	18000	D
TAL Metals (SW8610)					
Arsenic	16	16	mg/kg	7.5	J
Lead	1,000	3,900	mg/kg	15.9	
Mercury (SW7471)					
Mercury	2.6	5.7	mg/kg	0.311	
Total Cyanide (SW9612B)					
Cyanide	27	10000	mg/kg	0.94	

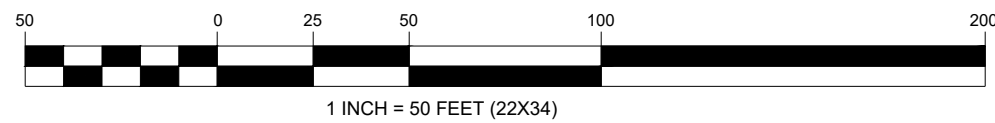


Analytes	Part 375 SEOs		Units	MW-SEP-226	
	Commercial	Industrial			
	Sample Dates:				
	Sample Interval:				
	Form factor:				
	PH				
TEL SVOCs (SW8270)					
Anthracene	500,000	1,000,000	ug/kg	310	J
Benz[a]Anthracene	5,000	11,000	ug/kg	1000	
Benz[a]Pyrene	1,000	1,100	ug/kg	1000	
Benz[b]Fluoranthene	5,000	11,000	ug/kg	1700	
Benz[k]Fluoranthene	55,000	110,000	ug/kg	540	
Chrysene	55,000	110,000	ug/kg	1100	
Dibenz[A,h]Anthracene	560	1,100	ug/kg	250	J
Fluoranthene	500,000	1,000,000	ug/kg	1000	
Fluorene	500,000	1,000,000	ug/kg	130	J
Indeno[1,2,3-cd]Pyrene	5,000	11,000	ug/kg	1000	
Naphthalene	500,000	1,000,000	ug/kg	910	J
Phenanthrene	500,000	1,000,000	ug/kg	1400	
Pyrene	500,000	1,000,000	ug/kg	1500	
TAL Metals (SW8610)					
Arsenic	16	16	mg/kg	6.7	J
Lead	1,000	3,900	mg/kg	17.2	
Mercury (SW7471)					
Mercury	2.6	5.7	mg/kg	0.13	
Total Cyanide (SW9612B)					
Cyanide	27	10,000	mg/kg	1.85	

Analytes	Part 375 SEOs		Limits	TP-BCP-38	
	Commercial	Industrial			
	Sample Dates: 11/3/2020				
	Sample Interval: 0 - 1 ft				
	Formulation: Shallow (0-10)				
	TEL SVOCs (SW82700)				
Anthracene	500,000	1,000,000	ug/kg	27000	D
Benz[a]Anthracene	5,000	11,000	ug/kg	91000	D
Benz[a]Pyrene	1,000	1,100	ug/kg	90000	D
Benz[b]Fluoranthene	5,000	11,000	ug/kg	110000	D
Benz[k]Fluoranthene	55,000	110,000	ug/kg	50000	D
Chrysene	55,000	110,000	ug/kg	80000	D
Dibenz[A,h]Anthracene	560	1,100	ug/kg	15000	D
Fluoranthene	500,000	1,000,000	ug/kg	180000	D
Fluorene	500,000	1,000,000	ug/kg	110000	D
Indeno[1,2,3-cd]Pyrene	5,000	11,000	ug/kg	65000	D
Naphthalene	500,000	1,000,000	ug/kg	3800	D
Phenanthrene	500,000	1,000,000	ug/kg	95000	D
Pyrene	500,000	1,000,000	ug/kg	140000	D
TAL Metals (SW8610)					
Arsenic	16	16	mg/kg	11.6	
Lead	1,000	3,900	mg/kg	151	
Mercury (SW7471)					
Mercury	2.6	5.7	mg/kg	1.4	J
Total Cyanide (SW9612B)					
Cyanide	27	10,000	mg/kg	8.34	

Analytes	Part 375 SEOs		Units	SS-BCP-13	SS-BCP-13	SS-BCP-13	
	Commercial	Industrial					
	Sample Dates: 11/11/2020						
	Sample Interval: 0 - 2 ft						
	Formulation: Surface Soil						
	Surface Soil						
TEL SVOCs (SW8270)							
Anthracene	500,000	1,000,000	ug/kg	370	J	NS	520
Benz[a]Anthracene	5,000	11,000	ug/kg	1300		NS	820
Benz[a]Pyrene	1,000	1,100	ug/kg	1900		NS	900
Benz[b]Fluoranthene	5,000	11,000	ug/kg	2200		NS	1300
Benz[k]Fluoranthene	55,000	110,000	ug/kg	720		NS	600
Chrysene	55,000	110,000	ug/kg	1400		NS	1200
Dibenz[A,h]Anthracene	560	1,100	ug/kg	310	J	NS	190
Fluoranthene	500,000	1,000,000	ug/kg	2300		NS	1300
Fluorene	500,000	1,000,000	ug/kg	150	J	<110	U
Indeno[1,2,3-CD]Pyrene	5,000	11,000	ug/kg	1400		NS	570
Naphthalene	500,000	1,000,000	ug/kg	380	J	NS	290
Phenanthrene	500,000	1,000,000	ug/kg	2300		NS	2500
Pyrene	500,000	1,000,000	ug/kg	2300		NS	1300
TAL Metals (SW8610)							
Arsenic	16	16	mg/kg	13.1		NS	8.7
Lead	1,000	3,900	mg/kg	50.5		NS	27.7
Mercury (SW7471)							
Mercury	2.6	5.7	mg/kg	0.227		NS	0.102
Total Cyanide (SW9612B)							
Cyanide	27	10,000	mg/kg	NS		NS	1.73

D



Analytes	Part 375 SCOs		Units	MW-BCP-21A		MW-BCP-21A	
	Commercial	Industrial		Sample Date: 6/23/2021		6/23/2021	
	Sample Interval: 6 - 7 ft			13 - 14 ft			
	Formation: Clay			Clay			
TAL Metals (SW6010)							
Barium	400	10,000	mg/kg	128		98.3	
Mercury (SW7471)							
Mercury	2.8	5.7	mg/kg	0.016	J	<0.015	U
Total Cyanide (SW9012B)							
Cyanide	27	10,000	mg/kg	<0.17	U	<0.17	U

Analytes	Part 375 SCDs		Units	MW-BCP-21D	
	Commercial	Industrial		Sample Date: 6/25/2021	
				Sample Interval: 45 - 47 ft	
				Formation: Clay	
TAL Metals (SW6010)					
Barium	400	10,000	mg/kg	131	
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	<0.017	U
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	<0.23	U

Analytes	Part 375 SCOs		Units	MW-BCP-06		MW-BCP-06	
	Commercial	Industrial		Sample Date: 11/11/2020		11/11/2020	
	Sample Interval: 5 - 6 ft			8 - 9 ft			
	Formation: Clay			Clay			
TAL Metals (SW6010)							
Barium	400	10,000	mg/kg	142		87.3	
Mercury (SW7471)							
Mercury	2.8	5.7	mg/kg	0.027	J	0.032	J
Total Cyanide (SW9012B)							
Cyanide	27	10,000	mg/kg	<0.17	U	1.03	

Analytes	Part 375 SCOs		Units	TP-BCP-01	
	Commercial	Industrial		Sample Date: 11/10/2020	
	Sample Interval: 54 - 54.5 in			Formation: Clay	
TAL Metals (SW6010)					
Barium	400	10,000	mg/kg	127	J
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.034	J
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	<0.19	U

Analytes	Part 375 SCOs		Units	TP-BCP-47	
	Commercial	Industrial		Sample Date: 11/18/2020	
				Sample Interval: 35 - 35.5 in	
				Formation: Clay	
TAL Metals (SW6010)					
Barium	400	10,000	mg/kg	NS	
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	NS	
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	NS	

Analytes	Part 375 SCOs		Units	TP-BCP-04	
	Commercial	Industrial		Sample Date: 11/11/2020 Sample Interval: 62 - 62.5 in Formation: Clay	
TAL Metals (SW6010)					
Barium	400	10,000	mg/kg	211	
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.027	
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	<0.18	

Analytes	Part 375 SCOs		Units	TP-BCP-14	
	Commercial	Industrial		Sample Date: 11/10/2020	
				Sample Interval: 40 - 40.5 in	
				Formation: Clay	
Total Metals (SW6010)					
Barium	400	10,000	mg/kg	37.6	J
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.036	J
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	NS	



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FIGURE 4 - 4

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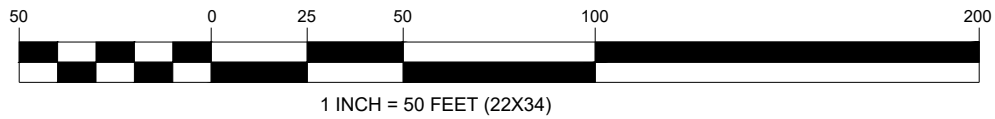
Analytes	Part 375 SCDs		Units	TP-BCP-40		TP-BCP-40	
	Commercial	Industrial		Sample Date:		11/4/2020	11/4/2020
				Sample Interval:		64 - 64.5	DUP (64 - 64.5 in)
				Formation:		Clay	Clay
TAL Metals (SW6010)							
Barium	400	10,000	mg/kg	105		134	
Mercury (SW7471)							
Mercury	2.8	5.7	mg/kg	0.03	J	0.027	J
Total Cyanide (SW9012B)							
Cyanide	27	10,000	mg/kg	0.22	J	0.24	J

Analytes	Part 375 SCDs		Units	MW-BCP-23A	
	Commercial	Industrial	Sample Date:	6/24/2021	
				Sample Interval:	5 - 6 ft
			Formation:	Clay	
	TAL Metals (SW6010)				
Barium	400	10,000	mg/kg	234	J
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.075	
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	0.52	

Analytes	Part 375 SCDs		Units	MW-BCP-22A	
	Commercial	Industrial			
	Sample Date:			6/24/2021	
	Sample Interval:			5 - 6 ft	
	Formation:			Clay	
TAL Metals (SW6010)					
Barium	400	10,000	mg/kg	186	J
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.028	J
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	<0.17	U

Analytes	Part 375 SCDs		Units	TP-BCP-46	TP-BCP-46	TP-BCP-46	
	Commercial	Industrial					
				Sample Date:	11/5/2020	11/5/2020	11/5/2020
				Sample Interval:	24 - 48 in	46 - 46.5 in	50 - 50.5 in
				Formation:	Clay	Clay	Clay
TAL Metals (SW6010)							
Barium	400	10,000	mg/kg	39.3	619	223	
Mercury (SW7471)							
Mercury	2.8	5.7	mg/kg	0.337	3.5	0.032	
Total Cyanide (SW9012B)							
Cyanide	27	10,000	mg/kg	13.3	1140	1.59	

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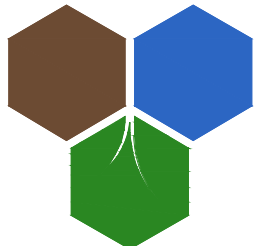
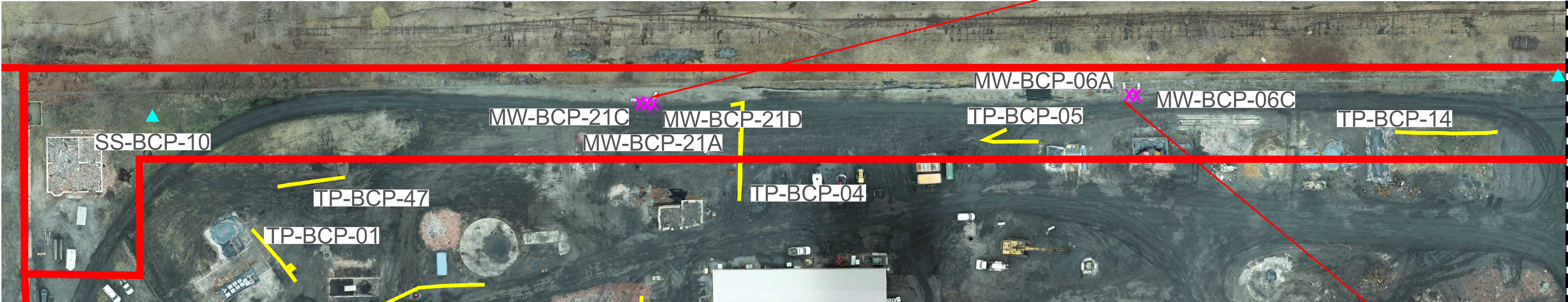
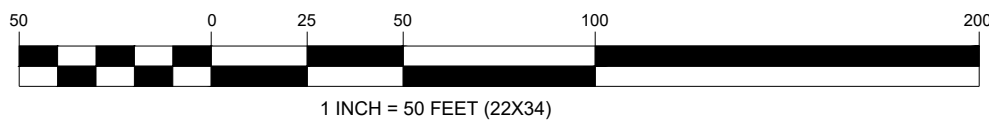


FIGURE 4 - 5

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Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-21A	
			Sample Date	9/24/2021
			Screen Interval (ft bgs):	2.0 - 5.0
			Screened Formation:	Fill
TCL VOCs (SW8260C)				
Benzene	1	ug/l	1.1	J
TCL SVOCs (SW8270D)				
Benzo(A)Anthracene	0.002	ug/l	<1.6	U
Benzo(B)Fluoranthene	0.002	ug/l	<1.2	U
Benzo(K)Fluoranthene	0.002	ug/l	<1.3	U
Chrysene	0.002	ug/l	<1.2	U
Indeno(1,2,3-C,D)Pyrene	0.002	ug/l	<1.8	U
TAL Metals (SW6010)				
Arsenic	25	ug/l	<5.5	U
Iron	300	ug/l	2550	J
Lead	25	ug/l	<2.1	U
Magnesium	35,000	ug/l	28400	J
Manganese	300	ug/l	418	J
Selenium	10	ug/l	<6.4	U
Sodium	20,000	ug/l	135000	J
PFAS (E537)				
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/l	NS	
Perfluorobutanoic Acid	100	ng/l	NS	
Perfluorooctanoic acid (PFOA)	6.7	ng/l	NS	
1H,1H,2H,2H-Perfluorooctane sulfonic acid	100	ng/l	NS	
Cyanide (SW9012B/ KELEDA-01)				
Cyanide	0.20	mg/l	<0.040	U
Ammonia (E350.1)				
Nitrogen, Ammonia (As N)	2	mg/l	3.72	J

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-SCP-05A		MW-BCP-06A		MW-BCP-100A (DUP 06A)			
			Sample Date		1/13/2021		9/22/2021		9/22/2021	
			Screen Interval (ft bgs):		2.0 - 4.0		2.0 - 4.0		2.0 - 4.0	
			Screened Formation:		Fill		Fill		Fill	
TCL VOCs (SW8260C)										
Benzene	1	ug/l	<0.20	U	<0.20	U	<0.20	U		
TCL SVOCs (SW8270D)										
Benzo(A)Anthracene	0.002	ug/l	<1.5	U	<1.6	U	<1.6	U		
Benzo(B)Fluoranthene	0.002	ug/l	<1.1	U	1.2	J	<1.2	U		
Benzo(K)Fluoranthene	0.002	ug/l	<1.1	U	<1.3	U	<1.3	U		
Chrysene	0.002	ug/l	<1.1	U	<1.2	U	<1.2	U		
Indeno(1,2,3-C,D)Pyrene	0.002	ug/l	<1.6	U	<1.8	U	<1.8	U		
TAL Metals (SW6010)										
Arsenic	25	ug/l	<5.5	U	23.2	J	8.8	J		
Chromium, Total	50	ug/l	<0.59	U	66.1	J	31.3	J		
Copper	200	ug/l	<3.9	U	88.1	J	41.9	J		
Iron	300	ug/l	641	J	97500	J	42900	J		
Lead	25	ug/l	<2.1	U	161	J	70.4	J		
Manganese	300	ug/l	940	J	3600	J	2090	J		
Selenium	10	ug/l	<6.4	U	<6.4	U	<6.4	U		
Cyanide (SW9012B/RELADA-01)										
Cyanide	0.20	mg/l	0.0071	J	0.045	J	<0.040	U		
PFAS (E537)										
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/l	9.5	J	13	J	NS			
Perfluorobutanoic Acid	100	ng/l	24	J	8.1	J	NS			
Perfluorooctanoic acid (PFOA)	6.7	ng/l	12	J	11	J	NS			
1H,1H,2H,2H-Perfluorooctane sulfonic acid	100	ng/l	<0.55	U	0.64	J	NS			
Ammonia (E350.1)										
Nitrogen, Ammonia (As N)	2	mg/l	NS		NS		NS			

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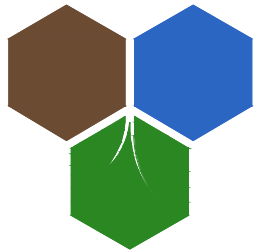


FIGURE 4 - 6

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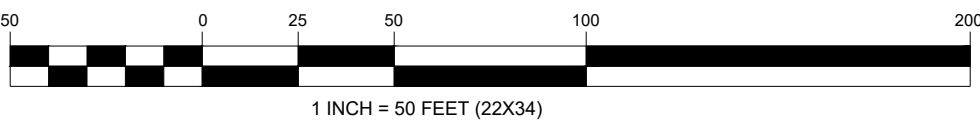
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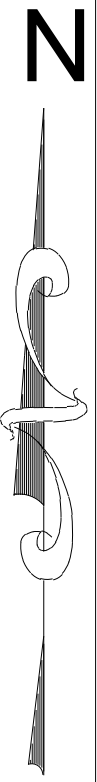
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Analytes	CRITICAL ACTIONABLE CONCENTRATIONS		MW-BCP-22A		MW-BCP-23A	
	Minimum Concentration	Guidance Value	Sample Date: 9/23/2021		Sample Date: 9/23/2021	
			Screen Interval (ft bgs): 2.0 - 5.0		Screen Interval (ft bgs): 2.0 - 5.0	
			Screened Formation:		Screened Formation:	
			Screened Formation:		Screened Formation:	
TEL VOCs (BW6260)						
Benzene		1	ug/l	<0.20	U	NS
TEL VOCs (BW6270)						
Benz[a]Anthracene		0.002	ug/l	1.8	J	NS
Benz[a]Fluoranthene		0.002	ug/l	1.6	J	NS
Benz[k]Fluoranthene		0.002	ug/l	1.3	U	NS
Chrysene		0.002	ug/l	1.3	J	NS
Indeno[1,2,3-CD]Pyrene		0.002	ug/l	1.3	U	NS
TAL Metals (BW610)						
Arsenic		25	ug/l	22.2		NS
Iron		3000	ug/l	1500		NS
Lead		25	ug/l	12.5	J	NS
Magnesium		35000	ug/l	17500		NS
Manganese		300	ug/l	150		NS
Selenium		10	ug/l	1.4	U	NS
Sodium		20000	ug/l	17900		NS
Zinc		2000	ug/l	1000		NS
CYANIDE (BW6126 / RLADA B1)						
Cyanide		0.20	mg/l	<0.1		NS
AMMONIA (BW611)						
Nitrogen, Ammonia (As N)		2	mg/l	1.93		NS
NITROGEN, AMMONIA (As N) (BW611)						
Nitrogen, Ammonia (As N)		0.04	ug/l	NS		NS
Nitrogen, Nitrate (As N) (BW611)		0.04	ug/l	NS		NS
Gamma HCL (Lundberg)		0.05	ug/l	NS		NS
Gamma HCL (Petersen)		0.05	ug/l	NS		NS
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)						
Polycyclic aromatic hydrocarbon (PAHs)		2.7	ng/l	NS		NS
Polycyclic aromatic hydrocarbon (PAHs)		6.7	ng/l	NS		NS
1,2,3,4-DICHLOROPOLYCYCLIC AROMATIC ACID		800	ng/l	NS		NS
CHLORIDE (BW612)						
Chloride, Ammonium (As Cl)		2	mg/l	0.93		0.93



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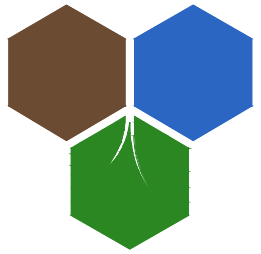
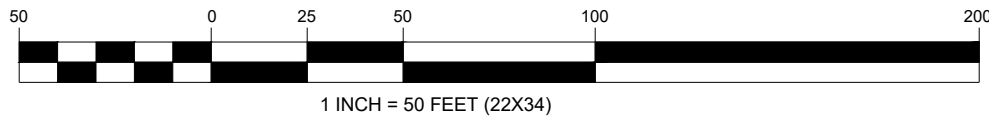


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Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-06C			
			Sample Date	1/13/2021	9/22/2021	
			Screen Interval (ft bgs):	30 - 40	30 - 40	
Screened Formation:		Lower Clay	Lower Clay			
TCL SVOCs (SW8270D)						
Phenol	1	ug/l	<0.91	U	3.2	J
TAL Metals (SW6010)						
Arsenic	25	ug/l	7	J	25	
Beryllium	3	ug/l	1.8	J	3.5	
Chromium, Total	50	ug/l	61.3		119	
Iron	300	ug/l	46500		107000	J
Lead	25	ug/l	16.3	J	41.6	
Magnesium	35,000	ug/l	124000		84500	
Manganese	300	ug/l	913		2290	
Sodium	20,000	ug/l	114000		67300	

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-21C	
			Sample Date	9/24/2021
			Screen Interval (ft bgs):	29 - 39
			Screened Formation:	Lower Clay
TCL SVOCs (SW8270D)				
Phenol	1	ug/l	<1.0	U
TAL Metals (SW6010)				
Arsenic	25	ug/l	<5.5	U
Beryllium	3	ug/l	<0.13	U
Chromium, Total	50	ug/l	5	J
Iron	300	ug/l	1320	
Lead	25	ug/l	<2.1	U
Magnesium	35,000	ug/l	168000	
Manganese	300	ug/l	15.1	
Sodium	20,000	ug/l	118000	

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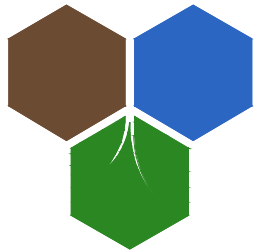


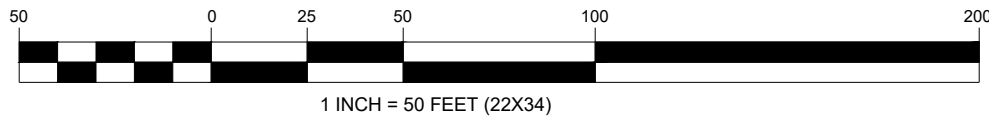
FIGURE 4 - 8

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D



MATCHLINE A01 1 EAST

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-21D	MW-BCP-97D (DUP 21D)	
			Sample Date:	9/24/2021	9/24/2021
			Borehole Interval (ft bgs):	53.5 - 63.5	53.5 - 63.5
			Formation:	Bedrock	Bedrock
TAL Metals (SW6010)					
Iron	300	ug/l	6780	6550	
Magnesium	35,000	ug/l	59000	58000	
Sodium	20,000	ug/l	65800	64900	



INVENTUM ENGINEERING
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170
(703) 722-6049
www.InventumEng.com

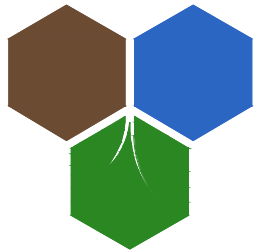


FIGURE 4 - 9

DRAWING NUMBER
A01 1 WEST

BEDROCK ZONE GROUNDWATER DATA - A01 1 WEST
RIVERVIEW INNOVATION & TECHNOLOGY
CAMPUS, INC.
3875 RIVER ROAD
TONAWANDA, NEW YORK 14150
BCP SITE No. C915353

DRAWING BY	RB
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Analytes	Part 375 SEDs		Units	TP BCP-01	
	Commercial	Industrial		Sample Date: Sample Interval:	0 - 1 ft Shallow Fill
TEL SVOCs (SV06/200)					
Benz(a)Anthracene	5,600	11,000	ug/kg	3000	J
Benz(a)Pyrene	1,000	1,100	ug/kg	15000	D
Benz(b)Fluoranthene	5,600	11,000	ug/kg	18000	D
Benz(k)Fluoranthene	56,000	110,000	ug/kg	5000	DJ
Chrysene	56,000	110,000	ug/kg	17000	D
Dibenz(a,h)Anthracene	560	1,100	ug/kg	2000	DJ
Fluoranthene	560,000	1,000,000	ug/kg	26000	D
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	11000	DJ
Pyrene	560,000	1,000,000	ug/kg	25000	D
TAL Metals (SV60/10)					
Arsenic	16	16	mg/kg	7.5	J
Copper	270	10,000	mg/kg	205	D
Mercury (SV07/71)					
Mercury	2.8	5.7	mg/kg	0.52	
Total Cyanide (SV09/120)					
Cyanide	27	10,000	mg/kg	0.73	

Analytes	Part 375 SEDs		Units	MW BCP-05
	Commercial	Industrial	Sample Date: 11/12/2020	Sample Interval: 0 - 1 ft
	Formations: Shallow Fill			
	TEL SVOCs (SV06/200)			
Benz(a)Anthracene	5,600	11,000	ug/kg	6200
Benz(a)Pyrene	1,000	1,100	ug/kg	9000
Benz(b)Fluoranthene	5,600	11,000	ug/kg	11000
Benz(k)Fluoranthene	56,000	110,000	ug/kg	9500
Chrysene	56,000	110,000	ug/kg	7300
Dibenz(a,h)Anthracene	560	1,100	ug/kg	1800
Fluoranthene	560,000	1,000,000	ug/kg	13000
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	7000
Pyrene	560,000	1,000,000	ug/kg	13000
TAL Metals (SV60/10)				
Arsenic	16	16	mg/kg	4.7
Copper	270	10,000	mg/kg	22.4
Mercury (SV07/71)				
Mercury	2.8	5.7	mg/kg	3.7
Total Cyanide (SV09/120)				
Cyanide	27	10,000	mg/kg	13.3

Analytes	Part 375 SEDs		Units	MW BCP-10
	Commercial	Industrial		
	Sample Date:			
	Sample Interval:			
	Formations:			
	Shallow Fill			
TEL SVOCs (SV06/200)				
Benz(a)Anthracene	5,600	11,000	ug/kg	50000 D
Benz(a)Pyrene	1,000	1,100	ug/kg	50000 D
Benz(b)Fluoranthene	5,600	11,000	ug/kg	50000 D
Benz(k)Fluoranthene	56,000	110,000	ug/kg	16000 D
Chrysene	56,000	110,000	ug/kg	30000 D
Dibenz(a,h)Anthracene	560	1,100	ug/kg	30000 DJ
Fluoranthene	560,000	1,000,000	ug/kg	52000 D
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	17000 D
Pyrene	560,000	1,000,000	ug/kg	51000 D
TAL Metals (SV60/10)				
Arsenic	16	16	mg/kg	8.2 J
Copper	270	10,000	mg/kg	24.1
Mercury (SV07/71)				
Mercury	2.8	5.7	mg/kg	1.1
Total Cyanide (SV09/120)				
Cyanide	27	10,000	mg/kg	1.29

Analytes	Part 375 SEDs		Units	SS REP-01
	Commercial	Industrial	Sample Date:	11/18/2020
			Sample Interval:	0 - 1 ft
			Formations:	Shallow Fill
	TEL SVOCs (SV06/200)			
Benz(a)Anthracene	5,600	11,000	ug/kg	8300
Benz(a)Pyrene	1,000	1,100	ug/kg	8500
Benz(b)Fluoranthene	5,600	11,000	ug/kg	12000
Benz(k)Fluoranthene	56,000	110,000	ug/kg	3900
Chrysene	56,000	110,000	ug/kg	10000
Dibenz(a,h)Anthracene	560	1,100	ug/kg	2100
Fluoranthene	560,000	1,000,000	ug/kg	12000
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	5900
Pyrene	560,000	1,000,000	ug/kg	8400
TAL Metals (SV60/10)				
Arsenic	16	16	mg/kg	3.3
Copper	270	10,000	mg/kg	21.2
Mercury (SV07/71)				
Mercury	2.8	5.7	mg/kg	0.138
Total Cyanide (SV09/120)				
Cyanide	27	10,000	mg/kg	4.22

Analytes	Part 375 SEDs		Units	TP BCP-08
	Commercial	Industrial		
	Sample Date: 11/12/2020			
	Sample Interval: 0 to 1 ft			
Formations: Shallow Fill				
TEL SVOCs (SV06/200)				
Benz(a)Anthracene	5,600	11,000	ug/kg	12000 D
Benz(a)Pyrene	1,000	1,100	ug/kg	10000 D
Benz(b)Fluoranthene	5,600	11,000	ug/kg	9400 D
Benz(k)Fluoranthene	56,000	110,000	ug/kg	4500 D
Chrysene	56,000	110,000	ug/kg	14000 D
Dibenz(a,h)Anthracene	560	1,100	ug/kg	2800 DJ
Fluoranthene	560,000	1,000,000	ug/kg	10000 D
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	7500 D
Pyrene	560,000	1,000,000	ug/kg	15000 D
TAL Metals (SV60/10)				
Arsenic	16	16	mg/kg	4.1
Copper	270	10,000	mg/kg	21
Mercury (SV07/71)				
Mercury	2.8	5.7	mg/kg	0.208
Total Cyanide (SV09/120)				
Cyanide	27	10,000	mg/kg	1.93

Analytes	Part 375 SEDs		Units	TP BCP-02
	Commercial	Industrial		
	Sample Date: 11/11/2020			
	Sample Interval: 9 - 12 in			
Formations:		Shallow Fill		
TEL SVOCs (SV06/200)				
Benz(a)Anthracene	5,600	11,000	ug/kg	6000 D
Benz(a)Pyrene	1,000	1,100	ug/kg	6000 D
Benz(b)Fluoranthene	5,600	11,000	ug/kg	5000 D
Benz(k)Fluoranthene	56,000	110,000	ug/kg	23000 D
Chrysene	56,000	110,000	ug/kg	23000 D
Dibenz(a,h)Anthracene	560	1,100	ug/kg	9000 DJ
Fluoranthene	560,000	1,000,000	ug/kg	12000 D
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	9000 D
Pyrene	560,000	1,000,000	ug/kg	9000 D
TAL Metals (SV60/10)				
Arsenic	16	16	mg/kg	5.3
Copper	270	10,000	mg/kg	31.8
Mercury (SV07/71)				
Mercury	2.8	5.7	mg/kg	0.310
TAL Cyanide (SV09/120)				
Cyanide	27	10,000	mg/kg	9.83

Analytes	Part 375 SEDs		Units	MW BCP-02	
	Commercial	Industrial		11/16/2020	
				Sample Date:	
				Sample Interval:	
			Formations:	0 - 1 ft	
				Shallow Fill	
TEL SVOCs (SV06/200)					
Benz(a)Anthracene	5,600	11,000	ug/kg	3300	D
Benz(a)Pyrene	1,000	1,100	ug/kg	3700	D
Benz(b)Fluoranthene	5,600	11,000	ug/kg	4100	D
Benz(k)Fluoranthene	56,000	110,000	ug/kg	11500	D
Chrysene	56,000	110,000	ug/kg	3600	D
Dibenz(a,h)Anthracene	560	1,100	ug/kg	730	DJ
Fluoranthene	560,000	1,000,000	ug/kg	5100	D
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	2900	D
Pyrene	560,000	1,000,000	ug/kg	6100	D
TAL Metals (SV60/10)					
Arsenic	16	16	mg/kg	0.9	J
Copper	270	10,000	mg/kg	14.8	J
Mercury (SV07/71)					
Mercury	2.8	5.7	mg/kg	0.037	
Total Cyanide (SV09/120)					
Cyanide	27	10,000	mg/kg	2.63	

Analytes	Part 375 SEDs		Units	MW BCP-04
	Commercial	Industrial	Sample Date: Sample Interval:	11/16/2020 0 - 1 ft
			Formations	Shallow Fill
	TEL SVOCs (SV06/200)			
Benz(a)Anthracene	5,600	11,000	ug/kg	19000 D
Benz(a)Pyrene	1,000	1,100	ug/kg	35000 D
Benz(b)Fluoranthene	5,600	11,000	ug/kg	38000 D
Benz(k)Fluoranthene	56,000	110,000	ug/kg	12000 D
Chrysene	56,000	110,000	ug/kg	22000 D
Dibenz(a,h)Anthracene	560	1,100	ug/kg	5600 D
Fluoranthene	560,000	1,000,000	ug/kg	29000 D
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	27000 D
Pyrene	560,000	1,000,000	ug/kg	29000 D
TAL Metals (SV60/10)				
Arsenic	16	16	mg/kg	10.4 J
Copper	270	10,000	mg/kg	39.5 J
Mercury (SV07/71)				
Mercury	2.8	5.7	mg/kg	0.202
Total Cyanide (SV09/120)				
Cyanide	27	10,000	mg/kg	1.19

Analytes	Part 375 SEDs		Units	TP BCP-03	
	Commercial	Industrial		Sample Date: 11/12/2020	Shallow Fill
	Sample Interval: 0 - 1 ft				
	Formations:				
TEL SVOCs (SV06/200)					
Benz(a)Anthracene	5,600	11,000	ug/kg	6500	D
Benz(a)Pyrene	1,000	1,100	ug/kg	10000	D
Benz(b)Fluoranthene	5,600	11,000	ug/kg	13000	D
Benz(k)Fluoranthene	56,000	110,000	ug/kg	4300	D
Chrysene	56,000	110,000	ug/kg	13000	D
Dibenz(a,h)Anthracene	560	1,100	ug/kg	2900	D
Fluoranthene	560,000	1,000,000	ug/kg	9000	D
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	9100	D
Pyrene	560,000	1,000,000	ug/kg	7800	D
TAL Metals (SV60/10)					
Arsenic	16	16	mg/kg	3.2	
Copper	270	10,000	mg/kg	16.7	
Mercury (SV07/71)					
Mercury	2.8	5.7	mg/kg	0.267	
Total Cyanide (SV09/120)					
Cyanide	27	10,000	mg/kg	3.35	

Analytes	Part 375 SEDs		Units	MW BCP-07
	Commercial	Industrial		
	Sample Date: 11/10/2020			
	Sample Interval: 0 - 1 ft			
Formations: Shallow Fill				
TEL SVOCs (SV06/200)				
Benz(a)Anthracene	5,600	11,000	ug/kg	360 J
Benz(a)Pyrene	1,000	1,100	ug/kg	430 U
Benz(b)Fluoranthene	5,600	11,000	ug/kg	130 J
Benz(k)Fluoranthene	56,000	110,000	ug/kg	430 U
Chrysene	56,000	110,000	ug/kg	190 J
Dibenz(a,h)Anthracene	560	1,100	ug/kg	430 U
Fluoranthene	560,000	1,000,000	ug/kg	1500 D
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	480 U
Pyrene	560,000	1,000,000	ug/kg	1100 J
TAL Metals (SV60/10)				
Arsenic	16	16	mg/kg	2.4 J
Copper	270	10,000	mg/kg	10.1
Mercury (SV07/71)				
Methyl Mercury	2.0	5.7	mg/kg	<0.019 U
TEL Metals (SV06/10)				
Cadmium	27	10,000	mg/kg	0.22 J

Analytes	PART 275 SCLs		Units	TP-BCP-01	TP-BCP-02
	Commercial	Industrial			
	Sample Date	Sample Interval			
	Formation	Formation			
TEL SVOCs (SW6270)					
Acephenanthrene	300,000	1,000,000	ug/kg	<90	U
Acenaphthylene	300,000	1,000,000	ug/kg	<30	U
Anthracene	300,000	1,000,000	ug/kg	<30	U
Benzo[a]anthracene	11,000	11,000	ug/kg	<10	U
Benzo[a]pyrene	1,000	1,000	ug/kg	<10	U
Benzo[b]fluoranthene	11,000	11,000	ug/kg	<10	U
Benzo[k]fluoranthene	300,000	1,000,000	ug/kg	<30	U
Benzo[e]pyrene	30,000	100,000	ug/kg	<10	U
Chrysene	160,000	1,000,000	ug/kg	<30	U
Dibenz[a,h]anthracene	160	1,000	ug/kg	<10	U
Dibenzofuran	300,000	1,000,000	ug/kg	<30	U
Fluorene	300,000	1,000,000	ug/kg	<30	U
Indeno[1,2,3-cd]pyrene	5,600	11,000	ug/kg	<10	U
Naphthalene	300,000	1,000,000	ug/kg	<10	U
Phenanthrene	300,000	1,000,000	ug/kg	<30	U
Pyrene	300,000	1,000,000	ug/kg	<10	U
TEL Metals (SW6270)					
Arsenic	16	16	mg/kg	2.5	J
Barium	400	10,000	mg/kg	127	J
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	<0.04	J
Total Cyanide (SW9128)					
Cyanide	27	10,000	mg/kg	<0.18	J

Analytes	PART 275 SCLs		Units	TP-BCP-03	TP-BCP-04
	Commercial	Industrial			
	Sample Date	Sample Interval			
	Formation	Formation			
TEL SVOCs (SW6270)					
Acephenanthrene	300,000	1,000,000	ug/kg	<30	U
Acenaphthylene	300,000	1,000,000	ug/kg	<30	U
Anthracene	300,000	1,000,000	ug/kg	<30	U
Benzo[a]anthracene	11,000	11,000	ug/kg	<10	U
Benzo[a]pyrene	1,000	1,000	ug/kg	<10	U
Benzo[b]fluoranthene	11,000	11,000	ug/kg	<10	U
Benzo[k]fluoranthene	300,000	1,000,000	ug/kg	<30	U
Benzo[e]pyrene	30,000	100,000	ug/kg	<10	U
Chrysene	160,000	1,000,000	ug/kg	<30	U
Dibenz[a,h]anthracene	160	1,000	ug/kg	<10	U
Dibenzofuran	300,000	1,000,000	ug/kg	<30	U
Fluorene	300,000	1,000,000	ug/kg	<30	U
Indeno[1,2,3-cd]pyrene	5,600	11,000	ug/kg	<10	U
Naphthalene	300,000	1,000,000	ug/kg	<30	U
Phenanthrene	300,000	1,000,000	ug/kg	<30	U
Pyrene	300,000	1,000,000	ug/kg	<30	U
TEL Metals (SW6270)					
Arsenic	16	16	mg/kg	2.5	J
Barium	400	10,000	mg/kg	127	J
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.046	J
Total Cyanide (SW9128)					
Cyanide	27	10,000	mg/kg	0.05	J

Analytes	PART 275 SCLs		Units	TP-BCP-05	TP-BCP-06	
	Commercial	Industrial		17/01/2020	17/01/2020	
	Sample Date	Sample Date		Sample Interval	Sample Interval	
	Formation	Formation		20 - 20.0 U	20 - 18.0 U	
	Formation	Formation		CV%	CV%	
TEL SVOCs (SW6270)						
Acephenanthrene	300,000	1,000,000	ug/kg	7700	<90	U
Acenaphthylene	300,000	1,000,000	ug/kg	3000	<30	U
Anthracene	300,000	1,000,000	ug/kg	1300	<30	U
Benzo[a]anthracene	11,000	11,000	ug/kg	1100	<10	U
Benzo[a]pyrene	1,000	1,000	ug/kg	1100	<10	U
Benzo[b]fluoranthene	11,000	11,000	ug/kg	1100	<10	U
Benzo[k]fluoranthene	300,000	1,000,000	ug/kg	4100	<30	U
Benzo[e]pyrene	30,000	100,000	ug/kg	2000	<10	U
Chrysene	160,000	1,000,000	ug/kg	1300	<30	U
Dibenz[a,h]anthracene	160	1,000	ug/kg	1100	<10	U
Dibenzofuran	300,000	1,000,000	ug/kg	4100	<30	U
Fluorene	300,000	1,000,000	ug/kg	2000	<30	U
Indeno[1,2,3-cd]pyrene	5,600	11,000	ug/kg	1300	<10	U
Naphthalene	300,000	1,000,000	ug/kg	2000	<30	U
Phenanthrene	300,000	1,000,000	ug/kg	3000	<30	U
Pyrene	300,000	1,000,000	ug/kg	3000	<30	U
TEL Metals (SW6270)						
Arsenic	16	16	mg/kg	16.5	5.9	
Barium	400	10,000	mg/kg	60.2	26.7	
Mercury (SW7471)						
Mercury	2.8	5.7	mg/kg	1.2	0.002	
Total Cyanide (SW9128)						
Cyanide	27	10,000	mg/kg	5.43	0.02	

Analytes	PART 275 SCLs		Units	MW-BCP-05	MW-BCP-06	MW-BCP-07	MW-BCP-08	MW-BCP-09	MW-BCP-10
	Commercial	Industrial							
	Sample Date	Sample Interval							
	Formation	Formation							
	City	City							
TEL SVOCs (SW6270)									
Acephenanthrene	300,000	1,000,000	ug/kg	18	U	<30	U	<30	U
Acenaphthylene	300,000	1,000,000	ug/kg	130	U	<30	U	<30	U
Anthracene	300,000	1,000,000	ug/kg	130	U	<30	U	<30	U
Benzo[a]anthracene	11,000	11,000	ug/kg	130	U	<30	U	<30	U
Benzo[a]pyrene	1,000	1,000	ug/kg	130	U	<30	U	<30	U
Benzo[b]fluoranthene	300,000	1,000,000	ug/kg	130	U	<30	U	<30	U
Benzo[k]fluoranthene	30,000	100,000	ug/kg	130	U	<30	U	<30	U
Chrysene	160,000	1,000,000	ug/kg	130	U	<30	U	<30	U
Dibenz[a,h]anthracene	160	1,000	ug/kg	130	U	<30	U	<30	U
Dibenzofuran	300,000	1,000,000	ug/kg	130	U	<30	U	<30	U
Fluorene	300,000	1,000,000	ug/kg	130	U	<30	U	<30	U
Indeno[1,2,3-cd]pyrene	5,600	11,000	ug/kg	130	U	<30	U	<30	U
Naphthalene	300,000	1,000,000	ug/kg	130	U	<30	U	<30	U
Phenanthrene	300,000	1,000,000	ug/kg	130	U	<30	U	<30	U
Pyrene	300,000	1,000,000	ug/kg	130	U	<30	U	<30	U
TEL Metals (SW6270)									
Arsenic	16	16	mg/kg	5.2	4	4.8	5.1	3.7	2.8
Barium	400	10,000	mg/kg	167	111	64.5	133	67.7	76.4
Mercury (SW7471)									
Mercury	2.8	5.7	mg/kg	0.278	<0.001	<0.004	U	<0.008	U
Total Cyanide (SW9128)									
Cyanide	27	10,000	mg/kg	11.1	0.46	2.1	1	<0.27	U

Analytes	Part 275 SCLs		Units	MW-BCP-10	MW-BCP-11	MW-BCP-12	MW-BCP-13	MW-BCP-14			
	Commercial	Industrial									
	Sample Date	Sample Interval									
	Formation	Formation									
	City	City									
TEL SVOCs (SW6270)											
Acephenanthrene	300,000	1,000,000	ug/kg	120	J	180	U	<30	U		
Acenaphthylene	300,000	1,000,000	ug/kg	120	J	180	U	<30	U		
Anthracene	300,000	1,000,000	ug/kg	120	J	180	U	<30	U		
Benzo[a]anthracene	11,000	11,000	ug/kg	120	J	180	U	<30	U		
Benzo[a]pyrene	1,000	1,000	ug/kg	120	J	180	U	<30	U		
Benzo[b]fluoranthene	11,000	11,000	ug/kg	120	J	180	U	<30	U		
Benzo[k]fluoranthene	300,000	1,000,000	ug/kg	430	J	1310	U	<30	U		
Benzo[e]pyrene	30,000	100,000	ug/kg	700	J	1310	U	<30	U		
Chrysene	160,000	1,000,000	ug/kg	1000	J	1310	U	<30	U		
Dibenz[a,h]anthracene	160	1,000	ug/kg	1000	J	1310	U	<30	U		
Dibenzofuran	300,000	1,000,000	ug/kg	1000	J	1310	U	<30	U		
Fluorene	300,000	1,000,000	ug/kg	1000	J	1310	U	<30	U		
Indeno[1,2,3-cd]pyrene	5,600	11,000	ug/kg	530	J	1310	U	<30	U		
Naphthalene	300,000	1,000,000	ug/kg	1000	J	1310	U	<30	U		
Phenanthrene	300,000	1,000,000	ug/kg	1000	J	1310	U	<30	U		
Pyrene	300,000	1,000,000	ug/kg	1000	J	1310	U	<30	U		
TEL Metals (SW6270)											
Arsenic	16	16	mg/kg	5.2	J	5.7	2.7	2.8	2.8		
Barium	400	10,000	mg/kg	167	108	162	76.4	76.4	76.4		
Mercury (SW7471)											
Mercury	2.8	5.7	mg/kg	0.111	<0.004	U	<0.008	U	<0.004	U	
Total Cyanide (SW9128)											
Cyanide	27	10,000	mg/kg	0.28	J	<0.19	U	<0.27	U	<0.17	U

Analytes	Part 275 SCLs		Units	MW-BCP-02		MW-BCP-03		MW-BCP-04	
	Commercial	Industrial		Sample Date	11/11/2020	11/11/2020	11/11/2020		
				Sample Interval	7 - 8	5 - 10	24 - 25		
				Formation	Day	Day	Day		
TEL SVOCs (SW6270)									
Acephenanthrene	300,000	1,000,000	ug/kg	<90	U	<90	U	<90	U
Acenaphthylene	300,000	1,000,000	ug/kg	<30	U	<30	U	<30	U
Anthracene	300,000	1,000,000	ug/kg	<30	U	<30	U	<30	U
Benzo[a]anthracene	11,000	11,000	ug/kg	<10	U	<10	U	<10	U
Benzo[a]pyrene	1,000	1,000	ug/kg	<10	U	<10	U	<10	U
Benzo[b]fluoranthene	11,000	11,000	ug/kg	<10	U	<10	U	<10	U
Benzo[k]fluoranthene	300,000	1,000,000	ug/kg	<30	U	<30	U	<30	U
Benzo[e]pyrene	30,000	100,000	ug/kg	<10	U	<10	U	<10	U
Chrysene	160,000	1,000,000	ug/kg	<30	U	<30	U	<30	U
Dibenz[a,h]anthracene	160	1,000	ug/kg	<10	U	<10	U	<10	U
Dibenzofuran	300,000	1,000,000	ug/kg	<30	U	<30	U	<30	U
Fluorene	300,000	1,000,000	ug/kg	<30	U	<30	U	<30	U
Indeno[1,2,3-cd]pyrene	5,600	11,000	ug/kg	<10	U	<10	U	<10	U
Naphthalene	300,000	1,000,000	ug/kg	<30	U	<30	U	<30	U
Phenanthrene	300,000	1,000,000	ug/kg	<30	U	<30	U	<30	U
Pyrene	300,000	1,000,000	ug/kg	<30	U	<30	U	<30	U
TEL Metals (SW6270)									
Arsenic	16	16	mg/kg	3.5	J	4.5		0.4	
Barium	400	10,000	mg/kg	111	J	112		0.1	
TEL Metals (SW7671)									
Mercury	2.6	5.7	mg/kg	0.618	J	0.012		0.075	
TEL Metals (SW846)									
Cadmium	2.0	10,000	mg/kg	<0.27	U	<0.17	U	<0.27	U

Analytes	Class CA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-04A	MW-BCP-04B	MW-BCP-04C	MW-BCP-04D	10% OF BCPL-04					
	Sample Date												
	Screen Interval (ft bgs)	Screened Formation							1-1-2012	1-1-2013	3-16-2013	3-16-2013	
	Screened Formation												
TCL VOCs (SW6250C)													
Benzene	1	ug/l	<0.20	U	NS	<0.20	U	NS					
Ethylbenzene	5	ug/l	<0.20	U	NS	<0.20	U	NS					
Styrene	5	ug/l	<0.20	U	NS	<0.20	U	NS					
Toluene	5	ug/l	<0.20	U	NS	<0.20	U	NS					
m-Xylene	5	ug/l	<0.20	U	NS	<0.20	U	NS					
O-Xylene (1,3-Dimethylbenzene)	5	ug/l	<0.20	U	NS	<0.20	U	NS					
1,4-Dioxane (SW6270D/BNASIM)													
1,4-Dioxane (P-Dioxane)	0.35	ug/l	NS	NS	NS	NS	NS	NS					
TCL SVOCs (SW8270D)													
2,4-Dimethylphenol	50	ug/l	<1.5	U	NS	<1.5	U	NS					
Benzo(a)Anthracene	0.002	ug/l	<1.5	U	NS	<1.5	U	NS					
Benzo(a)Fluoranthene	0.002	ug/l	<1.5	U	NS	<1.5	U	NS					
Benzo(b)Fluoranthene	0.002	ug/l	<1.5	U	NS	<1.5	U	NS					
Benzo(k)Fluoranthene	0.002	ug/l	<1.5	U	NS	<1.5	U	NS					
Chrysene	0.002	ug/l	<1.5	U	NS	<1.5	U	NS					
Fluoranthene	5	ug/l	<1.5	U	NS	<1.5	U	NS					
Phenanthrene	50	ug/l	<1.5	U	NS	<1.5	U	NS					
Indeno(1,2,3-cd)Pyrene	0.002	ug/l	<1.5	U	NS	<1.5	U	NS					
Naphthalene	10	ug/l	<1.5	U	NS	<1.5	U	NS					
Phenol	1	ug/l	<0.50	U	NS	<0.50	U	NS					
TCL Metals (SW8270D)													
Arsenic	25	ug/l	<1.5	U	<1.5	U	<1.5	U					
Barium	1,000	ug/l	<1.5	U	<1.5	U	<1.5	U					
Beryllium	5	ug/l	<0.15	U	<0.15	U	<0.15	U					
Cadmium	5	ug/l	<0.15	U	<0.15	U	<0.15	U					
Chromium, Total	200	ug/l	<1.5	U	<1.5	U	<1.5	U					
Copper	200	ug/l	<1.5	U	<1.5	U	<1.5	U					
Iron	300	ug/l	<1.5	U	<1.5	U	<1.5	U					
Lead	25	ug/l	<1.5	U	<1.5	U	<1.5	U					
Magnesium	35,000	ug/l	<1.5	U	<1.5	U	<1.5	U					
Manganese	300	ug/l	<1.5	U	<1.5	U	<1.5	U					
Nickel	300	ug/l	<1.5	U	<1.5	U	<1.5	U					
Selenium	20,000	ug/l	<1.5	U	<1.5	U	<1.5	U					
Sodium	2,000	ug/l	<1.5	U	<1.5	U	<1.5	U					
Zinc	2,000	ug/l	<1.5	U	<1.5	U	<1.5	U					
Cyanide (SW9120/KLADA-01)													
Cyanide	0.20	mg/l	0.45	NS	<0.40	U	NS	NS					
Pesticides (SW818)													
Beta BHC (Beta Heptachlorocyclohexane)	0.04	ug/l	NS	NS	NS	NS	NS	NS					
Delta BHC (Delta Heptachlorocyclohexane)	0.04	ug/l	NS	NS	NS	NS	NS	NS					
Gamma BHC (Lindane)	0.05	ug/l	NS	NS	NS	NS	NS	NS					
Chlordane (Technical)	0.05	ug/l	NS	NS	NS	NS	NS	NS					
PFAS (E537)													
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/l	NS	NS	NS	NS	NS	NS					
Perfluorooctanoic acid (PFOA)	6.7	ng/l	NS	NS	NS	NS	NS	NS					
1H,1H,2H,2H-Perfluorooctane sulfonic acid	100	ng/l	NS	NS	NS	NS	NS	NS					
Ammonia (E501)													
Nitrogen, Ammonia (As N)	2	mg/l	NS	NS	NS	NS	NS	9,999					

Analytes	Class CA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-04A	MW-BCP-04B	MW-BCP-04C	MW-BCP-04D
	Sample Date						
	Screen Interval (ft bgs)	Screened Formation					
	FW	FW					
TCL VOCs (SW6250C)							
Benzene	1	ug/L	3.2	NS	NS	NS	NS
Ethylbenzene	5	ug/L	<0.20	U	<0.20	U	NS
Styrene	5	ug/L	<0.20	U	<0.20	U	NS
Toluene	5	ug/L	0.58	J	0.25	J	NS
m,p-Xylene	5	ug/L	0.25	J	0.15	J	NS
O-Xylene (1,2-Dimethylbenzene)	5	ug/L	0.37	J	1.7	J	NS
1,4-Dioxane (SW6270D/BNASIM)							
1,4-Dioxane (p-dioxane)	0.35	ug/L	NS	NS	NS	NS	NS
TCL SVOCs (SW8270D)							
2,4-Dimethylphenol	50	ug/L	<1.5	U	<1.5	U	NS
Benz(a)Anthracene	0.002	ug/L	<1.5	U	3.2	J	NS
Benz(a)Fluoranthene	0.002	ug/L	<1.5	U	2.2	J	NS
Benz(b)Fluoranthene	0.002	ug/L	<1.5	U	4.4	U	NS
Benzo(k)Fluoranthene	0.002	ug/L	<1.5	U	2.8	J	NS
Chrysene	50	ug/L	<1.5	U	5.7	J	NS
Fluoranthene	50	ug/L	1.5	J	1.5	J	NS
Phenanthrene	0.002	ug/L	<1.5	U	3.2	J	NS
Indeno(1,2,3-cd)Pyrene	10	ug/L	<1.5	U	4.7	J	NS
Naphthalene	1	ug/L	<0.50	U	4.0	U	NS
TCL Metals (SW8270D)							
Arsenic	25	ug/L	NS	NS	NS	NS	NS
Barium	1,000	ug/L	NS	NS	NS	NS	NS
Beryllium	5	ug/L	NS	NS	NS	NS	NS
Cadmium	5	ug/L	NS	NS	NS	NS	NS
Chromium, Total	200	ug/L	NS	NS	NS	NS	NS
Copper	200	ug/L	NS	NS	NS	NS	NS
Iron	300	ug/L	NS	NS	NS	NS	NS
Lead	25	ug/L	NS	NS	NS	NS	NS
Magnesium	35,000	ug/L	NS	NS	NS	NS	NS
Manganese	300	ug/L	NS	NS	NS	NS	NS
Nickel	300	ug/L	NS	NS	NS	NS	NS
Selenium	10	ug/L	NS	NS	NS	NS	NS
Sodium	2,000	ug/L	NS	NS	NS	NS	NS
Zinc	2,000	ug/L	NS	NS	NS	NS	NS
Cyanide (SW9120/KLADA-01)							
Cyanide	0.20	mg/L	0.45	NS	0.45	NS	NS
Pesticides (SW818)							
Beta BHC (Beta heptachlorocyclohexane)	0.04	ug/L	NS	NS	NS	NS	NS
Delta BHC (Delta heptachlorocyclohexane)	0.04	ug/L	NS	NS	NS	NS	NS
Gamma BHC (Lindane)	0.05	ug/L	NS	NS	NS	NS	NS
Chlordane (Technical)	0.05	ug/L	NS	NS	NS	NS	NS
PFAS (E537)							
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NS	NS	NS	NS	NS
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NS	NS	NS	NS	NS
1H,1H,2H,2H-Perfluorooctane sulfonic acid	100	ng/L	NS	NS	NS	NS	NS
Ammonia (E501)							
Nitrogen, Ammonia (As N)	2	mg/L	5.61	NS	7.51	NS	2.38

Analytes	Class CA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-04A	MW-BCP-04B	MW-BCP-04C	MW-BCP-04D					
	Sample Date											
	Screen Interval (ft bgs)	Screened Formation						1/1/2014	1/14/2014	4/22/2014	8/7/2014	
	Screened Interval (ft bgs)	Screened Formation						1/1	1/1	1/1	1/1	
TCL VOCs (SW6250C)												
Benzene	1	ug/l	1000	J	NS	350	NS					
Ethylbenzene	5	ug/l	140	J	NS	14	NS					
Styrene	5	ug/l	<10	U	NS	<10	U					
Toluene	5	ug/l	140	J	NS	14	NS					
m,p-Xylene	5	ug/l	200	J	NS	130	NS					
O-Xylene (1,2-Dimethylbenzene)	5	ug/l	300	J	NS	70	NS					
1,4-Dioxane (SW6270D/BNASIM)												
1,4-Dioxane (P-Dioxane)	0.35	ug/l	3.2	NS	NS	2.1	NS					
TCL SVOCs (SW8270D)												
2,4-Dimethylphenol	50	ug/l	3.7	J	NS	71	J					
Benz(a)Anthracene	0.002	ug/l	<1.2	U	NS	2.7	J					
Benz(a)Fluoranthene	0.002	ug/l	<1.2	U	NS	0.2	NS					
Benz(b)Fluoranthene	0.002	ug/l	<1.2	U	NS	0.1	NS					
Benzo(k)Fluoranthene	0.002	ug/l	<1.2	U	NS	0.1	NS					
Chrysene	0.002	ug/l	<1.2	U	NS	2.4	J					
Fluoranthene	50	ug/l	<1.2	U	NS	0.7	NS					
Phenanthrene	50	ug/l	<1.2	U	NS	2.2	J					
Indeno(1,2,3-cd)Pyrene	0.002	ug/l	<1.2	U	NS	0.2	NS					
Naphthalene	10	ug/l	<1.2	U	NS	0.8	NS					
Phenol	1	ug/l	8.8	J	NS	4.2	J					
TCL Metals (SW8270D)												
Arsenic	25	ug/l	32.6	NS	NS	NS	NS					
Barium	1,000	ug/l	14.8	NS	NS	NS	NS					
Beryllium	5	ug/l	<0.15	U	NS	0.3	J					
Cadmium	5	ug/l	<0.15	U	NS	NS	NS					
Chromium, Total	200	ug/l	14.1	J	NS	20.1	NS					
Copper	200	ug/l	14.1	J	NS	0.7	J					
Iron	300	ug/l	14.1	J	NS	407.0	NS					
Lead	25	ug/l	14.1	J	NS	4.8	J					
Magnesium	35,000	ug/l	14.1	J	NS	10.0	NS					
Manganese	300	ug/l	14.1	J	NS	NS	NS					
Nickel	300	ug/l	14.1	J	NS	12.7	J					
Selenium	10	ug/l	<1.4	U	NS	10.4	U					
Sodium	20,000	ug/l	14.1	J	NS	300,000	NS					
Sulfate (as Sulfate)	2,000	ug/l	14.1	J	NS	10.8	J					
Cyanide (SW9120/KLADA-01)												
Cyanide	0.20	mg/l	35.1	NS	NS	840	NS					
Pesticides (SW818)												
Beta BHC (Beta Heptachlorocyclohexane)	0.04	ug/l	<0.02	J	NS	<0.02	U					
Delta BHC (Delta Heptachlorocyclohexane)	0.04	ug/l	<0.02	J	NS	<0.02	U					
Gamma BHC (Lindane)	0.05	ug/l	<0.02	J	NS	<0.02	U					
Chlordane (Technical)	0.05	ug/l	<0.02	J	NS	<0.02	U					
PFAS (E537)												
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/l	15	J	NS	17	J					
Perfluorooctanoic acid (PFOA)	6.7	ng/l	14.1	J	NS	18	J					
1H,1H,2H,2H-Perfluorooctane sulfonic acid	100	ng/l	<0.5	J	NS	0.49	J					
Ammonia (E501)												
Nitrogen, Ammonia (As N)	2	mg/l	249	NS	NS	232	NS					



Analytes	Class CA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-10A
	Sample Date			
	Screen Interval (ft bgs)	Screened Formation		
	1/14/2021	3.0 - 5.0		
TCL VOCs (SW8250C)				
Benzene	1	ug/l	2000	
Ethylbenzene	5	ug/l	75	J
Styrene	5	ug/l	350	
Toluene	5	ug/l	2100	
m,p-Xylene	5	ug/l	1100	
O-Xylene (1,2-Dimethylbenzene)	5	ug/l	380	
1,4-Dioxane (SW8270D/BNASIM)				
1,4-Dioxane (P-Dioxane)	0.35	ug/l	0.39	
TCL SVOCs (SW8270D)				
2,4-Dimethylphenol	50	ug/l	2500	J
Benzo(a)fluoranthene	0.002	ug/l	<7.9	U
Benzo(b)fluoranthene	0.002	ug/l	<5.6	U
Benzo(k)fluoranthene	0.002	ug/l	<6.1	U
Biphenyl (Dibiphenyl)	5	ug/l	28	J
Crysene	0.002	ug/l	<5.9	U
Fluoranthene	50	ug/l	<7.3	U
Fluorene	50	ug/l	55	
Indeno(1,2,3-cd)pyrene	0.002	ug/l	<8.8	U
Naphthalene	10	ug/l	8300	D
Phenol	1	ug/l	2300	D
TAL Metals (SW5010)				
Arsenic	25	ug/l	22.1	
Barium	1,000	ug/l	31	
Beryllium	3	ug/l	<0.13	U
Cadmium	5	ug/l	<0.35	U
Chromium, Total	50	ug/l	0.9	J
Copper	200	ug/l	<3.9	U
Iron	300	ug/l	819	
Lead	25	ug/l	<2.1	U
Magnesium	55,000	ug/l	509	J
Manganese	300	ug/l	10.5	
Nickel	100	ug/l	<2.6	U
Selenium	10	ug/l	<5.4	U
Sodium	20,000	ug/l	115,000	
Zinc	2,000	ug/l	<3.4	U
Cyanide (SW5013B/KELADA-01)				
Cyanide	0.20	mg/l	1.48	
Pesticides (80818)				
Beta-BHC (Beta Hechadichlorocyclohexene)	0.04	ug/l	0.1	J
Delta-BHC (Delta Hechadichlorocyclohexene)	0.04	ug/l	<0.029	U
Cyfluthrin (Cyfluthrin)	0.05	ug/l	<0.020	U
Deltamethrin (Deltamethrin)	0.05	ug/l	<0.020	U
PFAS (E537)				
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/l	6.2	
Perfluorooctanoic acid (PFOA)	6.7	ng/l	30	
1,1,1,4,2,4,2,4-Perfluorooctane sulfonic acid	100	ng/l	<55	U
Ammonia (E50-1)				
Nitrogen, Ammonia (AsN)	2	mg/l	NS	

Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-01B		MW-BCP-01D	
				Sample Date		Sample Date	
	Screen Interval (ft bgs):			1/12/2021		9/23/2021	
	Screened Formation:			Upper Clay		Upper Clay	
TAL Metals (SW6010)							
Arsenic	25	ug/l	<5.5	U	<5.5	U	
Barium	1,000	ug/l	66.4	U	64	U	
Beryllium	3	ug/l	<0.13	U	<0.13	U	
Chromium, Total	50	ug/l	3.8	J	<4.4	U	
Copper	200	ug/l	<4.8	U	<4.8	U	
Iron	300	ug/l	112	U	76.1	J	
Lead	25	ug/l	<1.1	U	<1.1	U	
Magnesium	35,000	ug/l	14,000	U	17,900	U	
Manganese	300	ug/l	79	U	85.2	U	
Nickel	100	ug/l	<2.6	U	<2.6	U	
Selenium	10	ug/l	<4.4	U	<4.4	U	
Sodium	20,000	ug/l	18,500	U	87,000	U	
Zinc	2,000	ug/l	<9.4	U	<9.4	J	
Cyanide (SW912B/RLADA-01)							
Cyanide	0.20	mg/l	<0.0040	U	<0.040	U	

Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MWBCP05C		MWBCP05C	
	Sample Date		1/15/2021		9/23/2021		
	Screen Interval (ft bgs):		29 - 39		29 - 39		
Screened Formation:		Lower Clay		Lower Clay			
TAL Metals (SW6010)							
Arsenic	25	ug/l	<5.5	U	12.4		
Barium	1,000	ug/l	151		180		
Beryllium	3	ug/l	0.3	J	0.7	J	
Chromium, Total	50	ug/l	20.9		34.3		
Copper	200	ug/l	6.6	J	23.6		
Iron	300	ug/l	6300		1,500		
Lead	25	ug/l	2.7	J	7.5	J	
Magnesium	35,000	ug/l	15,000		18,600		
Manganese	300	ug/l	133		271		
Nickel	100	ug/l	<2.6	U	7.8	J	
Selenium	10	ug/l	<4.4	U	<4.4	U	
Sodium	20,000	ug/l	79,900		8,200		
Zinc	2,000	ug/l	18	J	38.6		
Cyanide (SW912B/RLADA-01)							
Cyanide	0.20	mg/l	<0.0040	U	1.68		

Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MWBC-09B		MWBC-09D	
				Sample Date		Sample Date	
	Screen Interval (ft bgs)			1/12/2021		9/23/2021	
	Screened Formation:			Upper Clay		Upper Clay	
TAL Metals (SW610)							
Arsenic	25	ug/l	<5.5	U	5.5	J	
Barium	1,000	ug/l	87.6	U	93.9	U	
Beryllium	3	ug/l	<0.13	U	<0.13	U	
Chromium, Total	50	ug/l	9.8	J	4.8	J	
Copper	200	ug/l	<4.8	U	<4.8	U	
Iron	300	ug/l	<61	U	1,600	U	
Lead	25	ug/l	<1.1	U	<1.1	U	
Magnesium	35,000	ug/l	87,000	U	18,000	U	
Manganese	300	ug/l	60	U	82.1	U	
Nickel	100	ug/l	<2.6	U	<2.6	U	
Selenium	10	ug/l	<4.4	U	<4.4	U	
Sodium	20,000	ug/l	6,600	U	8,900	U	
Zinc	2,000	ug/l	<9.4	U	6.7	J	
Cyanide (SW912B/RLADA-01)							
Cyanide	0.20	mg/l	<0.0040	U	<0.040	U	

Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-10B		MW-BCP-10C	
				Sample Date		Sample Date	
	Screen Interval (ft bgs):			1/15/2021		9/24/2021	
	Screened Formation:			Lower Clay		Lower Clay	
TAL Metals (SW6010)							
Arsenic	25	ug/l	<5.5	U	<5.5	U	
Barium	1,000	ug/l	87.2	U	65.6	U	
Beryllium	3	ug/l	<0.13	U	<0.13	U	
Chromium, Total	50	ug/l	1.8	J	<4.4	U	
Copper	200	ug/l	<4.8	U	<4.8	U	
Iron	300	ug/l	397	U	351	U	
Lead	25	ug/l	<1.1	U	<1.1	U	
Magnesium	35,000	ug/l	15,000	U	35,000	U	
Manganese	300	ug/l	73.4	U	51	U	
Nickel	100	ug/l	<2.6	U	<2.6	U	
Selenium	10	ug/l	<4.4	U	<4.4	U	
Sodium	20,000	ug/l	7,500	U	71,800	U	
Zinc	2,000	ug/l	<9.4	U	4	J	
Cyanide (SW912B/RLADA-01)							
Cyanide	0.20	mg/l	<0.0040	U	<0.040	U	

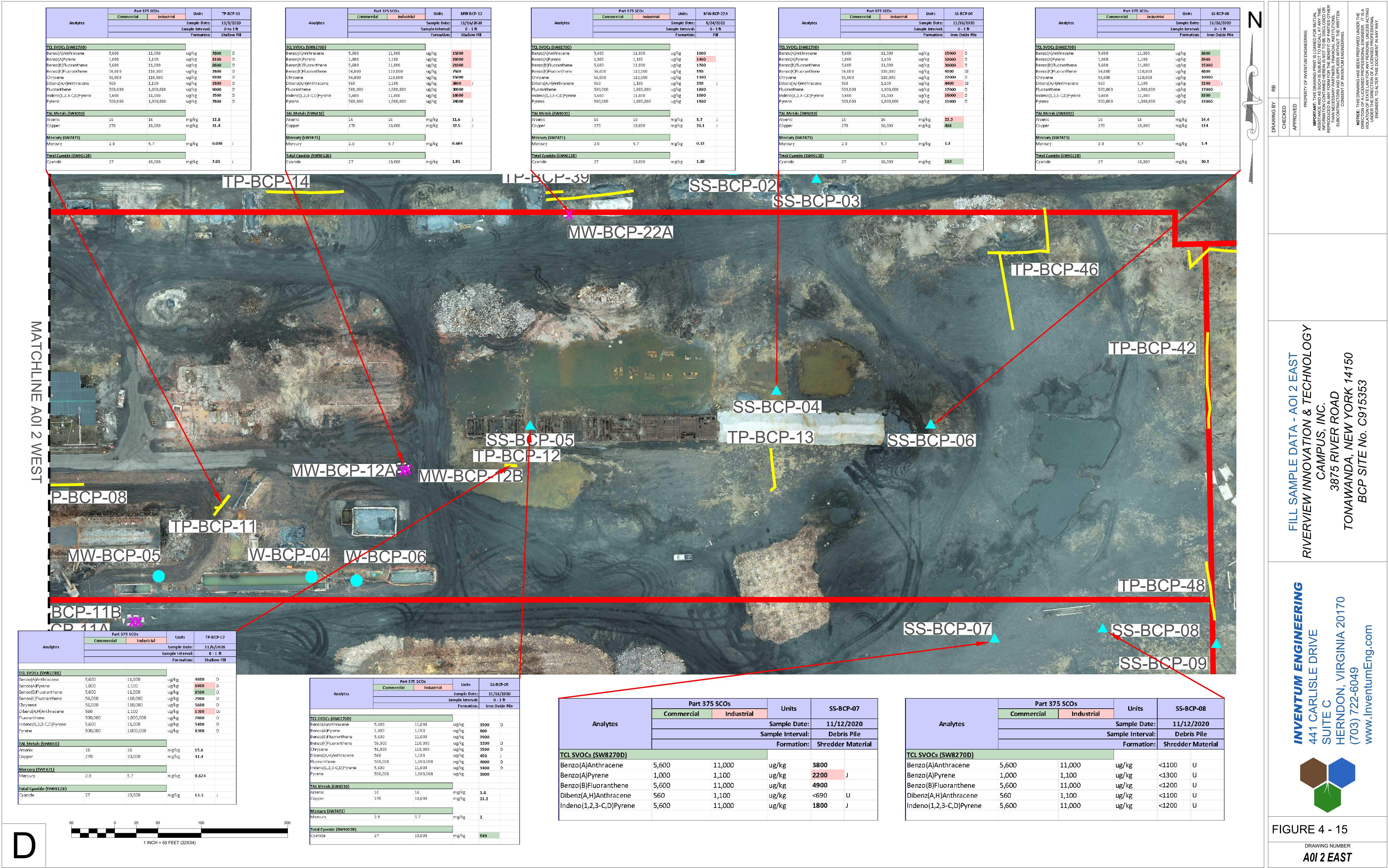
Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-04B		MW-BCP-04D	
				Sample Date		Sample Date	
	Screen Interval (ft bgs):		15 - 25	9/21/2023		15 - 25	
	Screened Formation:			Upper Clay		Upper Clay	
TAL Metals (SW6010)							
Arsenic	25	ug/l	NS		NS		
Barium	1,000	ug/l	NS		NS		
Beryllium	3	ug/l	NS		NS		
Chromium, Total	50	ug/l	NS		NS		
Copper	200	ug/l	NS		NS		
Iron	300	ug/l	NS		NS		
Lead	25	ug/l	NS		NS		
Magnesium	35,000	ug/l	NS		NS		
Manganese	300	ug/l	NS		NS		
Nickel	100	ug/l	NS		NS		
Selenium	10	ug/l	NS		NS		
Sodium	20,000	ug/l	NS		NS		
Zinc	2,000	ug/l	NS		NS		
Cyanide (SW912B/RELADA-01)							
Cyanide		0.20	mg/l	0.0133		<0.040	U

Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-07C		MW-BCP-07D	
				Sample Date		Sample Date	
	Screen Interval (ft bgs):			1/12/2021		9/23/2021	
	Screened Formation:			Lower Clay		Lower Clay	
TAL Metals (SW6010)							
Arsenic	25	ug/l	5.8	J	7.8	J	
Barium	1,000	ug/l	269	U	127	J	
Beryllium	3	ug/l	1.5	J	0.4	J	
Chromium, Total	50	ug/l	48.8	U	12.2	U	
Copper	200	ug/l	40.3	U	9.2	U	
Iron	300	ug/l	9900	U	31000	U	
Lead	25	ug/l	14.9	J	6.1	J	
Magnesium	35,000	ug/l	8900	U	51900	U	
Manganese	300	ug/l	799	U	195	U	
Nickel	100	ug/l	<2.6	U	5	J	
Selenium	10	ug/l	<4.4	U	<4.4	U	
Sodium	20,000	ug/l	108000	U	81800	U	
Zinc	2,000	ug/l	107	U	24.4	U	
Cyanide (SW912B/RLADA-01)							
Cyanide	0.20	mg/l	<0.0040	U	<0.09	U	

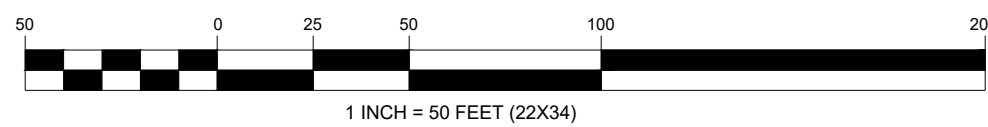
Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-08B		MW-BCP-08D	
				Sample Date		Sample Date	
	Screen Interval (ft bgs):		1/12/2021		9/24/2021		
	Screened Formation:			Upper Clay		Upper Clay	
TAL Metals (SW6010)							
Arsenic	25	ug/l	<5.5	U	18	U	
Barium	1,000	ug/l	85.1	U	86	U	
Beryllium	3	ug/l	<0.13	U	2.7	J	
Chromium, Total	50	ug/l	2.6	J	86.7	U	
Copper	200	ug/l	<4.8	U	62.4	U	
Iron	300	ug/l	157	U	94,000	U	
Lead	25	ug/l	<1.1	U	33.1	J	
Magnesium	35,000	ug/l	86,500	U	194,000	U	
Manganese	300	ug/l	117	U	1,810	U	
Nickel	100	ug/l	<2.6	U	56.9	U	
Selenium	10	ug/l	<4.4	U	<4.4	U	
Sodium	20,000	ug/l	120,000	U	77,100	U	
Zinc	2,000	ug/l	<9.4	U	199	U	
Cyanide (SW912B/RLADA-01)							
Cyanide	0.20	mg/l	0.0104		<0.20	U	

Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-11B		MW-BCP-11D	
				Sample Date		Sample Date	
	Screen Interval (ft bgs):			1/15/2021		9/23/2021	
	Screened Formation:			Upper Clay		Upper Clay	
TAL Metals (SW6010)							
Arsenic	25	ug/l	<5.5	U	82.3		
Barium	1,000	ug/l	226	U	2040		
Beryllium	3	ug/l	<0.13	U	13.2		
Chromium, Total	50	ug/l	0.7	J	462		
Copper	200	ug/l	<4.8	U	390		
Iron	300	ug/l	910	U	144,000		
Lead	25	ug/l	<1.1	U	227		
Magnesium	35,000	ug/l	238,000	U	461,000		
Manganese	300	ug/l	750	U	6480		
Nickel	100	ug/l	<2.6	U	362		
Selenium	10	ug/l	<4.4	U	<6.4	U	
Sodium	20,000	ug/l	102,000	U	87,200		
Zinc	2,000	ug/l	<9.4	U	1110		
Cyanide (SW912B/RLADA-01)							
Cyanide	0.20	mg/l	0.0258		<0.09	U	





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MATCHLINE AOI 2 WEST

Analytes	Part 375 SCDs		Units	TP-BCP-11
	Commercial	Industrial		
	Sample Date: 11/6/2020			
	Sample Interval: 41' - 43.5 in			
		Formations	Clay	
TEL SVOCs (SW8270)				
Acephenanthrene	500,000	1,000,000	ug/kg	<96 U
Acephenanthylene	500,000	1,000,000	ug/kg	<120 U
Anthracene	500,000	1,000,000	ug/kg	<120 U
Benzo(A)Anthracene	5,000	11,000	ug/kg	<120 U
Benzo(A)Pyrene	1,000	1,100	ug/kg	<150 U
Benzo(B)Fluoranthene	5,000	11,000	ug/kg	<150 U
Benzo(G,H)Perylene	500,000	1,000,000	ug/kg	<120 U
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	<160 U
Chrysene	56,000	110,000	ug/kg	<160 U
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<130 U
Dibenzofuran	350,000	1,000,000	ug/kg	<94 U
Fluoranthene	500,000	1,000,000	ug/kg	<150 U
Fluorene	500,000	1,000,000	ug/kg	<99 U
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	<150 U
Naphthalene	500,000	1,000,000	ug/kg	<110 U
Phenanthrene	500,000	1,000,000	ug/kg	<130 U
Pyrene	500,000	1,000,000	ug/kg	<170 U
TEL Metals (SW810)				
Arsenic	16	16	mg/kg	<10.1 U
Barium	400	10,000	mg/kg	121
Mercury (SW7471)				
Mercury	2.8	5.7	mg/kg	0.034 J
Total Cyanide (SW90128)				
Cyanide	27	10,000	mg/kg	<0.20 U

Analytes	Part 375 SCDs		Units	TP-BCP-12
	Commercial	Industrial		
	Sample Date: 11/6/2020			
	Sample Interval: 44' - 43.5 in			
	Formation: Clay			
TEL SVOCs (SW8270)				
Acephenanthrene	500,000	1,000,000	ug/kg	<97 U
Acephenanthylene	500,000	1,000,000	ug/kg	<120 U
Anthracene	500,000	1,000,000	ug/kg	<120 U
Benzo(A)Anthracene	5,600	11,000	ug/kg	<150 U
Benzo(A)Pyrene	1,000	1,100	ug/kg	<140 U
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	<150 U
Benzo(G,H)Perylene	500,000	1,000,000	ug/kg	<120 U
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	<160 U
Chrysene	56,000	110,000	ug/kg	<160 U
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<130 U
Dibenzofuran	350,000	1,000,000	ug/kg	<94 U
Fluoranthene	500,000	1,000,000	ug/kg	<160 U
Fluorene	5,600	11,000	ug/kg	<150 U
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	<150 U
Naphthalene	500,000	1,000,000	ug/kg	<120 U
Phenanthrene	500,000	1,000,000	ug/kg	<130 U
Pyrene	500,000	1,000,000	ug/kg	<180 U
TEL Metals (SW810)				
Arsenic	16	16	mg/kg	3.6
Barium	400	10,000	mg/kg	65.5
Mercury (SW7471)				
Mercury	2.8	5.7	mg/kg	0.032 J
Total Cyanide (SW90128)				
Cyanide	27	10,000	mg/kg	2.38 J

Analytes	Part 1375 SCDs		Units	MW-BCP-22A
	Commercial	Industrial		
	Sample Date: 6/23/2024			
	Sample Interval: 5' - 6 ft			
Formation:		Clay		
TEL SVOCs (SW82700)				
Acephenanthrene	500,000	1,000,000	ug/kg	<79 U
Acephenanthylene	500,000	1,000,000	ug/kg	<95 U
Anthracene	500,000	1,000,000	ug/kg	<79 U
Benzo(A)Anthracene	5,600	11,000	ug/kg	<62 U
Benzo(A)Pyrene	1,000	1,100	ug/kg	<120 U
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	<79 U
Benzo(G,H)Perylene	500,000	1,000,000	ug/kg	<96 U
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	<68 U
Chrysene	560	1,100	ug/kg	<91 U
Dibenz(A,H)Anthracene	350,000	1,000,000	ug/kg	<76 U
Fluoranthene	500,000	1,000,000	ug/kg	<110 U
Fluorene	500,000	1,000,000	ug/kg	<79 U
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	<140 U
Naphthalene	500,000	1,000,000	ug/kg	<79 U
Phenanthrene	500,000	1,000,000	ug/kg	69 J
Pyrene	500,000	1,000,000	ug/kg	<79 U
TEL Metals (SW810)				
Arsenic	16	16	mg/kg	8.8 J
Barium	400	10,000	mg/kg	186 J
Mercury (SW7471)				
Mercury	2.8	5.7	mg/kg	0.028 J
Total Cyanide (SW90128)				
Cyanide	27	10,000	mg/kg	<0.17 U

Analytes	Part 375 SCDs		Units	TP-BCP-46	TP-BCP-46	TP-BCP-46	
	Commercial	Industrial		Sample Bales	11/5/2020	11/5/2020	11/5/2020
	Sample Interval			24' - 48 in	46' - 46.5 in	50' - 50.5 in	
	Formation:			Clay	Clay	Clay	
	TEL SVOCs (SW8270)						
	Acephenanthrene	500,000		1,000,000	ug/kg	<110 U	NS
Acephenanthylene	500,000	1,000,000	ug/kg	<130 U	NS	<110 U	
Anthracene	500,000	1,000,000	ug/kg	<130 U	NS	<120 U	
Benzo(A)Anthracene	5,600	11,000	ug/kg	<140 U	NS	<130 U	
Benzo(A)Pyrene	1,000	1,100	ug/kg	<170 U	NS	<160 U	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	<160 U	NS	<140 U	
Benzo(G,H)Perylene	500,000	1,000,000	ug/kg	<130 U	NS	<110 U	
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	<170 U	NS	<160 U	
Chrysene	560	1,100	ug/kg	<140 U	NS	<160 U	
Dibenz(A,H)Anthracene	350,000	1,000,000	ug/kg	<91 U	NS	<82 U	
Dibenzofuran	500,000	1,000,000	ug/kg	<140 U	NS	<130 U	
Fluoranthene	500,000	1,000,000	ug/kg	210 J	NS	<160 U	
Fluorene	5,600	11,000	ug/kg	<160 U	NS	<140 U	
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	<160 U	NS	<140 U	
Naphthalene	500,000	1,000,000	ug/kg	210 J	NS	<110 U	
Phenanthrene	500,000	1,000,000	ug/kg	170 J	NS	<130 U	
Pyrene	500,000	1,000,000	ug/kg	<190 U	NS	<170 U	
TEL Metals (SW810)							
Arsenic	16	16	mg/kg	11.3	5.7	2.9	
Barium	400	10,000	mg/kg	39.3	619	223	
Mercury (SW7471)							
Mercury	2.8	5.7	mg/kg	0.337	3.5	0.032 J	
Total Cyanide (SW90128)							
Cyanide	27	10,000	mg/kg	13.3	1140	1.59	

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RIVERVIEW INNOVATION & TECHNOLOGY CAMPUS, INC.
3875 RIVER ROAD
TONAWANDA, NEW YORK 14150
BCP SITE No. C915353

INVENTUM ENGINEERING
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170
(703) 722-6049
www.InventumEng.com

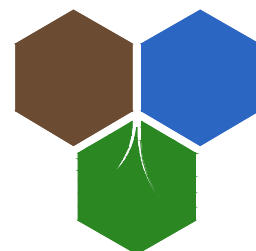


FIGURE 4 - 16

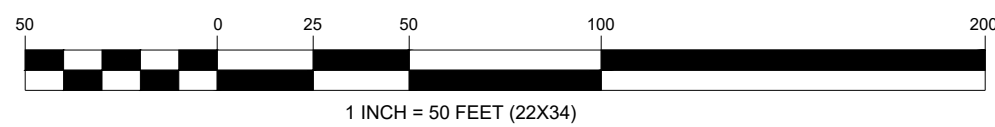
DRAWING NUMBER
AOI 2 EAST

Analytes	Part 375 SCDs		Units	MW-BCP-12	MW-BCP-12	MW-BCP-12				
	Commercial	Industrial								
	Sample Date: 11/16/2020									
	Sample Interval: 5' - 6 ft									
	Formation: Clay									
TEL SVOCs (SW82700)										
Acenaphthene	500,000	1,000,000	ug/kg	<84 U	<88 U	<110 U				
Acenaphthylene	500,000	1,000,000	ug/kg	<110 U	<110 U	<130 U				
Anthracene	500,000	1,000,000	ug/kg	<110 U	<110 U	<130 U				
Benzo(A)Anthracene	5,600	11,000	ug/kg	<120 U	<120 U	<140 U				
Benzo(A)Pyrene	1,000	1,100	ug/kg	<140 U	<150 U	<170 U				
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	<130 U	<140 U	<160 U				
Benzo(G,H)Perylene	500,000	1,000,000	ug/kg	<110 U	<110 U	<130 U				
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	<140 U	<150 U	<170 U				
Chrysene	56,000	110,000	ug/kg	<140 U	<150 U	<170 U				
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<120 U	<120 U	<140 U				
Dibenzofuran	350,000	1,000,000	ug/kg	<75 U	<78 U	<92 U				
Fluoranthene	500,000	1,000,000	ug/kg	<140 U	<150 U	<170 U				
Fluorene	500,000	1,000,000	ug/kg	<84 U	<91 U	<110 U				
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	<130 U	<140 U	<160 U				
Naphthalene	500,000	1,000,000	ug/kg	<96 U	<110 U	<120 U				
Phenanthrene	500,000	1,000,000	ug/kg	<120 U	<120 U	<140 U				
Pyrene	500,000	1,000,000	ug/kg	<150 U	<160 U	<190 U				
TEL Metals (SW810)										
Arsenic	16	16	mg/kg	2.2	4.3	2.9				
Barium	400	10,000	mg/kg	129	71.6	145				
Mercury (SW7471)										
Mercury	2.8	5.7	mg/kg	<0.014 U	<0.015 U	<0.017 U				
Total Cyanide (SW90128)										
Cyanide	27	10,000	mg/kg	5.71	0.63	1				

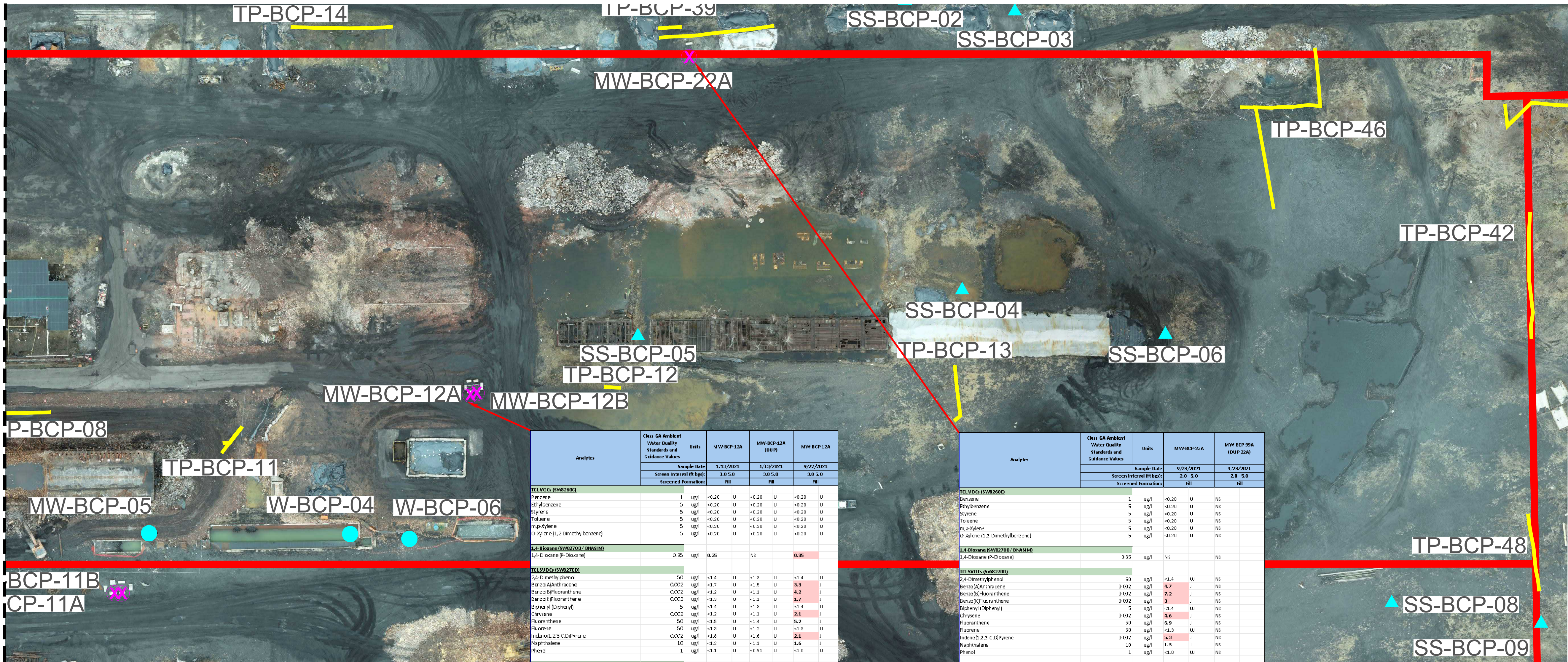
Analytes	Part 375 SCDs		Units	TP-BCP-13	TP-BCP-13	
	Commercial	Industrial				
	Sample Date: 11/5/2020					11/5/2020
	Sample Interval: 18 - 20 in					80 - 82 in
	Formation: Clay					Clay
TEL SVOCs (SW8270D)						
Acephenanthrene	500,000	1,000,000	ug/kg	<110 U	<94 U	
Acephenanthylene	500,000	1,000,000	ug/kg	150 J	<126 U	
Anthracene	500,000	1,000,000	ug/kg	310 J	<126 U	
Benzo(a)Anthracene	5,600	11,000	ug/kg	580	<136 U	
Benzo(a)Pyrene	1,000	1,100	ug/kg	520	<156 U	
Benzo(b)Fluoranthene	5,600	11,000	ug/kg	1600	<146 U	
Benzo(g,h,i)Perylene	500,000	1,000,000	ug/kg	380 J	<126 U	
Benzo(k)Fluoranthene	56,000	110,000	ug/kg	350 J	<166 U	
Chrysene	56,000	110,000	ug/kg	880	<166 U	
Dibenz(a,h)Anthracene	560	1,100	ug/kg	<150 U	<136 U	
Dibenzofuran	350,000	1,000,000	ug/kg	220 J	<93 U	
Fluoranthene	500,000	1,000,000	ug/kg	1300	<166 U	
Fluorene	500,000	1,000,000	ug/kg	<120 U	<97 U	
Indeno(1,2,3-c,d)Pyrene	5,600	11,000	ug/kg	460 J	<146 U	
Naphthalene	500,000	1,000,000	ug/kg	610	<116 U	
Phenanthrene	500,000	1,000,000	ug/kg	800	<136 U	
Pyrene	500,000	1,000,000	ug/kg	910	<170 U	
TEL Metals (SW810)						
Arsenic	16	16	mg/kg	7	26.7	
Barium	400	10,000	mg/kg	239	143	
Mercury (SW7471)						
Mercury	2.8	5.7	mg/kg	0.032 J	1.2	
Total Cyanide (SW90128)						
Cyanide	27	10,000	mg/kg	20	4.39	

Analytes	Part 375 SCDs
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MATCHLINE AOI 2 WEST



Analytes		Units	Class 6A Ambient Water Quality Standards and Guidance Values			
				MVV-BQP-12A	MVV-BQP-12A (0195)	9/22/2021
			Sample Date	1/13/2021	1/13/2021	9/22/2021
			Screen Interval (ft) Depth	3.0 S.B.	3.0 S.B.	3.0 S.B.
Screened formation:			fill	fill	fill	
TEL VOCs (SV#2560)						
Benzene	1	ug/l	<0.20	U	<0.20	U
Ethylbenzene	5	ug/l	<0.20	U	<0.20	U
Styrene	5	ug/l	<0.20	U	<0.20	U
Toluene	5	ug/l	<0.20	U	<0.20	U
m,p-Xylene	5	ug/l	<0.20	U	<0.20	U
O-Xylene (1,2-Dimethylbenzene)	5	ug/l	<0.20	U	<0.20	U
1,4-Dioxane (SV#6270) / RHANM						
1,4-Dioxane (P-Dioxane)	0.35	ug/l	0.25	NS		0.35
TEL SVOCs (SV#2720)						
2,4-Dimethylphenol	50	ug/l	<1.4	U	<1.4	U
Benzo(a)Anthracene	0.002	ug/l	<1.7	U	<1.5	1.3
Benzo(b)Fluoranthene	0.002	ug/l	<1.2	U	<1.1	4.2
Benzo(k)Fluoranthene	0.002	ug/l	<1.3	U	<1.4	1.7
Biphenyl (Diphenyl)	5	ug/l	<1.4	U	<1.3	<1.4
Chrysene	0.002	ug/l	<1.2	U	<1.1	2.1
Fluoranthene	50	ug/l	<1.5	U	<1.4	5.2
Fluorene	50	ug/l	<1.3	U	<1.2	<1.3
Indro(1,2,3-CD)Pyrene	0.002	ug/l	<1.8	U	<1.6	2.1
Naphthalene	10	ug/l	<1.2	U	<1.1	1.6
Phenol	1	ug/l	<1.1	U	<0.91	<1.0
TEL Metals (SV#6010)						
Arsenic	25	ug/l	<5.5	U	NS	7.4
Barium	1,000	ug/l	144	NS		191
Beryllium	3	ug/l	<0.13	U	NS	0.4
Cadmium	5	ug/l	<0.35	U	NS	<0.35
Chromium, Total	50	ug/l	<0.59	U	NS	8.4
Copper	200	ug/l	<3.9	U	NS	0.4
Iron	300	ug/l	1630	NS		11800
Lead	25	ug/l	<2.1	U	NS	23.2
Magnesium	35,000	ug/l	19400	NS		28800
Manganese	300	ug/l	360	NS		717
Nickel	100	ug/l	<2.6	U	NS	<2.5
Selenium	10	ug/l	<4.4	U	NS	<4.4
Sodium	20,000	ug/l	67000	NS		83500
Zinc	2,000	ug/l	<5.4	U	NS	12.1
Cyanide (SV#90120) / RHADA-011						
Cyanide	0.20	mg/l	0.347	J	0.362	J
PCBides (00010)						
Delta BHC (Delta Hexachlorocyclohexane)	0.04	ug/l	<0.020	U	NS	<0.021
Gamma BHC (Gamma Hexachlorocyclohexane)	0.04	ug/l	<0.020	U	NS	<0.021
Chlordane (Technical)	0.05	ug/l	<0.020	U	NS	<0.021
PFAS (SV#2)						
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/l	<4.4	U	NS	1.2
Perfluorooctanoic acid (PFOA)	6.7	ng/l	<8.2	NS		6.5
1H,1H,2H,2H-Perfluorooctane sulfonic acid	100	ng/l	<0.55	U	NS	2.0
Ammonia (SV#610)						
Nitrogen, Ammonia (As-N)	2	mg/l	NS	NS	NS	NS

Analytes	Class 6A Ambient Value Quality Standards and Guidance Values		Units		MW BCP-22A		MW BCP-90A (BUP-22A)	
			Sample Date		9/23/2021		9/23/2021	
			Screen Interval (ft) Depth		2.0 S.B.		2.0 S.B.	
			Screened Formation		Fill		Fill	
TEL VOCs (SV#2560)								
Benzene	1	ug/l	<0.20	U			NS	
Ethylbenzene	5	ug/l	<0.20	U			NS	
Styrene	5	ug/l	<0.20	U			NS	
Toluene	5	ug/l	<0.20	U			NS	
m,p-Xylene	5	ug/l	<0.20	U			NS	
O-Xylene (1,2-Dimethylbenzene)	5	ug/l	<0.20	U			NS	
1,4-Dioxane (SV#6270) / RHANM								
1,4-Dioxane (P-Dioxane)	0.35	ug/l	NS				NS	
TEL SVOCs (SV#2720)								
2,4-Dimethylphenol	50	ug/l	<1.4	U			NS	
Benzo(a)Anthracene	0.002	ug/l	4.7	J			NS	
Benzo(b)Fluoranthene	0.002	ug/l	2.2	J			NS	
Benzo(k)Fluoranthene	0.002	ug/l	3	J			NS	
Biphenyl (Diphenyl)	5	ug/l	<1.4	U			NS	
Chrysene	0.002	ug/l	8.6	J			NS	
Fluoranthene	50	ug/l	6.9	J			NS	
Fluorene	50	ug/l	<1.3	U			NS	
Indeno(1,2,3-CD)Pyrene	0.002	ug/l	5.3	J			NS	
Naphthalene	10	ug/l	1.3	J			NS	
Phenol	1	ug/l	<1.0	U			NS	
TEL Metals (SV#6010)								
Arsenic	25	ug/l	67.4				NS	
Barium	1,000	ug/l	954				NS	
Beryllium	3	ug/l	1.3	J			NS	
Cadmium	5	ug/l	0.7	J			NS	
Chromium, Total	50	ug/l	46.3				NS	
Copper	200	ug/l	182				NS	
Iron	300	ug/l	61700				NS	
Lead	25	ug/l	47.4	J			NS	
Magnesium	35,000	ug/l	19300				NS	
Manganese	300	ug/l	485				NS	
Nickel	100	ug/l	24.1	J			NS	
Selenium	10	ug/l	19				NS	
Sodium	20,000	ug/l	17600				NS	
Zinc	2,000	ug/l	78.9				NS	
Cyanide (SV#90120) / RHADA-011								
Cyanide	0.20	mg/l	<0.15	U			NS	
Pesticides (DBP10)								
Beta BHC (Beta Hexachlorocyclohexane)	0.04	ug/l	NS				NS	
Delta BHC (Delta Hexachlorocyclohexane)	0.04	ug/l	NS				NS	
Gamma BHC (Gamma Hexachlorocyclohexane)	0.05	ug/l	NS				NS	
Chlordane (Technical)	0.05	ug/l	NS				NS	
PFAS (SV#2)								
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/l	NS				NS	
Perfluorooctanoic acid (PFOA)	6.7	ng/l	NS				NS	
1H,1H,2H,2H-Perfluorooctane sulfonic acid	100	ng/l	NS				NS	
Ammonia (SV#610)								
Nitrogen, Ammonia (As-N)	2	mg/l	0.904				0.908	

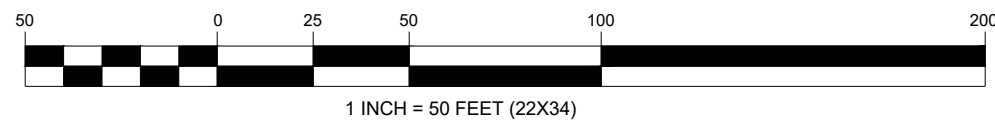
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FIGURE 4 - 17
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MATCHLINE AOI 2 WEST



Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-12B		MW-BCP-12B	
			Sample Date		1/14/2021	9/22/2021
			Screen Interval (ft bgs):		15 - 25	15 - 25
			Screened Formation:		Upper Clay	Upper Clay
TAL Metals (SW6010)						
Arsenic	2.5	ug/l	<5.5	U	<5.5	U
Barium	1,000	ug/l	72.9		110	
Beryllium	3	ug/l	<0.13	U	0.2	J
Chromium, Total	50	ug/l	2.2	J	8.7	J
Copper	200	ug/l	<3.9	U	5.3	J
Iron	300	ug/l	998		2550	J
Lead	2.5	ug/l	<2.1	U	<2.1	U
Magnesium	35,000	ug/l	115000		130000	
Manganese	300	ug/l	52		70.8	
Nickel	100	ug/l	<2.6	U	<2.6	U
Selenium	10	ug/l	<6.4	U	<6.4	U
Sodium	20,000	ug/l	52000		56400	
Zinc	2,000	ug/l	<9.4	U	8	J
Cyanide (SW90120/ KFLADA-01)						
Cyanide	0.20	mg/l	1.41		1.60	



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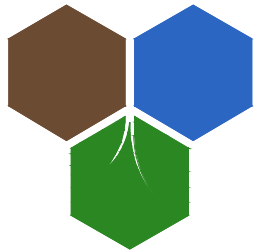
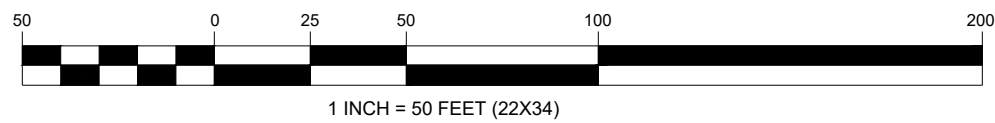


FIGURE 4 - 18

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AOI 2 EAST

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Analytes	Part 375 SCOs		Units	MW-BCP-01		MW-BCP-01		MW-BCP-01	
	Commercial	Industrial		Sample Date: 10/28/2020		10/28/2020		10/28/2020	
	Sample Interval: 0 - 2 in			2 - 6 in		0 - 1 ft			
	Formation: Surface Soil			Surface Soil		Shallow Fill			
TCL SVOCs (SW6270D)									
Benzo(A)Anthracene	5,600	11,000	ug/kg	24000	D	NS		750	
Benzo(A)Pyrene	1,000	1,100	ug/kg	27000	D	NS		3000	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	28000	D	NS		1200	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	4500	DJ	NS		150	J
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	18000	D	NS		610	
TAL Metals (SW6010)									
Barium	400	10,000	mg/kg	59.4		NS		92.6	

Analytes	Part 375 SCOs		Units	MW-BCP-03	MW-BCP-03	MW-BCP-03	
	Commercial	Industrial					
				Sample Date:	10/27/2020	10/27/2020	10/27/2020
				Sample Interval:	0 - 2 in	2 - 6 in	0.5 - 1 ft
				Formation:	Surface Soil	Surface Soil	Shallow Fill
TCL SVOCs (SW6270D)							
Benzo (A)Anthracene	5,600	11,000	ug/kg	2900	NS	460	
Benzo (A)Pyrene	1,000	1,100	ug/kg	4100	NS	790	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	5100	D NS	910	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	740	DJ NS	140 J	
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	3400	D NS	660	
TAL Metals (SW6010)							
Barium	400	10,000	mg/kg	146	NS	946	



Analytes	Part 375 SEDs		Units	SW-BCP-10	
	Commercial	Industrial		Sample Date: 11/18/2020	0 - 2 ft
	Sample Interval:				
	Formation:				
	Shallow Fill				
TCL SVOCs (SW6270D)					
Anthracene	500,000	1,000,000	ug/kg	590	
Benzo(a)anthracene	5,600	11,000	ug/kg	3100	D
Benzo(a)pyrene	1,000	1,100	ug/kg	4700	D
Benzo(b)fluoranthene	5,600	11,000	ug/kg	5500	D
Benzo(k)fluoranthene	56,000	110,000	ug/kg	1600	D
Chrysene	56,000	110,000	ug/kg	3700	D
Dibenz(a,h)anthracene	560	1,100	ug/kg	700	D
Fluoranthene	500,000	1,000,000	ug/kg	5900	D
Fluorene	500,000	1,000,000	ug/kg	160	J
Indeno(1,2,3-cd)pyrene	5,600	11,000	ug/kg	3700	D
Naphthalene	500,000	1,000,000	ug/kg	200	J
Phenanthrene	500,000	1,000,000	ug/kg	2100	D
Pyrene	500,000	1,000,000	ug/kg	5400	D
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	16.7	N
Lead	1,000	3,200	mg/kg	61.8	
Mercury (SW7371)					
Mercury	2.8	5.7	mg/kg	0.302	
Total Contaminants (SW6010)					
Cyanide	27	10,000	mg/kg	0.78	

Analytes	Part 375 SCOs		Units	MW-BCP-02	
	Commercial	Industrial		Sample Date: 11/16/2020	
	Sample Interval: 0 - 1 ft				
	Formation: Shallow Fill				
	Shallow Fill				
TCL SVOCs (SW6270D)					
Benzo(a)Anthracene	5,600	11,000	ug/kg	3400	
Benzo(a)Pyrene	1,000	1,100	ug/kg	3700	D
Benzo(b)Fluoranthene	5,600	11,000	ug/kg	4100	D
Benzo(k)Fluoranthene	56,000	110,000	ug/kg	1500	
Chrysene	56,000	110,000	ug/kg	3600	D
Dibenz(a,h)Anthracene	560	1,100	ug/kg	730	D
Fluoranthene	500,000	1,000,000	ug/kg	5100	D
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	2800	D
Pyrene	500,000	1,000,000	ug/kg	6100	D
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	0.9	J
Copper	270	10,000	mg/kg	44.8	J
Mercury (SW7371)					
Mercury	2.8	5.7	mg/kg	0.037	
Total Contaminants (SW6010)					
Cyanide	27	10,000	mg/kg	2.63	

Analytes	Part 375 SCOs		Units	TP-BCP-45	
	Commercial	Industrial		Sample Date: 11/12/2020	
				Sample Interval: 0 - 1 ft	
				Formation: Shallow Fill	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	2000	
Benzo(A)Pyrene	1,000	1,100	ug/kg	1800	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	3400	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	480	J
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	1800	

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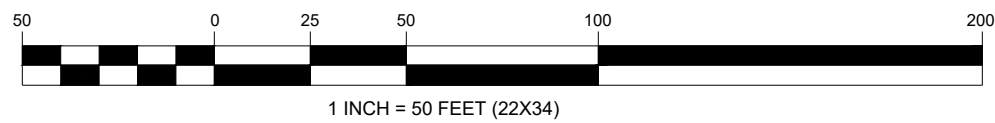
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FIGURE 4 - 19

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Analytes	Part 375 SDOs		Units							
	Commercial	Industrial		MW-BCP-15	MW-BCP-15	MW-BCP-15	MW-BCP-15	MW-BCP-15		
	Sample Date:			10/25/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020		
	Sample Interval:			0 - 2 in	DUP (0 - 2 in)	2 - 6 in	DUP (2 - 6 in)	0.5 - 1 ft		
	Formation:			Surface Soil	Surface Soil	Surface Soil	Surface Soil	Shallow Fill		
TCL SVOCs (SW8270D)										
Benzo(A)Anthracene	5,600	11,000	ug/kg	2500	J	1900	NS	NS	1200	
Benzo(A)Pyrene	1,000	1,100	ug/kg	3500	J	2100	NS	NS	1500	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	4400	J	2500	NS	NS	1700	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	490	J	<330	U	NS	220	J
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	2200	J	1500	NS	NS	850	
TAL Metals (SW5010)										
Barium	400	10,000	mg/kg	147		158	NS	NS		1140

Analytes	Part 375 SDOs		Units	MW-BCP-03		MW-BCP-03		MW-BCP-03	
	Commercial	Industrial							
	Sample Date:			10/27/2020		10/27/2020		10/27/2020	
	Sample Interval:			0 - 2 in		2 - 6 in		0.5 - 1 ft	
	Formation:			Surface Soil		Surface Soil		Shallow Fill	
TCL SVOCs (SW8270D)									
Benzo(A)Anthracene	5,600	11,000	ug/kg	2900		NS		460	
Benzo(A)Pyrene	1,000	1,100	ug/kg	4100		NS		790	
Benzo(B)fluoranthene	5,600	11,000	ug/kg	5100	D	NS		910	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	740	DJ	NS		140	
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	3400	D	NS		660	
TAL Metals (SW5010)									
Barium	400	10,000	mg/kg	146		NS		846	



Analytes	Part 375 SCOs		Units	TP-BCP-45	
	Commercial	Industrial			
	Sample Date:			11/12/2020	
	Sample Interval:			0 - 1 ft	
	Formation:			Shallow Fill	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	2000	
Benzo(A)Pyrene	1,000	1,100	ug/kg	1800	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	3400	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	480	J
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	1800	



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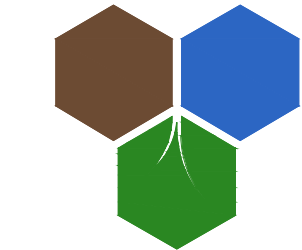


FIGURE 4 - 20

DRAWING NUMBER
AOI 3 SOUTH

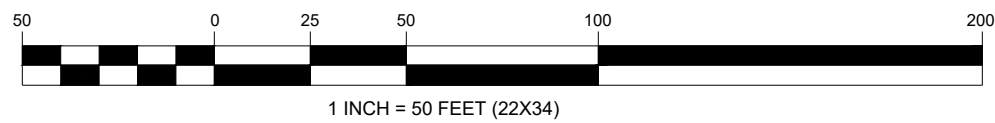
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Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-03A	MW-BCP-03A (DUP)	MW-BCP-03A	MW-BCP-03A	
			Sample Date	1/12/2021	1/12/2021	9/21/2021	10/27/2021
			Screen Interval (ft bgs):	1.5 - 3.5	1.5 - 3.5	1.5 - 3.5	1.5 - 3.5
			Screened Formation:	Fill	Fill	Fill	Fill
TAL Metals (SW6010)							
Iron	300	ug/l	NS	NS	NS	NS	
Magnesium	35,000	ug/l	NS	NS	NS	NS	
Manganese	300	ug/l	NS	NS	NS	NS	
Sodium	20,000	ug/l	NS	NS	NS	NS	
PFAS (E537)							
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/l	NS	NS	NS	NS	
Perfluorobutanoic Acid	100	ng/l	NS	NS	NS	NS	
Perfluorooctanoic acid (PFOA)	6.7	ng/l	NS	NS	NS	NS	
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	100	ng/l	NS	NS	NS	NS	

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-01A	MW-BCP-01A (DUP)	MW-BCP-01A	MW-BCP-01A			
			Sample Date	1/12/2021	1/12/2021	9/21/2021	10/27/2021		
			Screen Interval (ft bgs):	1.5 - 3.5	1.5 - 3.5	1.5 - 3.5	1.5 - 3.5		
			Screened Formation:	Fill	Fill	Fill	Fill		
TAL Metals (SW6010)									
Iron	300	ug/l	657	NS	<61	U	NS		
Magnesium	35,000	ug/l	38000	NS	56800		NS		
Manganese	300	ug/l	51.9	NS	34.3		NS		
Sodium	20,000	ug/l	8090	NS	15700		NS		
PFAS (E537)									
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/l	0.73	J	0.72	J	NS		
Perfluorobutanoic Acid	100	ng/l	66		64	390	J	NS	
Perfluorooctanoic acid (PFOA)	6.7	ng/l	4.4		4	7.7	J	NS	
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	100	ng/l	<0.55	U	<0.55	U	<0.55	U	NS



Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-02A		MW-BCP-02A (DUP)		MW-BCP-02A		MW-BCP-02A	
			Sample Date		1/12/2021		1/12/2021		9/22/2021	
			Screen Interval (ft bgs):		3.0 - 5.0		3.0 - 5.0		3.0 - 5.0	
			Screened Formation:		Fill		Fill		Fill	
TCL VOCs (SW8260C)										
Benzene		1	ug/l	<0.20	U	NS		<0.20	U	NS
Ethylbenzene		5	ug/l	<0.20	U	NS		<0.20	U	NS
Styrene		5	ug/l	<0.20	U	NS		<0.20	U	NS
Toluene		5	ug/l	<0.20	U	NS		<0.20	U	NS
m,p-Xylene		5	ug/l	<0.20	U	NS		<0.20	U	NS
O-Xylene (1,2-Dimethylbenzene)		5	ug/l	<0.20	U	NS		<0.20	U	NS
1,4-Dioxane (SW8270D/ RNASIM)										
1,4-Dioxane (P-Dioxane)		0.35	ug/l	NS		NS		NS		NS
TCL SVOCs (SW8270D)										
2,4-Dimethylphenol		50	ug/l	<1.3	U	NS		<1.5	U	NS
Benzo(A)Anthracene		0.002	ug/l	<1.5	U	NS		<1.7	U	NS
Benzo(B)Fluoranthene		0.002	ug/l	<1.1	U	NS		<1.3	U	NS
Benzo(K)Fluoranthene		0.002	ug/l	<1.1	U	NS		<1.4	U	NS
Biphenyl (Diphenyl)		5	ug/l	<1.3	U	NS		<1.5	U	NS
Chrysene		0.002	ug/l	<1.1	U	NS		<1.3	U	NS
Fluoranthene		50	ug/l	<1.4	U	NS		<1.6	U	NS
Fluorene		50	ug/l	<1.2	U	NS		<1.4	U	NS
Indeno(1,2,3-C,D)Pyrene		0.002	ug/l	<1.6	U	NS		<1.9	U	NS
Naphthalene		10	ug/l	<1.1	U	NS		<1.3	U	NS
Phenol		1	ug/l	<0.91	U	NS		<1.1	U	NS
TAL Metals (SW6010)										
Arsenic		25	ug/l	<5.5	U	<5.5	U	<5.5	U	NS
Barium		1,000	ug/l	42.3		44		59.2		NS
Beryllium		3	ug/l	<0.13	U	<0.13	U	<0.13	U	NS
Cadmium		5	ug/l	<0.35	U	<0.35	U	<0.35	U	NS
Chromium, Total		50	ug/l	<0.59	U	<0.59	U	<1.4	U	NS
Copper		200	ug/l	<3.9	U	<3.9	U	<3.9	U	NS
Iron		300	ug/l	2670		2910		2420	J	NS
Lead		25	ug/l	5.8	J	<2.1	U	<2.1	U	NS
Magnesium		35,000	ug/l	22300		22500		35600		NS
Manganese		300	ug/l	807		829		687		NS
Nickel		100	ug/l	<2.6	U	<2.6	U	<2.6	U	NS
Selenium		10	ug/l	<6.4	U	<6.4	U	<6.4	U	NS
Sodium		20,000	ug/l	324000		325000		162000		NS
Zinc		2,000	ug/l	<3.4	U	<3.4	U	10.6	J	NS
Cyanide (SW9012B/ KELADA-01)										
Cyanide		0.20	mg/l	0.031		NS		<0.040	U	NS
Pesticides (8081B)										
Beta BHC (Beta Hexachlorocyclohexane)		0.04	ug/l	NS		NS		NS		NS
Delta BHC (Delta Hexachlorocyclohexane)		0.04	ug/l	NS		NS		NS		NS
Gamma BHC (Lindane)		0.05	ug/l	NS		NS		NS		NS
Chlordane (Technical)		0.05	ug/l	NS		NS		NS		NS
PFAS (E537)										
Perfluorooctanesulfonic acid (PFOS)		2.7	ng/l	NS		NS		NS		NS
Perfluorooctanoic acid (PFOA)		6.7	ng/l	NS		NS		NS		NS
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid		100	ng/l	NS		NS		NS		NS
Ammonia (E350.1)										
Nitrogen, Ammonia (As N)		2	mg/l	NS		NS		NS		0.993



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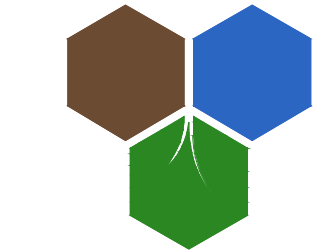
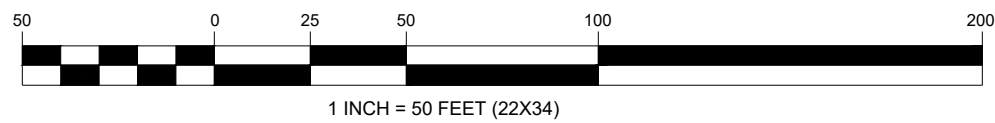


FIGURE 4 - 21

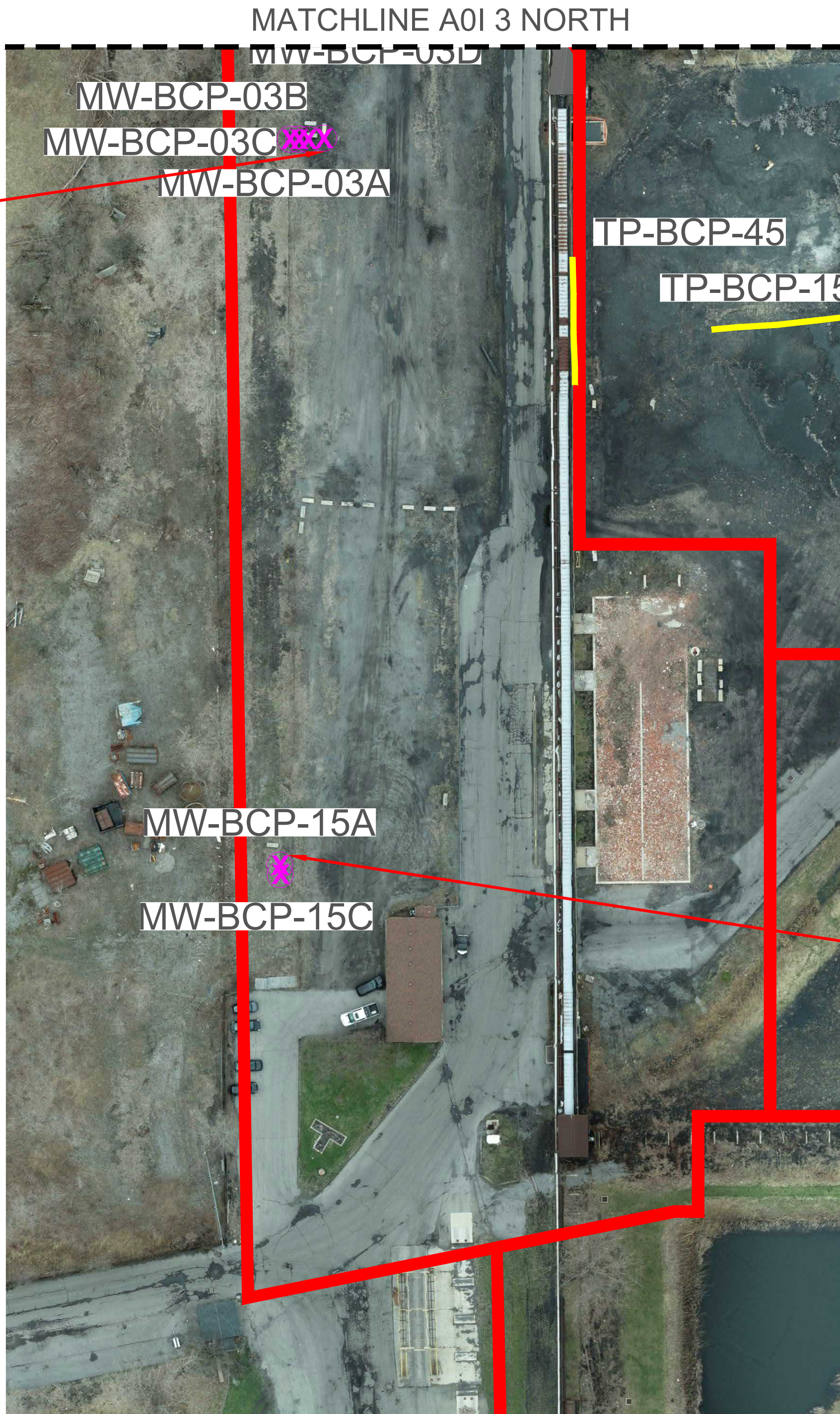
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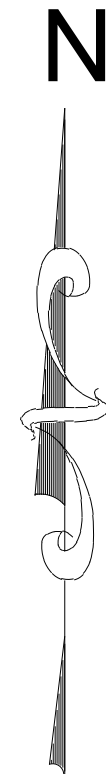
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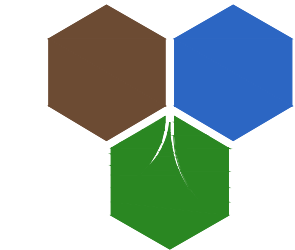
Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-03A		MW-BCP-03A (DUP)	MW-CP-03A	MW-BCP-03A	
			Sample Date		1/12/2021	1/12/2021	9/21/2021	10/27/2021
			Screen Interval (ft bgs):		1.5 - 3.5	1.5 - 3.5	1.5 - 3.5	1.5 - 3.5
			Screened Formation:		Fill	Fill	Fill	Fill
TAL Metals (SW6010)								
Iron	300	ug/l	NS		NS	NS	NS	
Magnesium	35,000	ug/l	NS		NS	NS	NS	
Manganese	300	ug/l	NS		NS	NS	NS	
Sodium	20,000	ug/l	NS		NS	NS	NS	
PFAS (E537)								
Perfluorobutanoic Acid	100	ng/l	NS		NS	NS	NS	



Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-8CP-15A		MW-8CP-15A (DUP)	
			Sample Date		1/12/2021	1/12/2021
			Screen Interval (ft bgs):		1.5 - 3.5	1.5 - 3.5
			Screened Formation:		Fill	Fill
TAL Metals (SW6010)						
Iron	300	ug/l	<61	U	1480	
Magnesium	35,000	ug/l	74700		336000	
Manganese	300	ug/l	618		277	
Sodium	20,000	ug/l	68100		116000	
PFAS (E537)						
Perfluorobutanoic Acid	100	ng/l	NS		NS	



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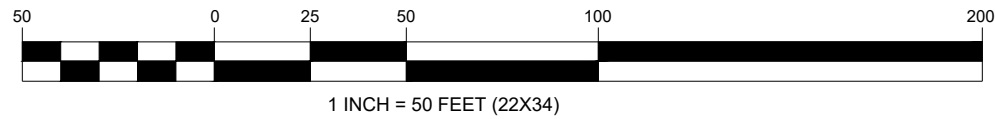
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Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-01B	MW-BCP-01B	MW-BCP-01C	MW-BCP-01C		
			Sample Date	1/12/2021	9/21/2021	1/12/2021	9/22/2021	
			Screen Interval (ft bgs):	10 - 20	10 - 20	29 - 39	29 - 39	
			Screened Formation:	Upper Clay	Upper Clay	Lower Clay	Lower Clay	
TAL Metals (SW6010)								
Iron	300	ug/l	113	<61	U	9480	15700	J
Magnesium	35,000	ug/l	143000	146000		144000	150000	
Sodium	20,000	ug/l	35200	31800		82300	70900	

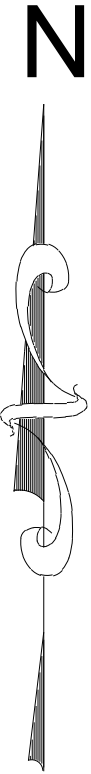
Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-03B		MW-BCP-03B		MW-BCP-03C		MW-BCP-03C			
			Sample Date		1/12/2021		9/21/2021		1/12/2021		9/21/2021	
			Screen Interval (ft bgs):		14 - 24		14 - 24		29 - 39		29 - 39	
			Screened Formation:		Upper Clay		Upper Clay		Lower Clay		Lower Clay	
TAL Metals (SW6010)												
Iron	300	ug/l	NS			NS		NS		NS		
Magnesium	35,000	ug/l	NS			NS		NS		NS		
Sodium	20,000	ug/l	NS			NS		NS		NS		

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MATCHLINE A01 3 SOUTH

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-02B		MW-BCP-02B	
			Sample Date		1/12/2021	9/22/2021
			Screen Interval (ft bgs):		0 - 15	0 - 15
			Screened Formation:		Upper Clay	Upper Clay
TAL Metals (SW6010)						
Arsenic	25	ug/l	<5.5	U	<5.5	U
Barium	1,000	ug/l	66.4		64	
Beryllium	3	ug/l	<0.13	U	<0.13	U
Chromium, Total	50	ug/l	3.5	J	<1.4	U
Copper	200	ug/l	<3.9	U	<3.9	U
Iron	300	ug/l	112		75.1	J
Lead	25	ug/l	<2.1	U	<2.1	U
Magnesium	35,000	ug/l	148000		173000	
Manganese	300	ug/l	73		85.2	
Nickel	100	ug/l	<2.6	U	<2.6	U
Selenium	10	ug/l	<6.4	U	<6.4	U
Sodium	20,000	ug/l	91500		87100	
Zinc	2,000	ug/l	<9.4	U	4.7	J
Cyanide (SW9012B/ KELADA-01)						
Cyanide	0.20	mg/l	<0.0040	U	<0.0040	U



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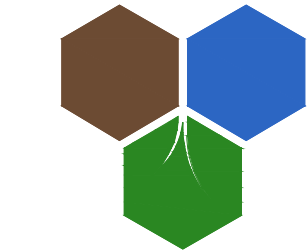


FIGURE 4 - 23

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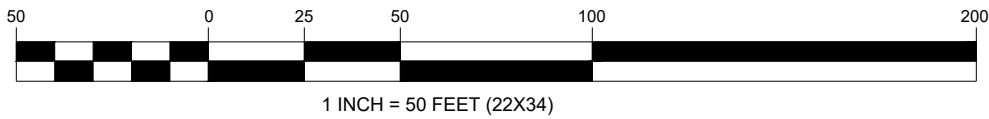
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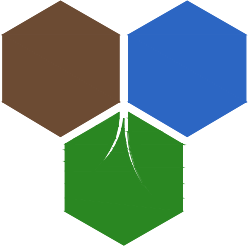
Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-03B		MW-BCP-03B		MW-BCP-03C		MW-BCP-03C			
			Sample Date		1/12/2021		9/21/2021		1/12/2021		9/21/2021	
			Screen Interval (ft bgs):		14 - 24		14 - 24		29 - 39		29 - 39	
			Screened Formation:		Upper Clay		Upper Clay		Lower Clay		Lower Clay	
TAL Metals (SW6010)												
Iron	300	ug/l	NS		NS		NS		NS			
Magnesium	35,000	ug/l	NS		NS		NS		NS			
Sodium	20,000	ug/l	NS		NS		NS		NS			



Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-15C		MW-BCP-15C			
			Sample Date		1/12/2021		9/21/2021	
			Screen Interval (ft bgs):		29 - 39		29 - 39	
			Screened Formation:		Lower Clay		Lower Clay	
TAL Metals (SW6010)								
Iron		300	ug/l	838		1250		
Magnesium		35,000	ug/l	349000		371000		
Sodium		20,000	ug/l	120000		140000		



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FIGURE 4 - 24

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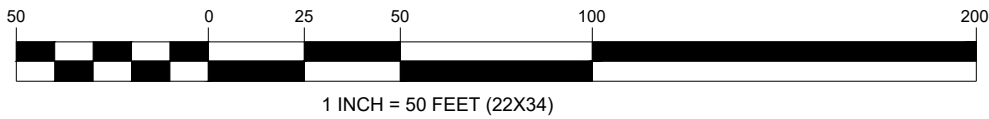
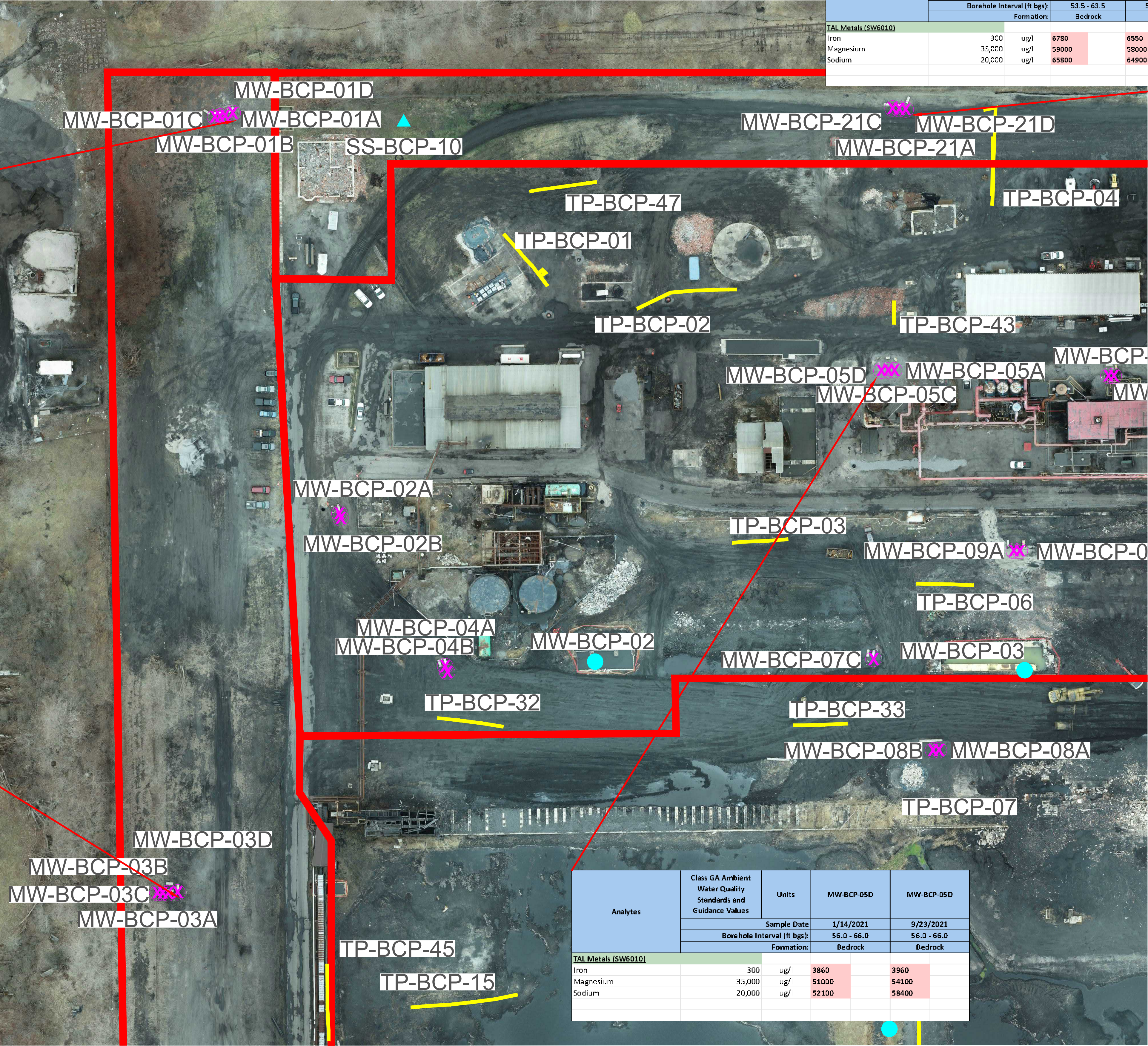
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Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-01D	MW-BCP-01A (DUP 01D)
	Sample Date			9/21/2021	9/21/2021
	Borehole Interval (ft bgs):			55.5 - 65.5	55.5 - 65.5
	Formation:			Bedrock	Bedrock
TAL Metals (SW6010)					
Iron	300	ug/l	1130	1150	
Magnesium	35,000	ug/l	10500	15900	
Sodium	20,000	ug/l	78100	75200	

Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-03D
	Sample Date			9/21/2021
	Borehole Interval (ft bgs):			54.5 - 64.5
	Formation:			Bedrock
TAL Metals (SW6010)				
Iron	300	ug/l	6730	
Magnesium	35,000	ug/l	138000	
Sodium	20,000	ug/l	157000	

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-21D	MW-BCP-97D (DUP 21D)
	Sample Date:		9/24/2021	9/24/2021
	Borehole Interval (ft bgs):		53.5 - 63.5	53.5 - 63.5
	Formation:		Bedrock	Bedrock
TAL Metals (SW6010)				
Iron	300	ug/l	6780	6550
Magnesium	35,000	ug/l	59000	58000
Sodium	20,000	ug/l	65800	64900

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-05D	MW-BCP-05D	
			Sample Date	1/14/2021	9/23/2021
			Borehole Interval (ft bgs):	56.0 - 66.0	56.0 - 66.0
			Formation:	Bedrock	Bedrock
TAL Metals (SW6010)					
Iron	300	ug/l	3860	3960	
Magnesium	35,000	ug/l	51000	54100	
Sodium	20,000	ug/l	52100	58400	



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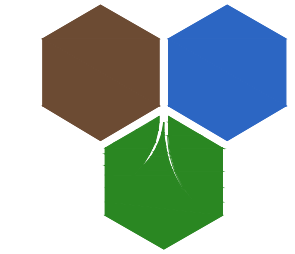


FIGURE 4 - 25

DRAWING NUMBER
AOI 3 NORTH

Analytes	Part 375 SCOs		Units	TP-BCP-45	
	Commercial	Industrial			
	Sample Date:			11/12/2020	
	Sample Interval:			0 - 1 ft	
	Formation:			Shallow Fill	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	2000	
Benzo(A)Pyrene	1,000	1,100	ug/kg	1800	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	3400	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	480	J
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	1800	

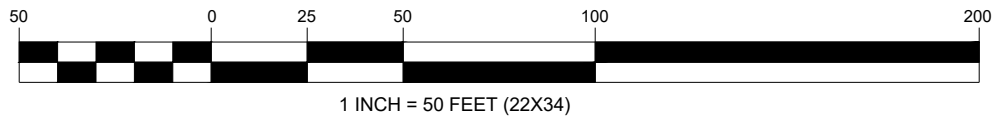
Analytes	Part 375 SCOs		Units	TP-BCP-07	
	Commercial	Industrial			
	Sample Date:			11/17/2020	
	Sample Interval:			0 to 1 ft	
	Formation:			Shallow Fill	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	13000	D
Benzo(A)Pyrene	1,000	1,100	ug/kg	17000	D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	18000	D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	3000	DJ
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	13000	D

Analytes	Part 375 SCOs		Units	MW-BCP-08	
	Commercial	Industrial			
	Sample Date:			11/10/2020	
	Sample Interval:			0 - 1 ft	
	Formation:			Shallow Fill	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	1800	
Benzo(A)Pyrene	1,000	1,100	ug/kg	2200	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	3200	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	370	J
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	1300	

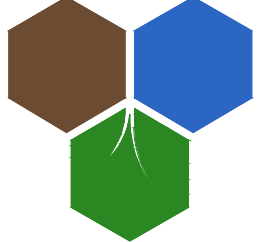


Analytes	Part 375 SCOs		Units	SD-BCP-03	
	Commercial	Industrial			
	Sample Date:			11/17/2020	
	Sample Interval:			Sediment	
	Formation:			Sediment Pond #003	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	730	
Benzo(A)Pyrene	1,000	1,100	ug/kg	780	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	850	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<190	U
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	400	J

Analytes	Part 375 SCOs		Units	TP-BCP-16	
	Commercial	Industrial			
	Sample Date:			11/12/2020	
	Sample Interval:			0 to 1 ft	
	Formation:			Shallow Fill	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	<1100	U
Benzo(A)Pyrene	1,000	1,100	ug/kg	1700	J
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	1900	J
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<1100	U
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	1300	J



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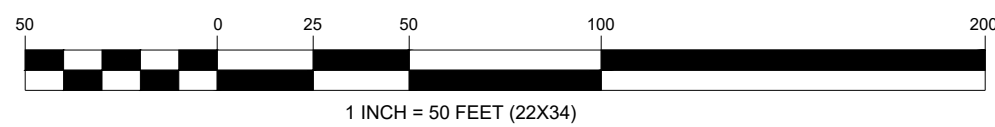
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Analytes	Part 375 SCOs		Units	MW-BCP-24A	
	Commercial	Industrial		Sample Date:	6/22/2021
				Sample Interval:	0 - 1 ft
				Formation:	Fill
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	3600	J
Benzo(A)Pyrene	1,000	1,100	ug/kg	4700	J
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	5900	J
Dibenz(A,H)Anthracene	560	1,100	ug/kg	790	J
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	3800	J

Analytes	Part 375 SCOs		Units	MW-BCP-13	
	Commercial	Industrial		Sample Date:	11/5/2020
				Sample Interval:	0 - 1 ft
				Formation:	Shallow Fill
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	32000	D
Benzo(A)Pyrene	1,000	1,100	ug/kg	27000	D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	32000	D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	3400	J
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	17000	DI

Analytes	Part 375 SCOs		Units	TP-BCP-24			
	Commercial	Industrial		Sample Date:	TP-BCP-24		
				Sample Interval:	11/13/2020		
				Formation:	0 - 1 ft		
				Shallow Fill	Shallow Fill		
TCL SVOCs (SW8270D)							
Benzo(A)Anthracene	5,600	11,000	ug/kg	7400	D	5400	D
Benzo(A)Pyrene	1,000	1,100	ug/kg	9800	D	6000	D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	10000	D	7100	D
Benzo(C)Fluoranthene	56,000	110,000	ug/kg	2400	D		
Chrysene	56,000	110,000	ug/kg	7000	D	5300	D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	1700	DI	1300	DI
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	6300	D	4500	D
TAL Metals (SW6010)							
Arsenic	16	16	mg/kg	16	J	40.3	J

Analytes	Part 375 SCOs		Units	SS-BCP-07	
	Commercial	Industrial		Sample Date:	11/12/2020
				Sample Interval:	Debris Pile
				Formation:	Shredder Material
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	3800	
Benzo(A)Pyrene	1,000	1,100	ug/kg	2200	J
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	4900	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<690	U
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	1800	J

Analytes	Part 375 SCOs		Units	MW-BCP-25A	
	Commercial	Industrial		Sample Date:	6/22/2021
				Sample Interval:	0 - 1 ft
				Formation:	Fill
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	4500	J
Benzo(A)Pyrene	1,000	1,100	ug/kg	5000	J
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	5500	J
Benzo(C)Fluoranthene	56,000	110,000	ug/kg	1800	J
Chrysene	56,000	110,000	ug/kg	4900	J
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<1600	U
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	3200	J
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	4.5	J

Analytes	Part 375 SCOs		Units	SS-BCP-08	
	Commercial	Industrial			
			Sample Date:	11/12/2020	
			Sample Interval:	Debris Pile	
			Formation:	Shredder Material	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	<1100	U
Benzo(A)Pyrene	1,000	1,100	ug/kg	<1300	U
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	<1200	U
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<1100	U
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	<1200	U

Analytes	Part 375 SCOs		Units	TP-BCP-25	
	Commercial	Industrial		Sample Date:	10/28/2020
				Sample Interval:	0 - 1 ft
				Formation:	Shallow Fill
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	7800	D
Benzo(A)Pyrene	1,000	1,100	ug/kg	8100	D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	10000	D
Benzo(C)Fluoranthene	56,000	110,000	ug/kg	8800	D
Chrysene	56,000	110,000	ug/kg	8600	D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	1500	D
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	5400	D
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	5.6	J

Analytes	Part 375 SCOs		Units	SS-BCP-09	
	Commercial	Industrial		Sample Date:	11/12/2020
				Sample Interval:	Debris Pile
				Formation:	Shredder Material
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	1600	J
Benzo(A)Pyrene	1,000	1,100	ug/kg	1800	J
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	2700	J
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<1100	U
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	1400	J



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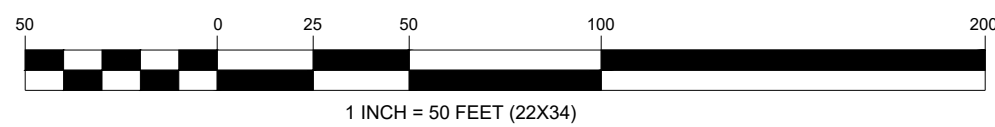
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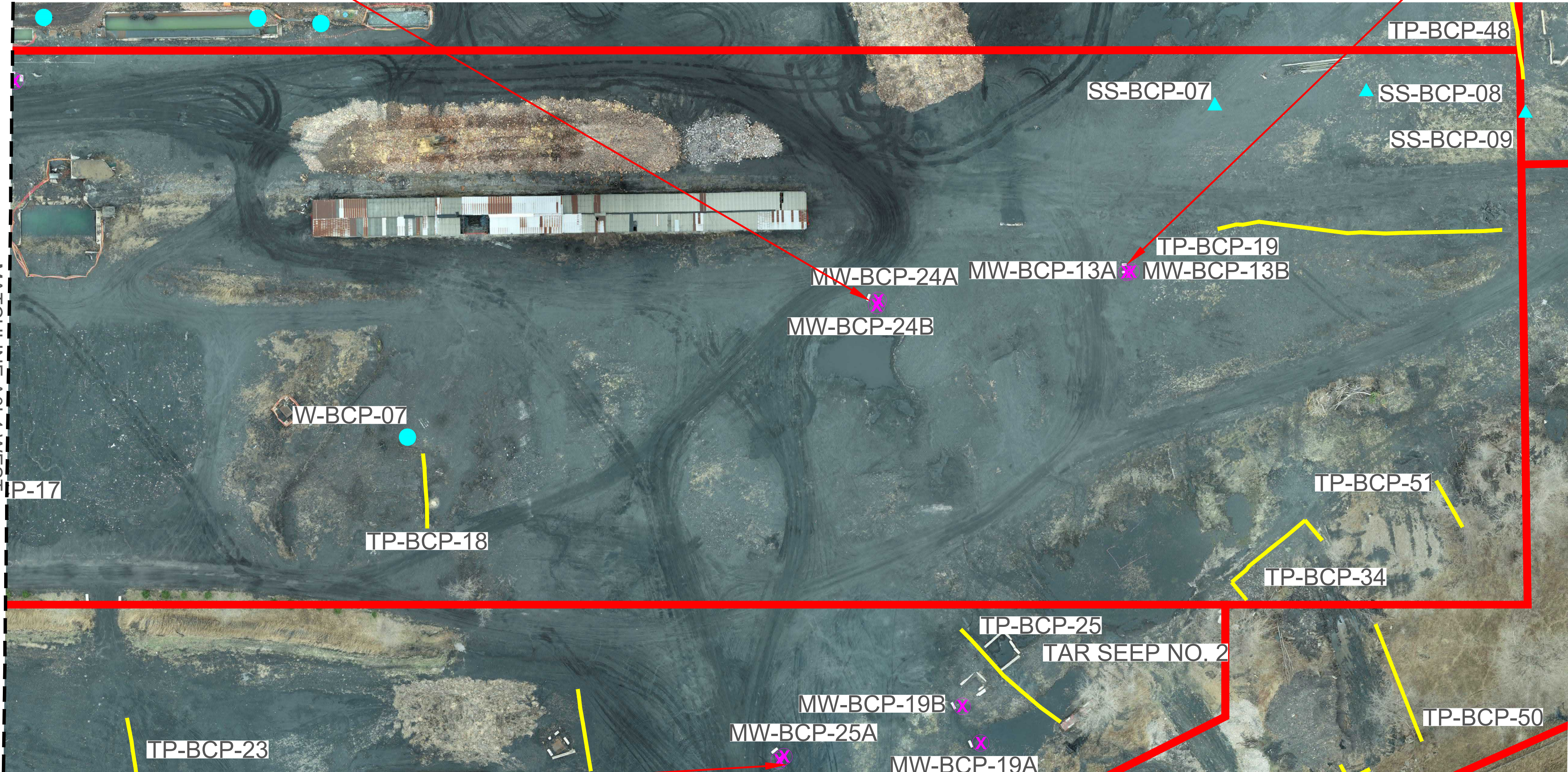
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FIGURE 4 - 27

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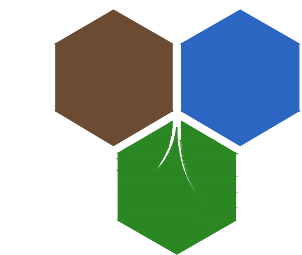
MATCHLINE A01 4 WEST



Analytes	Part 375 SCOs		Units	MW-BCP-24A	
	Commercial	Industrial			
			Sample Date:	6/22/2021	
			Sample Interval:	11 - 12 ft	
			Formation:	Clay	
TCL SVOCs (SW8270D)					
Benzo(A)Pyrene	1,000	1,100	ug/kg	<110	U
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	3.9	J
Copper	270	10,000	mg/kg	23.3	J
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	<0.014	U
Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	0.18	J

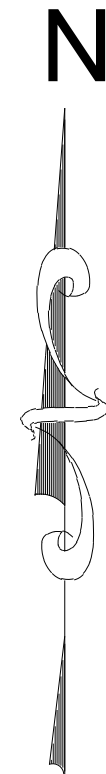
Analytes	Part 375 SCOs		Units	MW-BCP-13	
	Commercial	Industrial			
	Sample Date:				11/5/2020
	Sample Interval:				17 - 18 ft
		Formation:	Clay		
TCL SVOCs (SW8270D)					
Benzo(A)Pyrene	1,000	1,100	ug/kg	910	
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	3.7	
Copper	270	10,000	mg/kg	21.1	
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.057	
Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	<0.19 U	

Analytes	Part 375 SCOs		Units	MW-BCP-25A		MW-BCP-25A	
	Commercial	Industrial					
				Sample Date:	6/22/2021	6/22/2021	
				Sample Interval:	6 - 7 ft	9 - 10 ft	
				Formation:	Clay	Clay	
TCL SVOCs (SW8270D)							
Benzo(A)Pyrene	1,000	1,100	ug/kg	<110	U	<110	U
TAL Metals (SW6010)							
Arsenic	16	16	mg/kg	6.9	J	7.5	J
Copper	270	10,000	mg/kg	24.4	J	25.6	J
Mercury (SW7471)							
Mercury	2.8	5.7	mg/kg	0.018	J	0.019	J
Total Cyanide (SW9012B)							
Cyanide	27	10,000	mg/kg	<0.17	U	0.24	J



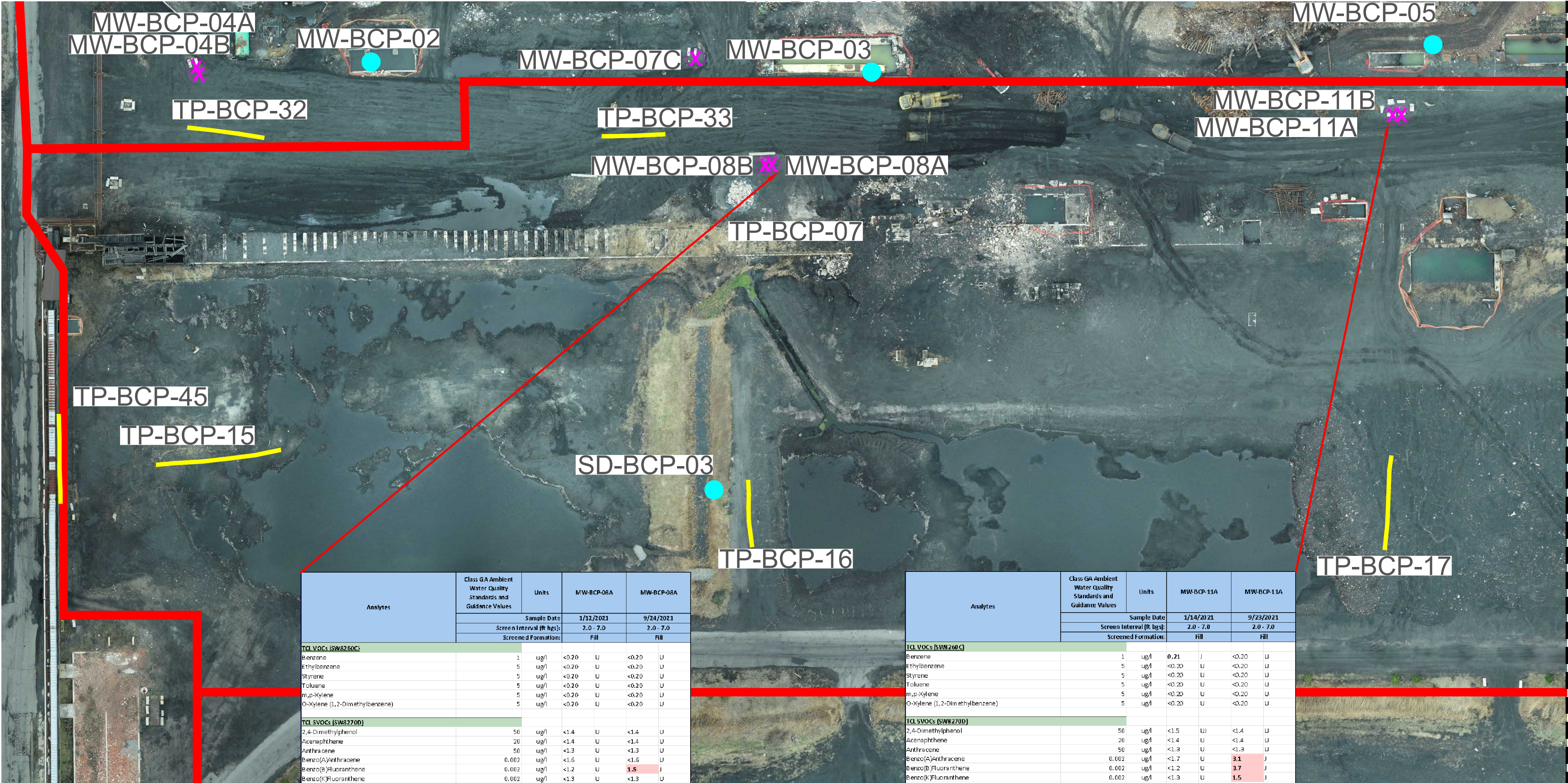
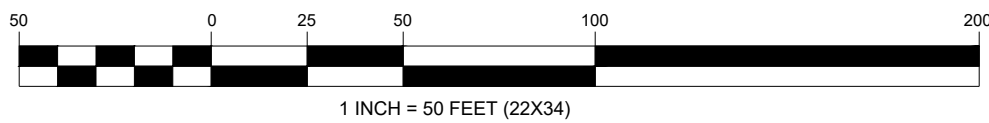
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Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	M/W-BCP-06A		M/W-BCP-05A	
			Sample Date		1/12/2021	9/24/2011
			Screen Interval (ft. bgs):		2.0 - 7.0	2.0 - 7.0
			Screened Formations:		Fill	Fill
TCL VOCs (SW8260C)						
Benzene	1	ug/l	<0.20	U	<0.20	U
Ethylbenzene	5	ug/l	<0.20	U	<0.20	U
Styrene	5	ug/l	<0.20	U	<0.20	U
Toluene	5	ug/l	<0.20	U	<0.20	U
m,p-Xylene	5	ug/l	<0.20	U	<0.20	U
O-Xylene (1,2-Dimethylbenzene)	5	ug/l	<0.20	U	<0.20	U
TCL SVOCs (SW8270D)						
2,4-Dimethylphenol	50	ug/l	<1.4	U	<1.4	U
Acenaphthene	20	ug/l	<1.4	U	<1.4	U
Anthracene	50	ug/l	<1.3	U	<1.3	U
Benzo(a)anthracene	0.002	ug/l	<1.6	U	<1.5	U
Benzo(b)fluoranthene	0.002	ug/l	<1.2	U	1.5	J
Benzo(k)fluoranthene	0.002	ug/l	<1.3	U	<1.3	U
Biphenyl (Diphenyl)	5	ug/l	<1.4	U	<1.4	U
Chrysene	0.002	ug/l	<1.2	U	1.2	J
Fluoranthene	50	ug/l	<1.5	U	2.5	J
Fluorene	50	ug/l	<1.3	U	<1.3	U
Indeno(1,2,3-CD)Pyrene	0.002	ug/l	<1.8	U	<1.8	U
Naphthalene	10	ug/l	<1.2	U	<1.2	U
Phenanthrene	50	ug/l	<1.4	U	2.4	J
Phenol	1	ug/l	<1.0	U	<1.0	U
Pyrene	50	ug/l	<1.5	U	7	J
TAL Metals (SW5010)						
Arsenic	25	ug/l	<5.5	U	28.3	J
Chromium, Total	50	ug/l	<15.6	U	16.4	J
Iron	300	ug/l	10300	J	35700	J
Lead	25	ug/l	<2.1	U	22.1	J
Manganese	300	ug/l	1330	J	1150	J
Sodium	20,000	ug/l	115000	J	84800	J
Mercury (SW7470)						
Mercury	0.7	ug/l	<0.077	U	0.172	J
Cyanide (SW90126/MTLADA-01)						
Cyanide	0.20	mg/l	0.0309	J	<0.38	U
PCBs (B082A)						
PCB-1248 (Aroclor 1248)	0.05	ug/l	NS	J	NS	J
Herbicides (SW151A)						
Silver (2,4,5-TP)	0.26	ug/l	NS	J	NS	J

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	M/W-BCP-11A		M/W-BCP-11A	
			Sample Date		1/14/2021	9/23/2021
			Screen Interval (ft. bgs)		2.0 - 7.0	2.0 - 7.0
			Screened Formation:		Fill	Fill
TCL VOCs (SW8260C)						
Benzene	1	ug/l	0.21	J	<0.20	U
Ethylbenzene	5	ug/l	<0.20	U	<0.20	U
Styrene	5	ug/l	<0.20	U	<0.20	U
Toluene	5	ug/l	<0.20	U	<0.20	U
m,p-Xylene	5	ug/l	<0.20	U	<0.20	U
O-Xylene (1,2-Dimethylbenzene)	5	ug/l	<0.20	U	<0.20	U
TCL SVOCs (SW8270D)						
2,4-Dimethylphenol	50	ug/l	<1.5	U	<1.4	U
Acenaphthene	20	ug/l	<1.4	U	<1.4	U
Anthracene	50	ug/l	<1.3	U	<1.3	U
Benzo(a)Anthracene	0.002	ug/l	<1.7	U	3.1	J
Benzo(b)Fluoranthene	0.002	ug/l	<1.2	U	3.7	J
Benzo(k)Fluoranthene	0.002	ug/l	<1.3	U	1.5	J
Biphenyl (Diphenyl)	5	ug/l	<1.5	U	<1.4	U
Chrysene	0.002	ug/l	<1.3	U	2.7	J
Fluoranthene	50	ug/l	<1.6	U	3.5	J
Fluorene	50	ug/l	<1.3	U	<1.3	U
Indeno(1,2,3-CD)Pyrene	0.002	ug/l	<1.9	U	<1.8	U
Naphthalene	10	ug/l	<1.3	U	<1.2	U
Phenanthrene	50	ug/l	<1.4	U	1.7	J
Phenol	1	ug/l	<1.1	U	<1.0	U
Pyrene	50	ug/l	<1.5	U	2.8	J
TAL Metals (SW5010)						
Arsenic	25	ug/l	<5.5	U	23	J
Chromium, Total	50	ug/l	<15.9	U	50.7	J
Iron	300	ug/l	685	J	40000	J
Lead	25	ug/l	<2.1	U	30.4	J
Manganese	300	ug/l	1660	J	785	J
Sodium	20,000	ug/l	181000	J	140000	J
Mercury (SW7470)						
Mercury	0.7	ug/l	<0.077	U	<0.077	U
Cyanide (SW90126/MTLADA-01)						
Cyanide	0.20	mg/l	0.0075	J	<0.040	U
PCBs (B082A)						
PCB-1248 (Aroclor 1248)	0.05	ug/l	NS	J	NS	J
Herbicides (SW151A)						
Silver (2,4,5-TP)	0.26	ug/l	NS	J	NS	J

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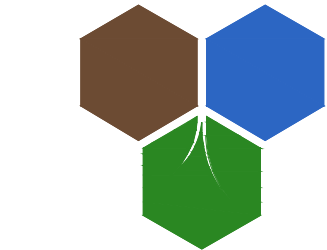
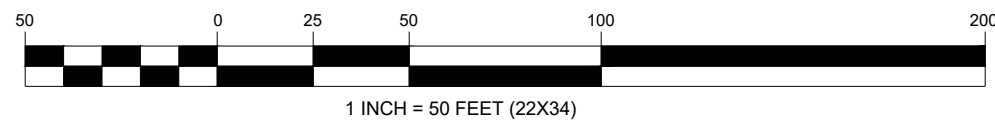


FIGURE 4 - 29
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MATCHLINE AOI 4 WEST



Analytes	Class GA Ambient Water Quality Standards and Guidance Values		MW-BCP-24A	
	Units		Sample Date	9/25/2021
	Screen Interval (ft bgs)	5.5 - 8.5		
	Screened Formation	RII		
TEL VOCs (SVW6260)				
Benzene	1	ug/l	<0.20	U
Ethylbenzene	5	ug/l	<0.20	U
Styrene	5	ug/l	<0.20	U
Toluene	5	ug/l	<0.20	U
m,p-Xylene	5	ug/l	<0.20	U
O-Xylene [1,2-Dimethylbenzene]	5	ug/l	<0.20	U
TEL SVOCs (SVW62700)				
2,4-Dimethylphenol	50	ug/l	<1.4	U
Acenaphthene	20	ug/l	<1.4	U
Anthracene	50	ug/l	<1.3	U
Benzo(a)Anthracene	0.002	ug/l	<1.4	U
Benzo(b)Fluoranthene	0.002	ug/l	<1.2	U
Benzo(k)Fluoranthene	0.002	ug/l	<1.3	U
Biphenyl (Diphenyl)	5	ug/l	<1.4	U
Chrysene	0.002	ug/l	<1.2	U
Fluoranthene	50	ug/l	<1.5	U
Fluorene	50	ug/l	<1.3	U
Indeno(1,2,3-CD)Pyrene	0.002	ug/l	<1.6	U
Naphthalene	10	ug/l	<1.2	U
Phenanthrene	50	ug/l	<1.4	U
Phenol	1	ug/l	<1.0	U
Pyrene	50	ug/l	<1.5	U
TAL Metals (SVW6300)				
Arsenic	25	ug/l	<5.5	U
Chromium, Total	50	ug/l	<1.4	U
Iron	300	ug/l	13300	
Lead	25	ug/l	<2.1	U
Manganese	300	ug/l	574	
Sodium	20,000	ug/l	34000	
Mercury (SVW6420)				
Mercury	0.7	ug/l	<0.077	U
Cyanide (SVW6120/REIADA-01)				
Cyanide	0.20	mg/l	0.078	
PCBs (SVW6320)				
PCB-1248 (Aroclor 1248)	0.09	ug/l	<0.50	U
Herbicides (SVW6151A)				
Alachlor (2,4,5-TP)	0.25	ug/l	<0.12	U

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-13A		MW-BCP-13B	
			Sample Date	1/13/2021	9/22/2021	
			Screen Interval (ft bgs)	5.5 - 7.5	5.5 - 7.5	
			Screened Formation	RII	RII	
TEL VOCs (SVW6260)						
Benzene	1	ug/l	370	J	1700	
Ethylbenzene	5	ug/l	21	J	26	J
Styrene	5	ug/l	24	J	33	J
Toluene	5	ug/l	250	J	420	J
m,p-Xylene	5	ug/l	210	J	220	J
O-Xylene [1,2-Dimethylbenzene]	5	ug/l	81	J	100	J
TEL SVOCs (SVW62700)						
2,4-Dimethylphenol	50	ug/l	95		1200	
Acenaphthene	20	ug/l	21		42	J
Anthracene	50	ug/l	17		190	
Benzo(a)Anthracene	0.002	ug/l	2.1	J	130	
Benzo(b)Fluoranthene	0.002	ug/l	<1.2	U	100	
Benzo(k)Fluoranthene	0.002	ug/l	<1.3	U	37	J
Biphenyl (Dibenzyl)	5	ug/l	68		120	
Chrysene	0.002	ug/l	3.3	J	110	
Fluoranthene	50	ug/l	13		360	
Fluorene	50	ug/l	110		340	
Indeno(1,2,3-CD)Pyrene	0.002	ug/l	<1.0	U	60	J
Naphthalene	10	ug/l	9300	D	14000	D
Phenanthrene	50	ug/l	92		700	
Phenol	1	ug/l	11		660	
Pyrene	50	ug/l	8	J	270	
TAL Metals (SVW6300)						
Arsenic	25	ug/l	<5.5	U	22.1	
Chromium, Total	50	ug/l	<0.59	U	7.2	J
Iron	300	ug/l	40200		76000	J
Lead	25	ug/l	<2.1	U	25.5	J
Manganese	300	ug/l	1890		2600	
Sodium	20,000	ug/l	38800		32000	
Mercury (SVW6420)						
Mercury	0.7	ug/l	0.001	J	5.4	
Cyanide (SVW6120/REIADA-01)						
Cyanide	0.20	mg/l	0.176	J	3.99	
PCBs (SVW6320)						
PCB 1248 (Aroclor 1248)	0.09	ug/l	1		<0.50	U
Herbicides (SVW6151A)						
Alachlor (2,4,5-TP)	0.25	ug/l	0.33	J	<0.12	U



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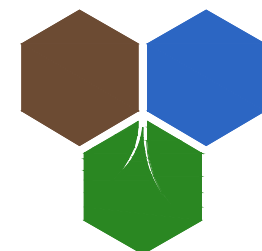


FIGURE 4 - 30

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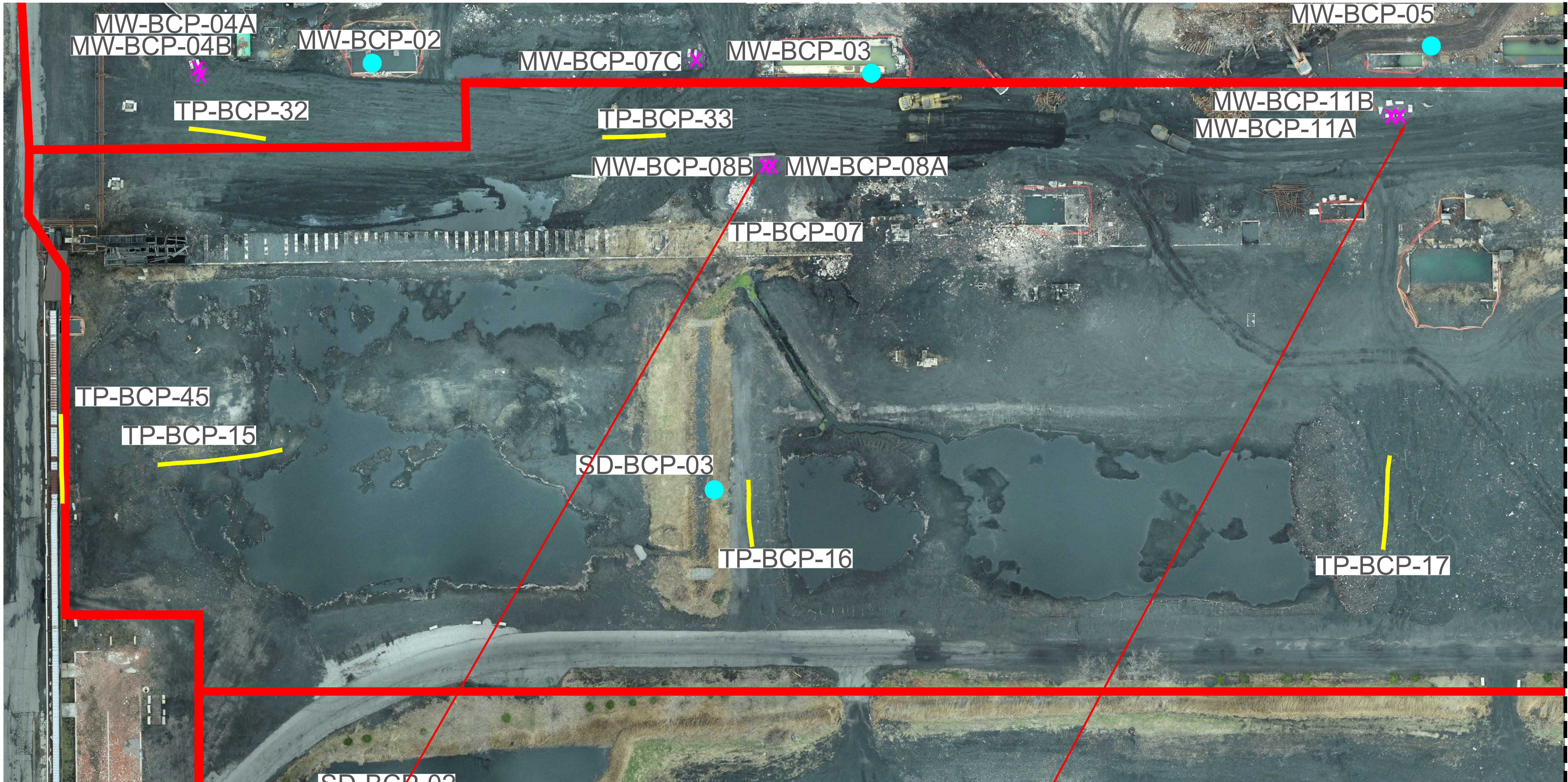
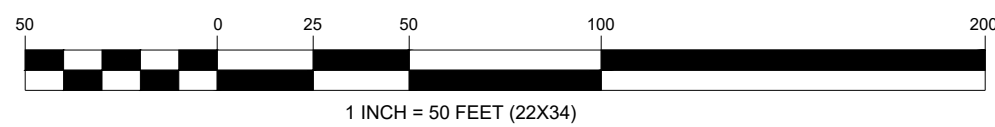
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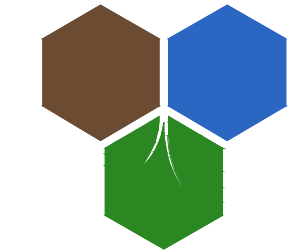
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Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-08B	
				MW-BCP-08B	
				1/12/2021	
	Screen Interval (ft bgs):			15 - 25	
		Screened Formation:		Upper Clay	
TAL Metals (SW6010)					
Arsenic	25	ug/l	<5.5	U	16
Barium	1,000	ug/l	85.1		486
Beryllium	3	ug/l	<0.13	U	2.7
Chromium, Total	50	ug/l	2.6	J	86.7
Copper	200	ug/l	<3.9	U	62.4
Iron	300	ug/l	157		84000
Lead	25	ug/l	<2.1	U	93.1
Magnesium	35,000	ug/l	85500		194000
Manganese	300	ug/l	117		1810
Nickel	100	ug/l	<2.6	U	56.8
Selenium	10	ug/l	<6.4	U	<6.4
Sodium	20,000	ug/l	120000		77100
Zinc	2,000	ug/l	<5.4	U	199
Cyanide (SW9012B / KELADA-01)					
Cyanide	0.20	mg/l	0.0104		<0.20

Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-11B		MW-8 CP-11B
				Sample Date		9/23/2021
	Screen Interval (ft bgs):			15 - 25	15 - 25	
	Screened Formations:			Upper Clay	Upper Clay	
TAL Metals (SW6010)						
Arsenic	25	ug/l	<5.5	U	82.3	
Barium	1,000	ug/l	225		2040	
Beryllium	3	ug/l	<0.13	U	13.2	
Chromium, Total	50	ug/l	0.7	J	462	
Copper	200	ug/l	<3.9	U	398	
Iron	300	ug/l	910		444000	
Lead	25	ug/l	<2.1	U	227	
Magnesium	35,000	ug/l	238000		461000	
Manganese	300	ug/l	750		6430	
Nickel	100	ug/l	<2.6	U	962	
Selenium	10	ug/l	<6.4	U	<6.4 U	
Sodium	20,000	ug/l	102000		87200	
Zinc	2,000	ug/l	<5.4	U	1110	
Cyanide (SW9012B / KELADA-01)						
Cyanide	0.20	mg/l	0.0258		<0.08 U	



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SUITE C
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CLAY ZONE GROUNDWATER DATA - A01 4 WEST
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FIGURE 4 - 31
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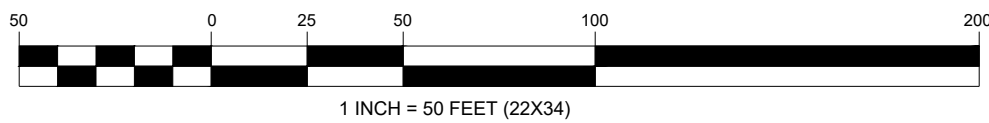
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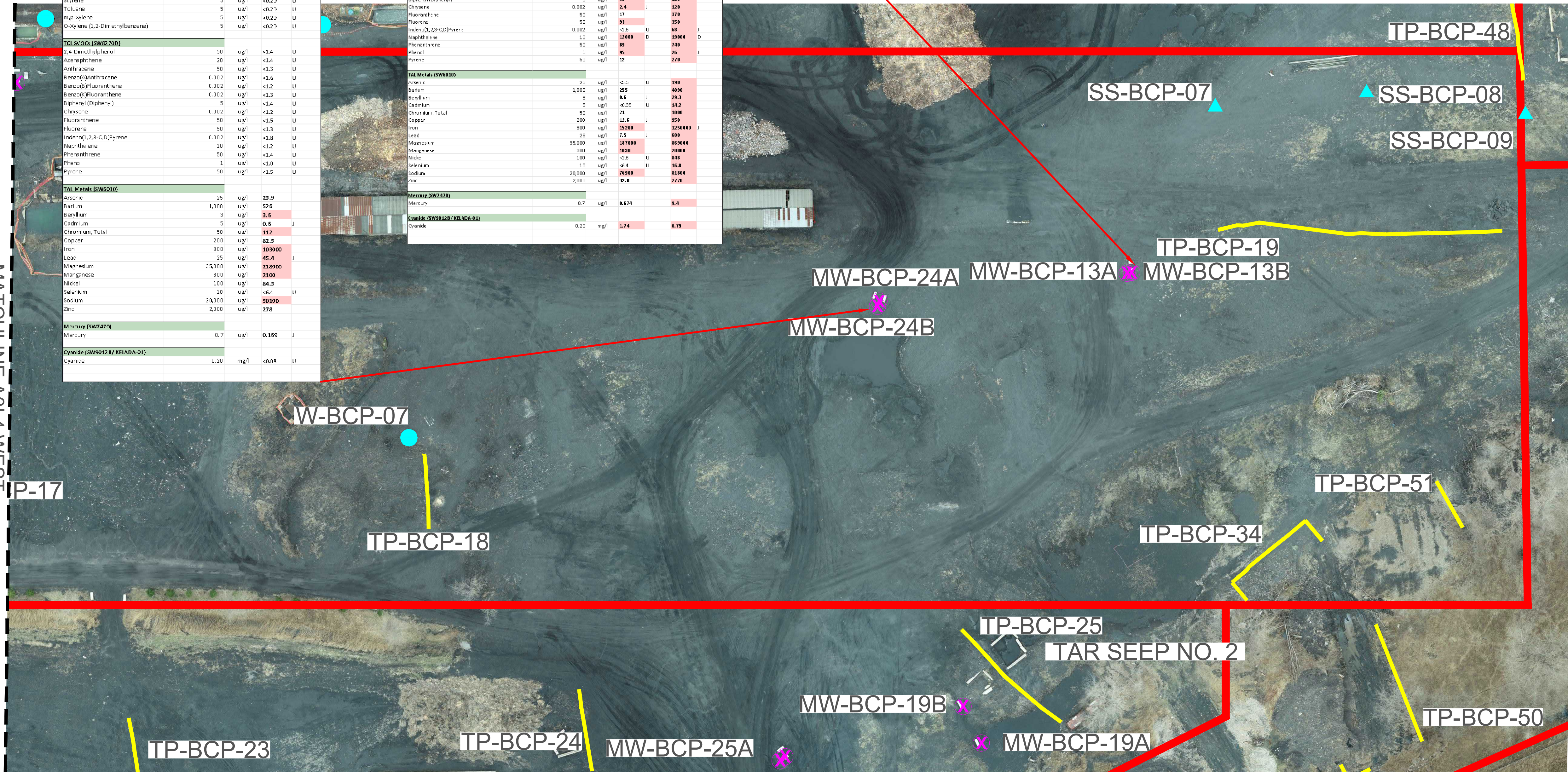
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Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	NW-BCP-24B		
			Sample Date	9/23/2021	
			Screen Interval (ft. bgs)	14 - 24	
			Screened Formation: Upper Clay		
TCL VOCs (SW6260C)					
Benzene		1	ug/l	<0.20	U
Ethylbenzene		5	ug/l	<0.20	U
Styrene		5	ug/l	<0.20	U
Toluene		5	ug/l	<0.20	U
m,p-Xylene		5	ug/l	<0.20	U
O-Xylene (1,2-Dimethylbenzene)		5	ug/l	<0.20	U
TCL SVOCs (SW6270D)					
1,2-Dimethylphenol		50	ug/l	<1.4	U
Acenaphthene		20	ug/l	<1.4	U
Anthracene		50	ug/l	<1.3	U
Benzo(a)Anthracene		0.002	ug/l	<1.6	U
Benzo(b)Fluoranthene		0.002	ug/l	<1.2	U
Benzo(k)Fluoranthene		0.002	ug/l	<1.3	U
Biphenyl (Diphenyl)		5	ug/l	<1.4	U
Chrysene		0.002	ug/l	<1.2	U
Fluoranthene		50	ug/l	<1.5	U
Fluorene		50	ug/l	<1.3	U
Indeno(1,2,3-CD)Pyrene		0.002	ug/l	<1.8	U
Naphthalene		10	ug/l	<1.2	U
Phenanthrene		50	ug/l	<1.4	U
Phenol		1	ug/l	<1.0	U
Pyrene		50	ug/l	<1.5	U
TAL Metals (SW5010)					
Arsenic		25	ug/l	23.9	
Barium		1,000	ug/l	525	
Beryllium		3	ug/l	3.5	
Cadmium		5	ug/l	0.5	J
Chromium, Total		50	ug/l	112	
Copper		200	ug/l	22.5	
Iron		300	ug/l	103000	
Lead		25	ug/l	45.4	J
Magnesium		35,000	ug/l	218000	
Manganese		300	ug/l	2100	
Nickel		100	ug/l	24.3	
Selenium		10	ug/l	<5.4	U
Sodium		20,000	ug/l	50300	
Zinc		2,000	ug/l	278	
Mercury (SW7470)					
Mercury		0.7	ug/l	0.159	J
Cyanide (SW5012B/ KSLADA-01)					
Cyanide		0.20	mg/l	<0.08	U

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-13B		MW-BCP-13B	
			Sample Date	5/13/2021	9/22/2021	
				Screen Interval (ft. bgs)	28 - 30	20 - 30
				Screened Formation	Upper Clay	Upper Clay
TCL VOCs (SW6260C)						
Benzene		1	ug/l	3380		338
Ethylbenzene		5	ug/l	78	J	37
Styrene		5	ug/l	58	J	46
Toluene		5	ug/l	378		288
m,p-Xylene		5	ug/l	358		168
O-Xylene (1,2-Dimethylbenzene)		5	ug/l	358		188
TCL SVOCs (SW6270D)						
1,2-Dimethylphenol		50	ug/l	528	J	94
Acenaphthene		20	ug/l	18		43
Anthracene		50	ug/l	28		238
Benzo(a)Anthracene		0.002	ug/l	3.6	J	110
Benzo(b)Fluoranthene		0.002	ug/l	2.7	J	188
Benzo(k)Fluoranthene		0.002	ug/l	<1.1	U	56
Biphenyl (Diphenyl)		5	ug/l	58		338
Chrysene		0.002	ug/l	2.4	J	328
Fluoranthene		50	ug/l	17		378
Fluorene		50	ug/l	53		358
Indeno(1,2,3-cd)Pyrene		0.002	ug/l	<1.5	U	68
Naphthalene		10	ug/l	124880	D	158880
Phenanthrene		50	ug/l	88		748
Phenol		1	ug/l	95		26
Pyrene		50	ug/l	12		278
TCL Metals (SW5010)						
Arsenic		25	ug/l	<5.5	U	198
Barium		1000	ug/l	255		4890
Beryllium		3	ug/l	8.6	J	29.3
Cadmium		5	ug/l	<0.35	U	34.2
Chromium, Total		50	ug/l	21		1880
Copper		200	ug/l	12.5	J	958
Iron		300	ug/l	352880		1258880
Lead		25	ug/l	7.5	J	688
Magnesium		35000	ug/l	1878880		650040
Manganese		300	ug/l	1838		28880
Nickel		100	ug/l	<5.8	U	888
Selenium		10	ug/l	<6.4	U	35.3
Sodium		20000	ug/l	753880		81880
Zinc		2000	ug/l	42.8		2780
Mercury (SW7470)						
Mercury		0.7	ug/l	8.624		5.3
Cyanide (SW5012B/KSLADA-01)						
Cyanide		0.20	mg/l	1.74		0.79



CLAY ZONE GROUNDWATER DATA - AOI 4 EAST
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TONAWANDA, NEW YORK 14150
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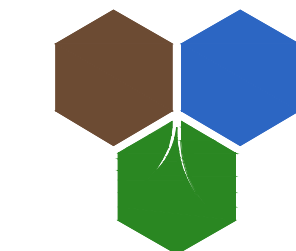


FIGURE 4 - 32

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Analytes	Part 375 SCOs		Units	TP-BCP-20	
	Commercial	Industrial			
	Sample Date:			11/9/2020	
	Sample Interval:			0 - 1 ft	
Formation:			Shallow Fill		
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	260000	D
Benzo(A)Pyrene	1,000	1,100	ug/kg	470000	D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	410000	D
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	150000	DJ
Chrysene	56,000	110,000	ug/kg	270000	D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	71000	DJ
Indeno(1, 2,3 -C,D)Pyrene	5,600	11,000	ug/kg	310000	D
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	3.7	

Analytes	Part 375 SCOs		Units	SD-BCP-02	
	Commercial	Industrial			
	Sample Date:			11/17/2020	
	Sample Interval:			Sediment	
	Formation:			Sediment Pond #002	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	670	
Benzo(A)Pyrene	1,000	1,100	ug/kg	1100	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	1100	
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	410	J
Chrysene	56,000	110,000	ug/kg	720	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	150	J
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	630	
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	5	

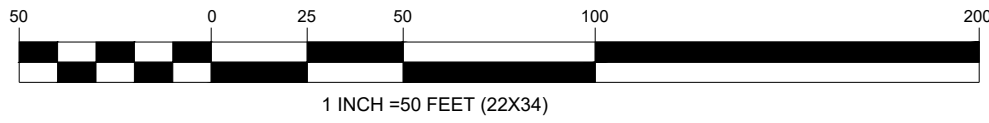
Analytes	Part 375 SCOs		Units	TP-BCP-22		TP-BCP-22		
	Commercial	Industrial						
	Sample Date:			11/16/2020		11/16/2020		
	Sample Interval:			0 to 1 ft		DUP (0 to 1 ft)		
Formation:			Shallow Fill		Shallow Fill			
TCL SVOCs (SW8270D)								
Benzo(A)Anthracene	5,600	11,000	ug/kg	5500	D	8600	D	
Benzo(A)Pyrene	1,000	1,100	ug/kg	7800	D	12000	D	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	7500	D	11000	D	
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	2600	D	4000	D	
Chrysene	56,000	110,000	ug/kg	5800		8300	D	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	1300	DJ	2000	D	
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	5300	D	8400	D	
TAL Metals (SW6010)								
Arsenic	16	16	mg/kg	6		5.3		



Analytes	Part 375 SCOs		Units	SD-BCP-04	
	Commercial	Industrial			
	Sample Date:			11/17/2020	11/17/2020
	Sample Interval:			Sediment	DUP (Sediment)
				Formation:	SW Basin
TCL SVOCs (SW8270D)					
Benzo(a)Anthracene	5,600	11,000	ug/kg	<130 U	<140 U
Benzo(a)Pyrene	1,000	1,100	ug/kg	<160 U	<170 U
Benzo(b)Fluoranthene	5,600	11,000	ug/kg	<150 U	<160 U
Dibenz(a,h)Anthracene	560	1,100	ug/kg	<130 U	<140 U
Indeno(1,2,3-c,d)Pyrene	5,600	11,000	ug/kg	<150 U	<160 U

Analytes	Part 375 SCOs		Units	TP-BCP-26	
	Commercial	Industrial			
	Sample Date:			11/9/2020	
	Sample Interval:			0 - 1 ft	
			Formation:	Shallow Fill	
TCL SVOCs (SW827 DD)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	17000	D
Benzo(A)Pyrene	1,000	1,100	ug/kg	24000	D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	24000	D
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	8800	D
Chrysene	56,000	110,000	ug/kg	16000	D
Dibenz(A,H)Anthra cene	560	1,100	ug/kg	4100	DJ
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	18000	D
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	5.9	

Analytes	Part 375 SCOs		Units	TP-BCP-27		TP-BCP-27	
	Commercial	Industrial					
	Sample Date:			11/16/2020		11/16/2020	
	Sample Interval:			0 to 1 ft		DUP (0 to 1 ft)	
		Formation:		Shallow Fill		Shallow Fill	
TCL SVOCs (SW8270D)							
Benzo(A)Anthracene	5,600	11,000	ug/kg	8900	D	8700	D
Benzo(A)Pyrene	1,000	1,100	ug/kg	14000	D	14000	D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	13000	D	14000	D
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	4500		4700	
Chrysene	56,000	110,000	ug/kg	10000	D	9400	D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	2400	D	2400	D
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	10000	D	10000	D
TAL Metals (SW6010)							
Arsenic	16	16	mg/kg	6.5		6.5	



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FILL SAMPLE DATA - A01 5 WEST
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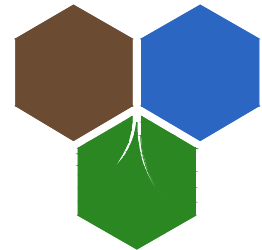


FIGURE 4 - 33

DRAWING NUMBER
A01 5 WEST

Analytes	Part 375 SCOs		Units	MW-BCP-25A		
	Commercial	Industrial				
	Sample Date:					6/22/2021
	Sample Interval:					0 - 1 ft
Formation:			Fill			
TCL SVOCs (SW8270D)						
Benzo(A)Anthracene	5,600	11,000	ug/kg	4500	J	
Benzo(A)Pyrene	1,000	1,100	ug/kg	5000	J	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	5500	J	
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	1800	J	
Chrysene	56,000	110,000	ug/kg	4900	J	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<1600	UJ	
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	3200	J	
TAL Metals (SW6010)						
Arsenic	16	16	mg/kg	4.5	J	

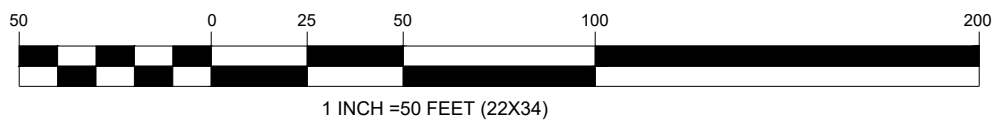
Analytes	Part 375 SCOs		Units	MW-BCP-19	
	Commercial	Industrial			
	Sample Date:			11/5/2020	
	Sample Interval:			0 - 1 ft	
	Formation:			Shallow Fill	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	25000	D
Benzo(A)Pyrene	1,000	1,100	ug/kg	32000	D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	34000	D
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	13000	D
Chrysene	56,000	110,000	ug/kg	27000	D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	4100	DI
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	19000	D
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	NS	

Analytes	Part 375 SCOs		Units	TP-BCP-25	
	Commercial	Industrial			
				Sample Date:	10/29/2020
				Sample Interval:	0 - 1 ft
			Formation:	Shallow Fill	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	7800	D
Benzo(A)Pyrene	1,000	1,100	ug/kg	8100	D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	10000	D
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	3300	D
Chrysene	56,000	110,000	ug/kg	8600	D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	1500	D
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	5400	D
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	5.6	J



Analytes	Part 375 SCOs		Units	TP-BCP-24		TP-BCP-24		
	Commercial	Industrial		Sample Date: 11/13/2020		11/13/2020		
	Sample Interval: 0 - 1 ft			DUP (0 - 1 ft)		DUP (0 - 1 ft)		
	Formation: Shallow Fill			Shallow Fill		Shallow Fill		
	TCL SVOCs (SW8270D)							
Benzo(A)Anthracene	5,600	11,000	ug/kg	7400	D	5400	D	
Benzo(A)Pyrene	1,000	1,100	ug/kg	8800	D	6000	D	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	10000	D	7100	D	
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	3400	D	2500	D	
Chrysene	56,000	110,000	ug/kg	7800	D	5300	D	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	1700	DI	1300	DI	
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	6300	D	4500	D	
TAL Metals (SW6010)								
Arsenic	16	16	mg/kg	16	J	40.3	J	

Analytes	Part 375 SCOs		Units	TP-BCP-44		TP-BCP-44	
	Commercial	Industrial		Sample Date: 11/13/2020		11/13/2020	
				Sample Interval: 0 - 1 ft		DUP (0 - 1 ft)	
				Formation: Shallow Fill		Shallow Fill	
TCL SVOCs (SW8270D)							
Benzo(A)Anthracene	5,600	11,000	ug/kg	10000	D	16000	D
Benzo(A)Pyrene	1,000	1,100	ug/kg	14000	D	19000	D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	15000	D	20000	D
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	5100	D	7400	D
Chrysene	56,000	110,000	ug/kg	11000	D	16000	D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	2500	D	3800	DI
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	10000	D	13000	D
TAL Metals (SW6010)							
Arsenic	16	16	mg/kg	7.3	J	4.4	J



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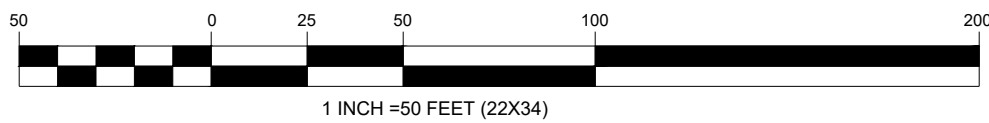
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FIGURE 4 - 34

DRAWING NUMBER

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Analytes	Part 375 SCOs		Units	TP-BCP-21	
	Commercial	Industrial			
	Sample Date:				
	Sample Interval:				
	Formation:				
TCL SVOCs (SW8270D)					
Benzo(A)Pyrene	1,000	1,100	ug/kg	<170	U
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	3.4	
Copper	270	10,000	mg/kg	12.1	
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.071	
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	<0.21	U

Analytes	Part 375 SCOs		Units	TP-BCP-26	
	Commercial	Industrial			
	Sample Date:				
	Sample Interval:				
Formation:			Clay		
TCL SVOCs (SW8270D)					
Benzo(A)Pyrene	1,000	1,100	ug/kg	<180	U
TAL Metals (SW601D)					
Arsenic	16	16	mg/kg	4.6	
Copper	270	10,000	mg/kg	20.8	
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.025	U
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	<0.19	U



CLAY SAMPLE DATA - A01 5 WEST
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FIGURE 4 - 35

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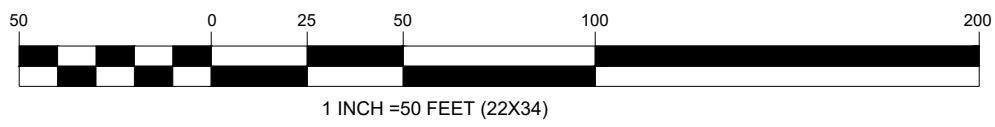
Analytes	Part 375 SCOs		Units	MW-BCP-20		MW-BCP-20		MW-BCP-20	
	Commercial	Industrial		Sample Date:		Sample Date:		Sample Date:	
				Sample Interval:		Sample Interval:		Sample Interval:	
				Formation:		Formation:		Formation:	
				Clay		Clay		Clay	
TCL SVOCs (SW8270D)									
Benzo(A)Pyrene	1,000	1,100	ug/kg	<150	U	<160	U	<150	U
TAL Metals (SW6010)									
Arsenic	16	16	mg/kg	2.7		5.9		3.1	
Copper	270	10,000	mg/kg	21		23.8		20.1	
Mercury (SW7471)									
Mercury	2.8	5.7	mg/kg	NS		NS		NS	
Total Cyanide (SW9012B)									
Cyanide	27	10,000	mg/kg	<0.17	UJ	<0.18	UJ	<0.17	UJ

Analytes	Part 375 SCOs		Units	MW-BCP-19		MW-BCP-19		MW-BCP-19	
	Commercial	Industrial		Sample Date:		11/5/2020		11/5/2020	
				Sample Interval:		6.8 - 8 ft		10 - 11 ft	
				Formation:		Clay		Clay	
TCL SVOCs (SW8270D)									
Benzo(A)Pyrene	1,000	1,100	ug/kg	1600	D	290	J	<160	U
TAL Metals (SW6010)									
Arsenic	16	16	mg/kg	NS		NS		NS	
Copper	270	10,000	mg/kg	NS		NS		NS	
Mercury (SW7471)									
Mercury	2.8	5.7	mg/kg	0.035	J	<0.015	U	<0.015	U
Total Cyanide (SW9012B)									
Cyanide	27	10,000	mg/kg	0.83		0.29		<0.17	U

Analytes	Part 375 SCDs		Units	TP-BCP-25		TP-BCP-25	
	Commercial	Industrial		Sample Date:		10/25/2020	
				Sample Interval:		5 - 5.2 ft	
				Formation:		Clay	
TCL SVOCs (SW8270D)							
Benzo(A)Pyrene	1,000	1,100	ug/kg	2300		<150	U
TAL Metals (SW6010)							
Arsenic	16	16	mg/kg	32.7	J	3.9	J
Copper	270	10,000	mg/kg	499	J	21.5	J
Mercury (SW7471)							
Mercury	2.8	5.7	mg/kg	5.1		<0.015	U
Total Cyanide (SW9012B)							
Cyanide	27	10,000	mg/kg	1160		9.77	



Analytes	Part 375 SCOs		Units	TP-BCP-44	
	Commercial	Industrial		Sample Date: 11/13/2020	
				Sample Interval: 66 - 66.5 in	
				Formation: Clay	
TCL SVOCs (SW8270D)					
Benzo(A)Pyrene	1,000	1,100	ug/kg	<170	U
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	3.5	J
Copper	270	10,000	mg/kg	22.4	
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.018	J
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	<0.17	U



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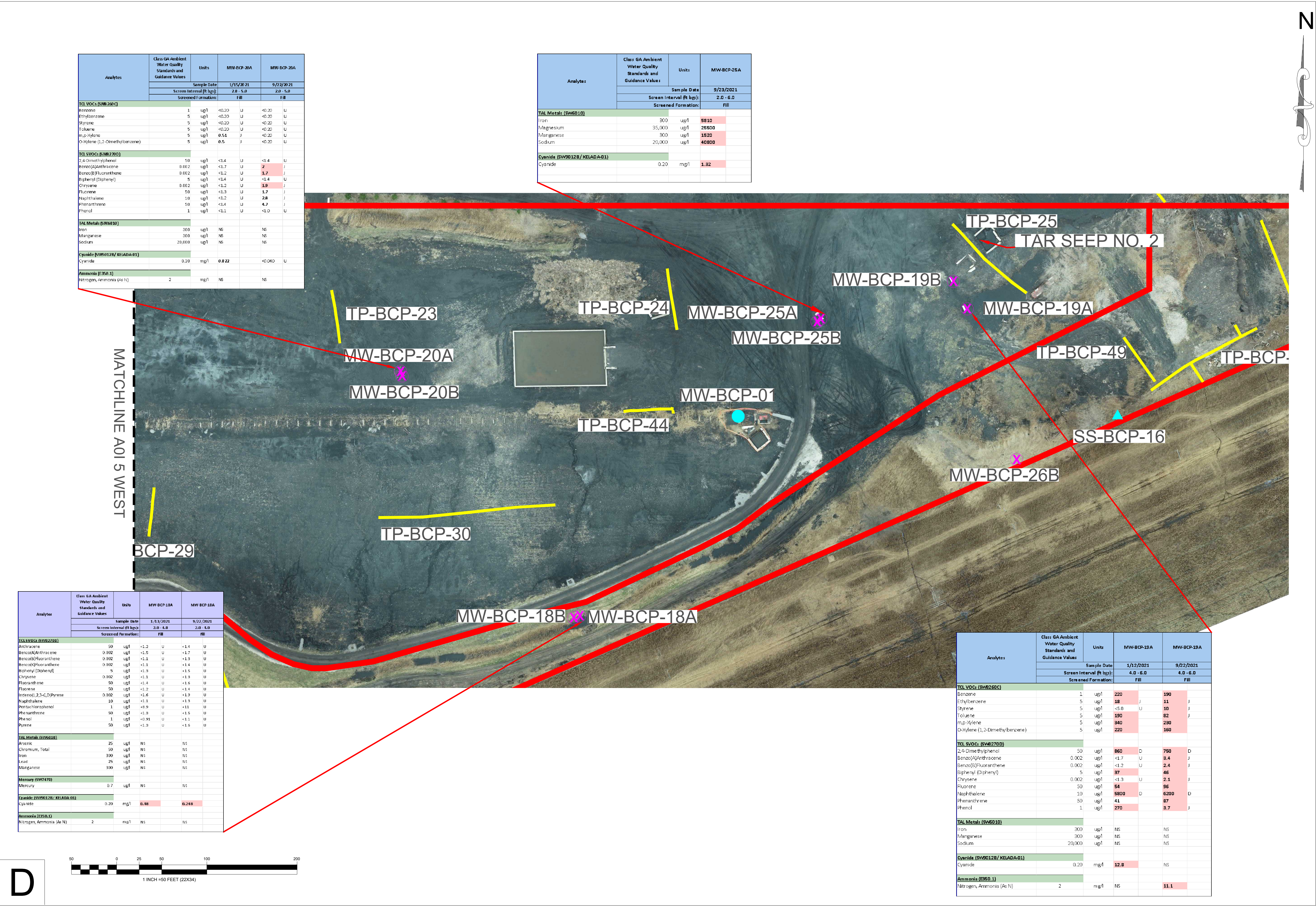
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FIGURE 4 - 36
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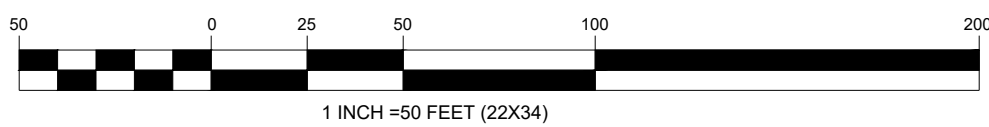


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FIGURE 4 - 37
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Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-19B		MW-BCP-19B	
			Sample Date		5/22/2021	
			Screen Interval (ft bgs):		18 - 20	
			Screened Formation:		Upper Clay	
TCL VOCs (SW8260)						
Benzene	1	ug/l	28	J	<10	U
Chloroform	7	ug/l	12	J	<10	U
Ethylbenzene	5	ug/l	14	J	<10	U
Toluene	5	ug/l	28	J	21	J
m,p-Xylene	5	ug/l	150	J	70	J
O-Xylene (1,2-Dimethylbenzene)	5	ug/l	150	J	46	J
TCL SVOCs (SW8270)						
Benzo(a)Anthracene	0.002	ug/l	15	J	9.4	J
Benzo(b)Fluoranthene	0.002	ug/l	13	J	8.3	J
Benzo(k)Fluoranthene	0.002	ug/l	5	J	3.5	J
Biphenyl (Diphenyl)	5	ug/l	33	J	42	J
Chrysene	0.002	ug/l	13	J	10	J
Fluoranthene	50	ug/l	56	J	45	J
Fluorene	50	ug/l	87	J	110	J
Indeno(1,2,3-CD)Pyrene	0.002	ug/l	6.2	J	4.3	J
Naphthalene	10	ug/l	1400	D	5700	D
Phenanthrene	50	ug/l	130	J	140	J
Phenol	1	ug/l	7.2	J	<1.0	U
TAL Metals (SW610)						
Chromium, Total	50	ug/l	NS		NS	
Iron	300	ug/l	NS		NS	
Magnesium	35,000	ug/l	NS		NS	
Manganese	300	ug/l	NS		NS	
Sodium	20,000	ug/l	NS		NS	
Cyanide (SW9128/KBADA-01)						
Cyanide	0.20	mg/l	6.20			
Ammonia (ES50.1)						
Nitrogen, Ammonia (as N)	2	mg/l	NS		2.49	

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-25B		
			Sample Date	9/23/2021	
			Screen Interval (ft bgs):	14 - 24	
			Screened Formation:	Upper Clay	
TCL VOCs (SW8260C)					
Benzene		1	ug/l	<0.20	U
Chloroform		7	ug/l	<0.24	U
Ethylbenzene		5	ug/l	<0.20	U
Toluene		5	ug/l	<0.20	U
m,p-Xylene		5	ug/l	<0.20	U
O-Xylene (1,2-Dimethylbenzene)		5	ug/l	<0.20	U
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	0.002	ug/l		<1.6	U
Benzo(B)Fluoranthene	0.002	ug/l		<1.2	U
Benzo(K)Fluoranthene	0.002	ug/l		<1.3	U
Biphenyl (Diphenyl)	5	ug/l		<1.4	U
Chrysene	0.002	ug/l		<1.2	U
Fluoranthene	50	ug/l		<1.5	U
Fluorene	50	ug/l		<1.3	U
Indeno[1,2,3-C,9]Pyrene	0.002	ug/l		<1.8	U
Naphthalene	10	ug/l		<1.2	U
Phenanthrene	50	ug/l		<1.4	U
Phenol	1	ug/l		<1.0	U
TAL Metals (SW610)					
Chromium, Total	50	ug/l		51.7	
Iron	300	ug/l		37300	
Magnesium	35,000	ug/l		244000	
Manganese	300	ug/l		866	
Sodium	20,000	ug/l		72700	
Cyanide (SW9128/KBADA-01)					
Cyanide	0.20	mg/l		0.208	
Ammonia (ES50.1)					
Nitrogen, Ammonia (As N)	2	mg/l	NS		

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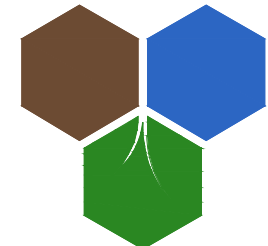


FIGURE 4 - 38

DRAWING NUMBER
AOI 5 EAST

CLAY ZONE GROUNDWATER DATA - AOI 5 EAST
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Analytes	Part 375 SCOs		Units	SD-BCP-04		SD-BCP-04	
	Commercial	Industrial					
	Sample Date:			11/17/2020	11/17/2020		
	Sample Interval:			Sediment	DUP (Sediment)		
	Formation:			SW Basin	SW Basin		
TCL SVOCs (SW8270D)							
Benzo(A)Anthracene	5,600	11,000	ug/kg	<130	U	<140	U
Benzo(A)Pyrene	1,000	1,100	ug/kg	<160	U	<170	U
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	<150	U	<160	U
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<130	U	<140	U
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	<150	U	<160	U

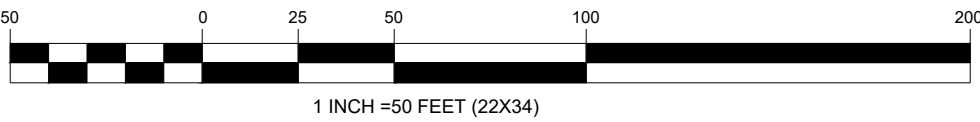
Analytes	Part 375 SCOs		Units	SD-BCP-01	
	Commercial	Industrial			
	Sample Date:			11/17/2020	
	Sample Interval:			Sediment	
	Formation:			Sediment Pond #001	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	880	
Benzo(A)Pyrene	1,000	1,100	ug/kg	1300	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	1400	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	190	J
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	750	



Analytes	Part 375 SCOs		Units	MW-BCP-16		MW-BCP-16		MW-BCP-16	
	Commercial	Industrial							
	Sample Date:			11/3/2020		11/3/2020		11/3/2020	
	Sample Interval:			0 - 2 in		2 - 6 in		0.5 - 1 ft	
	Formation:			Surface Soil		Surface Soil		Shallow Fill	
TCL SVOCs (SW8270D)									
Benzo(A)Anthracene	5,600	11,000	ug/kg	450	J	NS		14000	
Benzo(A)Pyrene	1,000	1,100	ug/kg	720		NS		19000	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	790		NS		20000	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<140	U	NS		2400	J
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	480		NS		11000	

Analytes	Part 375 SCOs		Units	TP-BCP-41		
	Commercial	Industrial				
	Sample Date:			10/28/2020		
	Sample Interval:			0 to 1 ft		
	Formation:			Shallow Fill		
TCL SVOCs (SW8270D)						
Benzo(A)Anthracene	5,600	11,000	ug/kg	9700	D	
Benzo(A)Pyrene	1,000	1,100	ug/kg	14000	D	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	15000	D	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	2300	D	
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	8300	D	

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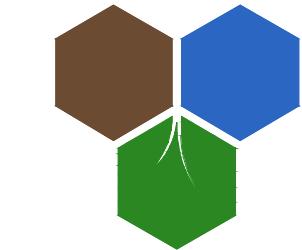
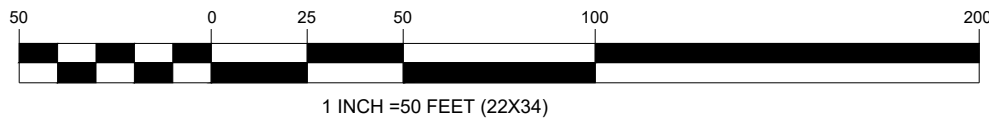


FIGURE 4 - 39



Analytes	Part 375 SCOs		Units	MW-BCP-16	MW-BCP-16	MW-BCP-16	MW-BCP-16				
	Commercial	Industrial									
	Sample Date:							11/3/2020	11/3/2020	11/3/2020	11/3/2020
	Sample Interval:							4.5 - 6 ft	7.5 - 9 ft	20 - 21 ft	30 - 31 ft
	Formation:							Clay	Clay	Clay	Clay
TCL SVOCs (SW8270D)											
Benzo(A)Anthracene	5,600	11,000	ug/kg	<130	U	<140	U	<130	U		
Benzo(A)Pyrene	1,000	1,100	ug/kg	<160	U	<170	U	<160	U		
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	<150	U	<160	U	<150	U		
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<130	U	<140	U	<130	U		
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	<150	U	<160	U	<150	U		

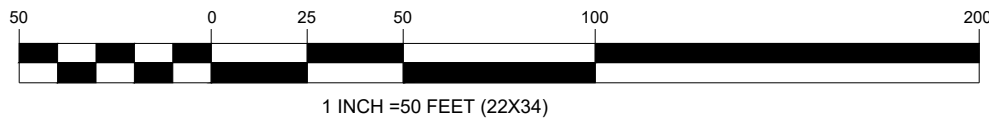


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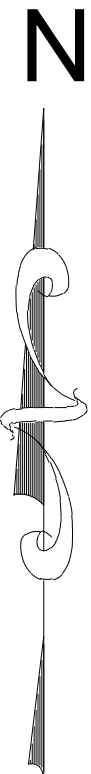
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FIGURE 4 - 40

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Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-16A	
			Sample Date	1/12/2021
			Screen Interval (ft bgs):	2.5 - 4.5
			9/21/2021	2.5 - 4.5
			Fill	Fill
TAL Metals (SW6010)				
Iron	300	ug/l	177	1130
Magnesium	35,000	ug/l	206000	360000
Manganese	300	ug/l	1650	2030
Sodium	20,000	ug/l	909000	1570000
Cyanide (SW9012B / KELADA-01)				
Cyanide	0.20	mg/l	0.0053	<0.040



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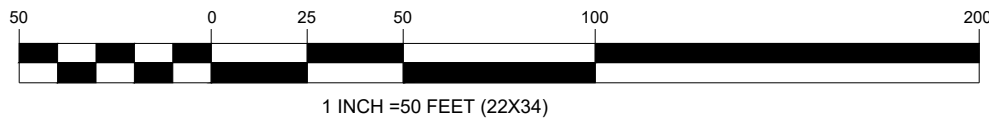
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FIGURE 4 - 41

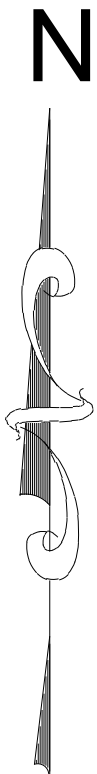
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Analytes	Class GA Ambient Water Quality Standards and Guidance Values		Units	MW-BCP-16B	MW-BCP-16B	MW-BCP-16C	MW-BCP-16C
	Sample Date			1/12/2021	9/21/2021	1/12/2021	9/21/2021
	Screen Interval (ft bgs):			10 - 20	10 - 20	29 - 39	29 - 39
	Screened Formation:			Upper Clay	Upper Clay	Lower Clay	Lower Clay
TAL Metals (SW6010)							
Iron	300	ug/l	164	3050		399	1480
Magnesium	35,000	ug/l	438000	461000		325000	318000
Sodium	20,000	ug/l	122000	139000		108000	132000



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INVENTUM ENGINEERING
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170
(703) 722-6049
www.InventumEng.com

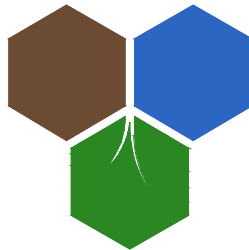


FIGURE 4 - 42

DRAWING NUMBER
AOI 6

DRAWING BY	RB
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Analytes	Part 375 SCOs		Units	MW-BCP-17		MW-BCP-17		MW-BCP-17	
	Commercial	Industrial							
	Sample Date:			10/30/2020		11/2/2020		11/2/2020	
	Sample Interval:			0 - 2 in		2 - 6 in		0.5 - 1 ft	
Formation:			Surface Soil		Surface Soil		Shallow Fill		
TCL SVOCs (SW8270D)									
Benzo(A)Anthracene	5,600	11,000	ug/kg	6300	D	NS		6400	
Benzo(A)Pyrene	1,000	1,100	ug/kg	9700	D	NS		10000	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	10000	D	NS		11000	
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	3700	D	NS		3800	
Chrysene	56,000	110,000	ug/kg	7100	D	NS		7500	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	1400	DI	NS		1500	
Fluoranthene	500,000	1,000,000	ug/kg	9500	D	NS		8500	
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	6000	D	NS		6200	
Pyrene	500,000	1,000,000	ug/kg	9100	D	NS		8500	
TAL Metals (SW6010)									
Arsenic	16	16	mg/kg	9.7	J	NS		11.6	J
Barium	400	10,000	mg/kg	91.6		NS		92.8	
Cadmium	9.3	60	mg/kg	0.511	J	NS		0.28	J
Copper	270	10,000	mg/kg	18.4	J	NS		18.1	J
Mercury (SW7471)									
Mercury	2.8	5.7	mg/kg	0.046		NS		0.025	J
Total Cyanide (SW9012B)									
Cyanide	27	10,000	mg/kg	NS		NS		<0.17	U

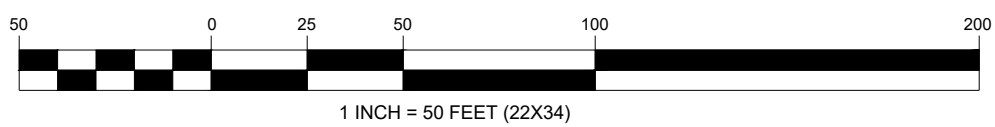
Analytes	Part 375 SCOs		Units	TP-BCP-31	
	Commercial	Industrial		Sample Date:	10/29/2020
				Sample Interval:	0 - 1 ft
				Formation:	Shallow Fill
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	9200	D
Benzo(A)Pyrene	1,000	1,100	ug/kg	17000	D
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	16000	D
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	6200	
Chrysene	56,000	110,000	ug/kg	11000	D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	2500	D
Fluoranthene	500,000	1,000,000	ug/kg	14000	D
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	11000	D
Pyrene	500,000	1,000,000	ug/kg	13000	D
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	11.7	J
Barium	400	10,000	mg/kg	96.4	
Cadmium	9.3	60	mg/kg	0.301	J
Copper	270	10,000	mg/kg	42.1	J
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.04	
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	0.3	J



Analytes	Part 375 SCOs		Units	TP-BCP-52-28	
	Commercial	Industrial		Sample Date: 7/29/2021	
				Sample Interval: 28-inches	
				Formation: Shallow Fill	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	200000	
Benzo(A)Pyrene	1,000	1,100	ug/kg	240000	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	240000	
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	99000	
Chrysene	56,000	110,000	ug/kg	200000	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	30000	J
Fluoranthene	500,000	1,000,000	ug/kg	510000	
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	130000	
Pyrene	500,000	1,000,000	ug/kg	380000	
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	18	
Barium	400	10,000	mg/kg	85	
Cadmium	9.3	60	mg/kg	0.548	J
Copper	270	10,000	mg/kg	18.8	
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.054	
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	0.67	

Analytes	Part 375 SCOs		Units	SS-BCP-17		SS-BCP-17		SS-BCP-17	
	Commercial	Industrial							
	Sample Date:			11/13/2020		11/13/2020		11/13/2020	
	Sample Interval:			0 - 2 in		2 - 6 in		0.5 - 2 ft	
	Formation:			Surface Soil		Surface Soil		Shallow Fill	
TCL SVOCs (SW8270D)									
Benzo(A)Anthracene	5,600	11,000	ug/kg	2600	D	NS		32000	
Benzo(A)Pyrene	1,000	1,100	ug/kg	3100	D	NS		36000	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	3700		NS		43000	
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	1300	D	NS		18000	
Chrysene	56,000	110,000	ug/kg	3000	D	NS		43000	D
Dibenz(A,H)Anthracene	560	1,100	ug/kg	540	DI	NS		6500	DI
Fluoranthene	500,000	1,000,000	ug/kg	5700	D	NS		120000	D
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	2100	D	NS		29000	D
Pyrene	500,000	1,000,000	ug/kg	4800	D	NS		85000	
TAL Metals (SW6010)									
Arsenic	16	16	mg/kg	12		NS		7.8	
Barium	400	10,000	mg/kg	91.7		NS		97.8	
Cadmium	9.3	60	mg/kg	<0.279	U	NS		<0.264	U
Copper	270	10,000	mg/kg	21.2		NS		14.8	
Mercury (SW7471)									
Mercury	2.8	5.7	mg/kg	0.046		NS		0.042	
Total Cyanide (SW9012B)									
Cyanide	27	10,000	mg/kg	NS		NS		0.21	J

Analytes	Part 375 SCOs		Units	MW-BCP-18	
	Commercial	Industrial		Sample Date: 11/4/2020	
				Sample Interval: 0 - 1 ft	
				Formation: Shallow Fill	
TCL SVOCs (SW8270D)					
Benzo(A)Anthracene	5,600	11,000	ug/kg	31000	
Benzo(A)Pyrene	1,000	1,100	ug/kg	43000	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	45000	
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	15000	
Chrysene	56,000	110,000	ug/kg	32000	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	6400	J
Fluoranthene	500,000	1,000,000	ug/kg	62000	
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	28000	
Pyrene	500,000	1,000,000	ug/kg	51000	
TAL Metals (SW6010)					
Arsenic	16	16	mg/kg	NS	
Barium	400	10,000	mg/kg	NS	
Cadmium	9.3	60	mg/kg	NS	
Copper	270	10,000	mg/kg	NS	
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.258	J
Total Cyanide (SW9012B)					
Cyanide	27	10,000	mg/kg	2.15	



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MATCHLINE A01 7 EAST

FILL SAMPLE DATA - A01 7 WEST
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TONAWANDA, NEW YORK 14150
BCP SITE No. C915353



FIGURE 4 - 43

DRAWING NUMBER

A01 7 WEST

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MATCHLINE
AOI 7 WEST

Analytes	Part 375 SCOs		Units	TP-BCP-49-28		TP-BCP-49-45		TP-BCP-49-41	
	Commercial	Industrial		Sample Date:	7/28/2021	7/27/2021	7/28/2021		
	Sample Interval:			28-inches	40-inches	75-inches			
	Formation:			Shallow Fill	Shallow Fill	Shallow Fill			
TEL SVOCs (SW82700)									
Benz(A)Anthracene	5,600	11,000	ug/kg	32000	D	6700	<2	U	
Benz(A)Pyrene	1,000	1,100	ug/kg	170000	D	7000	<20	U	
Benz(B)Fluoranthene	5,600	11,000	ug/kg	50000	J	35000	<7	U	
Benz(K)Fluoranthene	56,000	110,000	ug/kg	50,000	D	3500	<7	U	
Chrysene	56,000	110,000	ug/kg	50,000	D	3500	<7	U	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	21000	D	9000	<7	U	
Fluoranthene	500,000	1,000,000	ug/kg	32000	D	6000	<10	U	
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	32000	J	6000	<10	U	
Pyrene	500,000	1,000,000	ug/kg	32000	D	6000	<10	U	
TEL Metals (SW81010)									
Arsenic	16	16	mg/kg	11.9	J	7.2	1.5		
Barium	400	10,000	mg/kg	129	J	188	155		
Cadmium	9.3	60	mg/kg	0.540	J	0.405	0.249	J	
Copper	270	10,000	mg/kg	43.7	J	179	10.8		
Mercury (SW7471)									
Mercury	2.8	5.7	mg/kg	0.227	J	16.8	0.83	J	
Total Cyanide (SW9120)									
Cyanide	27	10,000	mg/kg	6.46	J	508	4.4		

Analytes	Part 375 SCOs		Units	TP-BCP-50-35		TP-BCP-50-51	
	Commercial	Industrial		Sample Date:	7/28/2021	7/28/2021	7/28/2021
	Sample Interval:			32-48 in	54 in	54 in	
	Formation:			Shallow Fill	Shallow Fill	Shallow Fill	
TEL SVOCs (SW8270)							
Benz(A)Anthracene	5,600	11,000	ug/kg	NI	NI	NI	
Benz(A)Pyrene	1,000	1,100	ug/kg	NI	NI	NI	
Benz(B)Fluoranthene	5,600	11,000	ug/kg	NI	NI	NI	
Benz(K)Fluoranthene	56,000	110,000	ug/kg	NI	NI	NI	
Chrysene	56,000	110,000	ug/kg	NI	NI	NI	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	NI	NI	NI	
Fluoranthene	500,000	1,000,000	ug/kg	NI	NI	NI	
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	NI	NI	NI	
Pyrene	500,000	1,000,000	ug/kg	NI	NI	NI	
TEL Metals (SW8101)							
Arsenic	16	16	mg/kg	6.2	J	NI	
Barium	400	10,000	mg/kg	94.1	NI	NI	
Cadmium	9.3	60	mg/kg	0.482	J	NI	
Copper	270	10,000	mg/kg	76.3	J	NI	
Mercury (SW7471)							
Mercury	2.8	5.7	mg/kg	3.2	NI	NI	
Total Cyanide (SW9121)							
Cyanide	27	10,000	mg/kg	88.1	378	365	

Analytes	Part 375 SCOs		Units	TP-BCP-50-35		TP-BCP-50-51	
	Commercial	Industrial		Sample Date:	7/28/2021	7/28/2021	7/28/2021
				Sample Interval:	35-inches	51-inches	51-inches
				Formation:	Shallow Fill	Shallow Fill	Shallow Fill
TEL SVOCs (SW82700)							
Benz(a)Anthracene	5,600	11,000	ug/kg	16000	J	49000	D
Benz(a)Pyrene	1,000	1,100	ug/kg	20000	J	47000	D
Benz(b)Fluoranthene	5,600	11,000	ug/kg	20000	J	51000	D
Benz(k)Fluoranthene	56,000	110,000	ug/kg	40000	J	10000	D
Chrysene	56,000	110,000	ug/kg	10000	J	44000	D
Dibenz(a,h)Anthracene	560	1,100	ug/kg	3900	J	6300	D
Fluoranthene	500,000	1,000,000	ug/kg	20000	J	110000	D
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	36000	J	29000	J
Pyrene	500,000	1,000,000	ug/kg	20000	J	83000	D
TEL Metals (SW81010)							
Arsenic	16	16	mg/kg	10.6	J	29.2	J
Barium	400	10,000	mg/kg	168	J	108	J
Cadmium	9.3	60	mg/kg	0.626	J	1.5	J
Copper	270	10,000	mg/kg	56.4	J	319	J
Mercury (SW7471)							
Mercury	2.8	5.7	mg/kg	1.8	J	6.4	J
Total Cyanide (SW9120)							
Cyanide	27	10,000	mg/kg	83	J	123	J

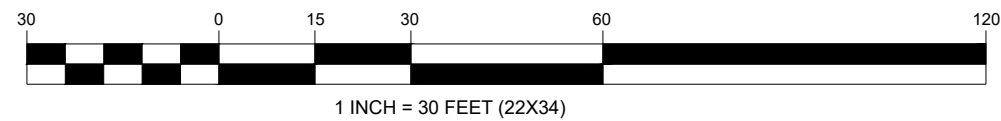
Analytes	Part 375 SCOs		Units	TP-BCP-30		TP-BCP-30	
	Commercial	Industrial		Sample Date: 11/3/2020	Sample Interval: 0 - 1 ft	DUP (0 - 1 ft)	
	Formative:						Shallow Fill
TEL SVOCs (SW82700)							
Benz(a)Anthracene	5,600	11,000	ug/kg	31000		23000	D
Benz(a)Pyrene	1,000	1,100	ug/kg	44000		33000	D
Benz(b)Fluoranthene	5,600	11,000	ug/kg	47000		35000	D
Benz(k)Fluoranthene	56,000	110,000	ug/kg	15000		12000	D
Chrysene	56,000	110,000	ug/kg	36000		25000	D
Dibenz(a,h)Anthracene	560	1,100	ug/kg	6800	J	5300	D
Fluoranthene	500,000	1,000,000	ug/kg	61000		45000	D
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	31000		25000	D
Pyrene	500,000	1,000,000	ug/kg	54000		41000	D
TEL Metals (SW81010)							
Arsenic	16	16	mg/kg	48.6		39.8	J
Barium	400	10,000	mg/kg	122		134	J
Cadmium	9.3	60	mg/kg	1.9		1.8	J
Copper	270	10,000	mg/kg	178		121	J
Mercury (SW7471)							
Mercury	2.8	5.7	mg/kg	1.1	J	0.963	J
Total Cyanide (SW9120)							
Cyanide	27	10,000	mg/kg	1.31		3.28	J

Analytes	Part 375 SCOs		Units	SS-BCP-16		SS-BCP-15		SS-BCP-14	
	Commercial	Industrial		Sample Date:	11/3/2020	11/3/2020	11/3/2020		
	Sample Interval:			0 - 2 ft	2 - 6 in	2 - 6 in	0.5 - 2 ft		
	Formation:			Surface Soil	Surface Soil	Surface Soil	Shallow Fill		
TEL SVOCs (SW82700)									
Benz(A)Anthracene	5,600	11,000	ug/kg	200000	D	NS	30000	D	
Benz(A)Pyrene	1,000	1,100	ug/kg	35000	D	NS	1900		
Benz(B)Fluoranthene	5,600	11,000	ug/kg	24000	D	NS	4400		
Benz(K)Fluoranthene	56,000	110,000	ug/kg	12000	D	NS	28000		
Chrysene	56,000	110,000	ug/kg	26000	D	NS	3000		
Dibenz(A,H)Anthracene	560	1,100	ug/kg	2800	D	NS	500		
Fluoranthene	500,000	1,000,000	ug/kg	27000	D	NS	92000	D	
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	28000	D	NS	40000	D	
Pyrene	500,000	1,000,000	ug/kg	28000	D	NS	36000	D	
TEL Metals (SW81010)									
Arsenic	16	16	mg/kg	5.6	NS	NS	7.1		
Barium	400	10,000	mg/kg	89	NS	NS	36.3		
Cadmium	9.3	60	mg/kg	0.46	J	NS	6.25		
Copper	270	10,000	mg/kg	48.4	NS	NS	40.1		
Mercury (SW7471)									
Mercury	2.8	5.7	mg/kg	0.446	NS	NS	0.238		
Total Cyanide (SW9120)									
Cyanide	27	10,000	mg/kg	NS	NS	NS	2.15		

Analytes	Part 375 SCOs		Units	SD-BCP-05	
	Commercial	Industrial		Sample Date:	11/12/2020
				Sample Interval:	Sediment
				Formation:	Suspect Wetland
TEL SVOCs (SW82700)					
Benzo(a)Anthracene	5,600	11,000	ug/kg	<20	U
Benzo(a)Pyrene	1,000	1,100	ug/kg	<400	U
Benzo(b)Fluoranthene	5,600	11,000	ug/kg	<370	U
Benzo(k)Fluoranthene	56,000	110,000	ug/kg	<400	U
Chrysene	56,000	110,000	ug/kg	<400	U
Dibenz(a,h)Anthracene	560	1,100	ug/kg	<430	U
Fluoranthene	500,000	1,000,000	ug/kg	<400	U
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	<370	U
Pyrene	500,000	1,000,000	ug/kg	<430	U
TEL Metals (SW81010)					
Arsenic	16	16	mg/kg	21.3	
Barium	400	10,000	mg/kg	54.8	
Cadmium	9.3	60	mg/kg	11.5	
Copper	270	10,000	mg/kg	48.9	
Mercury (SW7471)					
Mercury	2.8	5.7	mg/kg	0.199	
Total Cyanide (SW9120)					
Cyanide	27	10,000	mg/kg	6.33	

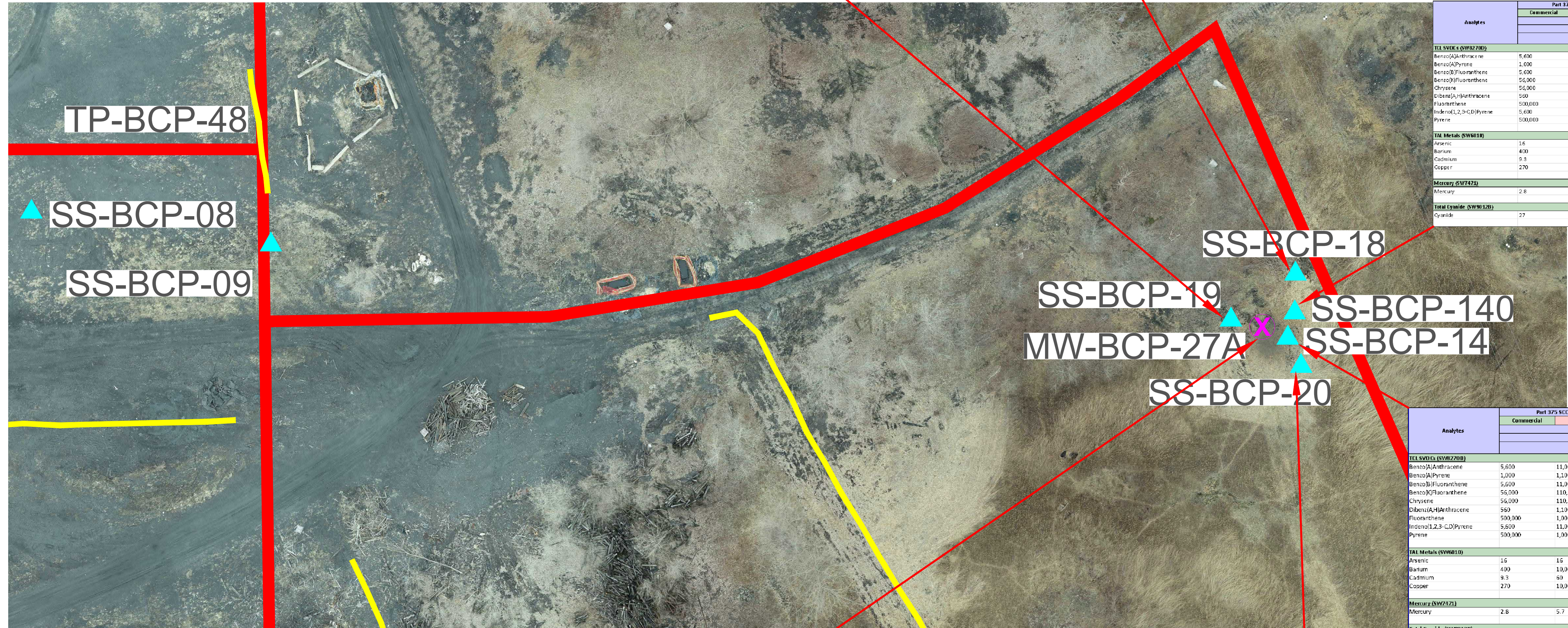
Part 375 SCOs		Units		SS-BCP-19		SS-BCP-18		SS-BCP-17	
Commercial	Industrial	Sample Date:		11/12/2020		11/12/2020		11/12/2020	
Sample Interval:		0 - 2 ft		2 - 6 in		2 - 6 in		0.5 - 2 ft	
Formation:		Surface Soil		Surface Soil		Surface Soil		Shallow Fill	
TEL SVOCs (SW82700)									
Benz(A)Anthracene	5,600	11,000	ug/kg	1800	NS	NS	2400		
Benz(B)Anthracene	1,000	2,100	ug/kg	1900	NS	NS	3600		
Benz(A)Pyrene	1,000	1,100	ug/kg	2100	NS	NS	4300		
Benzo(B)Fluoranthene	56,000	12,100	ug/kg	680	NS	NS	1000		
Benzo(E)Fluoranthene	10,000	10,000	ug/kg	1000	NS	NS	1000		
Benzo(K)Fluoranthene	560	1,100	ug/kg	<100	NS	NS	510		
Benzo(G,H)Fluoranthene	500,000	1,000,000	ug/kg	1800	NS	NS	4000		
Benzo(A)Fluoranthene	5,140	10,000	ug/kg	1200	NS	NS	2100		
Benzo(A)Perylene	500,000	1,000,000	ug/kg	1700	NS	NS	3600		
TEOH SVOCs (SW82700)									
1,2,3,4-Dibenz(1,2,3-c,d)pyrene	16	16	mg/kg	24.6	NS	NS	16.7		
1,2,3,4-Dibenz(1,2,3-c,d)fluoranthene	400	10,000	mg/kg	24.6	NS	NS	11.3		
1,2,3,4-Dibenz(1,2,3-c,d)anthracene	9.3	49	mg/kg	15	NS	NS	6.782		
1,2,3,4-Dibenz(1,2,3-c,d)fluoranthene	2.7	10,000	mg/kg	16.4	NS	NS	26.5		
TEOH PAHs (SW82700)									
2,8-Dibenz(1,2,3-c,d)pyrene	2.8	5.7	mg/kg	6.227	NS	NS	6.14		
TEOH PCBs (SW82700)									
2,2',4,4'-Tetrachlorobiphenyl	27	10,000	mg/kg	NS	NS	NS	21.8		

D



Analytes	Part 375 SCOs		Units	MW-BCP-27A
	Commercial	Industrial		
	Sample Date: 6/24/2021			
	Sample Interval: 0 - 1 ft			
	Formation: Fill			
TCL SVOCs (SW8270D)				
Benzo(A)Anthracene	5,600	11,000	ug/kg	17000
Benzo(A)Pyrene	1,000	1,100	ug/kg	23000
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	29000
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	10000
Chrysene	56,000	110,000	ug/kg	19000
Dibenz(A,H)Anthracene	560	1,100	ug/kg	4200 J
Fluoranthene	500,000	1,000,000	ug/kg	32000
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	19000
Pyrene	500,000	1,000,000	ug/kg	26000
TAL Metals (SW6010)				
Arsenic	16	16	mg/kg	5.6 J
Barium	400	10,000	mg/kg	184 J
Cadmium	9.3	60	mg/kg	0.304 J
Copper	270	10,000	mg/kg	136 J
Mercury (SW7471)				
Mercury	2.8	5.7	mg/kg	3.5
Total Cyanide (SW9012B)				
Cyanide	27	10,000	mg/g	5.53

Analytes	Part 375 SCOs		Units	SS-BCP-20	SS-BCP-20	
	Commercial	Industrial				
	Sample Date: 7/21/2021					7/21/2021
	Sample Interval: 0 - 2 ft					2 - 6 ft
	Formation: Surface Soil					Surface Soil
TCL SVOCs (SW8270D)						
Benzo(A)Anthracene	5,600	11,000	ug/kg	40000	97000	
Benzo(A)Pyrene	1,000	1,100	ug/kg	66000	130000	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	73000	140000	
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	26000	44000	
Chrysene	56,000	110,000	ug/kg	53000	110000	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	10000	17000 J	
Fluoranthene	500,000	1,000,000	ug/kg	100000	230000	
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	46000	86000	
Pyrene	500,000	1,000,000	ug/kg	83000	180000	
TAL Metals (SW6010)						
Arsenic	16	16	mg/kg	8.2 J	18.2 J	
Barium	400	10,000	mg/kg	76.7 J	81.8 J	
Cadmium	9.3	60	mg/kg	0.384 J	0.365 J	
Copper	270	10,000	mg/kg	43.4 J	58.6 J	
Mercury (SW7471)						
Mercury	2.8	5.7	mg/kg	0.22	0.216	
Total Cyanide (SW9012B)						
Cyanide	27	10,000	mg/kg	4.2	4.94	



Analytes	Part 375 SCOs		Units	SS-BCP-140	SS-BCP-140	SS-BCP-140
	Commercial	Industrial				
	Sample Date:			7/27/2021	7/27/2021	7/27/2021
	Sample Interval:			0 - 2 in	2 - 4 in	2 - 6 in
	Formation:			Surface Soil	Surface Soil	Surface Soil
TCL SVOCs (SW8270D)						
Benzo(a)Anthracene	5,600	11,000	ug/kg	21000	43000	15000
Benzo(a)Pyrene	1,000	1,100	ug/kg	26000	49000	38000
Benzo(b)Fluoranthene	5,600	11,000	ug/kg	29000	51000	21000
Benzo(k)Fluoranthene	56,000	110,000	ug/kg	11000	21000	7100
Chrysene	56,000	110,000	ug/kg	21000	42000	15000
Dibenz(a,h)Anthracene	560	1,100	ug/kg	3900 J	6200 J	2800
Fluoranthene	500,000	1,000,000	ug/kg	40000	120000	31000
Indeno(1,2,3-cd)Pyrene	5,600	11,000	ug/kg	38000	38000	13000
Pyrene	500,000	1,000,000	ug/kg	35000	63000	25000
TAL Metals (SW6010)						
Arsenic	16	16	mg/kg	11.1 J	11.2 J	8.9 J
Barium	400	10,000	mg/kg	121	282	129
Cadmium	9.3	60	mg/kg	0.592 J	0.561 J	0.419 J
Copper	270	10,000	mg/kg	66 J	55.8 J	51.6 J
Mercury (SW7471)						
Mercury	2.8	5.7	mg/kg	3.3	4	2.4
Total Cyanide (SW9012B)						
Cyanide	27	10,000	mg/kg	7.93	35.8	6.59

Analytes	Part 375 SCOs		Units	SS-BCP-11	SS-BCP-11	SS-BCP-11
	Commercial	Industrial				
	Sample Date: 11/17/2020					
	Sample Interval: 0 - 2 ft					
	Formation: Surface Soil					
Shallow Fill						
TCL SVOCs (SW8270D)						
Benzo(A)Anthracene	5,600	11,000	ug/kg	32000	D	NS
Benzo(A)Pyrene	1,000	1,100	ug/kg	42000	D	NS
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	48000	D	NS
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	16000	NS	17000
Chrysene	56,000	110,000	ug/kg	36000	D	35000
Dibenz(A,H)Anthracene	560	1,100	ug/kg	7500	NS	7000
Fluoranthene	500,000	1,000,000	ug/kg	56000	D	NS
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	30000	NS	32000
Pyrene	500,000	1,000,000	ug/kg	49000	D	60000
TAL Metals (SW6010)						
Arsenic	16	16	mg/kg	9.9	NS	37.8
Barium	400	10,000	mg/kg	89.6	NS	81.1
Cadmium	9.3	60	mg/kg	0.488	J	0.915
Copper	270	10,000	mg/kg	62.8	NS	49.4
Mercury (SW7471)						
Mercury	2.8	5.7	mg/kg	0.531	NS	191
Total Cyanide (SW9012B)						
Cyanide	27	10,000	mg/kg	NS	NS	294

Analytes	Part 375 SCOs		Units	SS-BCP-10		
	Commercial	Industrial		SS-BCP-10	SS-BCP-10	SS-BCP-10
	Sample Date: 7/21/2021			7/21/2021	7/27/2021	
	Sample Interval: 0 - 2 ft			2 - 4 ft	2 - 6 ft	
			Surface Soil	Surface Soil	Surface Soil	
TCL SVOCs (SW8270D)						
Benzo(A)Anthracene	5,600	11,000	ug/kg	26000	26000	17000
Benzo(A)Pyrene	1,000	1,100	ug/kg	26000	29000	25000
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	25000	34000	31000
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	11000	13000	18000
Chrysene	56,000	110,000	ug/kg	20000	21000	21000
Dibenz(A,H)Anthracene	560	1,100	ug/kg	3300	4000	4200
Fluoranthene	500,000	1,000,000	ug/kg	28000	53000	31000
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	28000	39000	39000
Pyrene	500,000	1,000,000	ug/kg	23000	35000	28000
TAL Metals (SW6010)						
Arsenic	16	16	mg/kg	11.5 J	17.2 J	13.1 J
Barium	400	10,000	mg/kg	187	152	181
Cadmium	9.3	60	mg/kg	0.585 J	0.455 J	0.518 J
Copper	270	10,000	mg/kg	92.1 J	147 J	98.4 J
Mercury (SW7471)						
Mercury	2.8	5.7	mg/kg	0.75	1.5	0.859
Total Cyanide (SW9012B)						
Cyanide	27	10,000	mg/kg	26.4	52.2	20.5

Analytes	Part 375 SVOCs		Units	SS-BCP-10	SS-BCP-10	SS-BCP-10	
	Commercial	Industrial		7/21/2021	7/21/2021	7/21/2021	
	Sample Date:			7/21/2021	7/21/2021	7/21/2021	
	Sample Interval:			0 - 2 ft	2 - 4 ft	2 - 6 ft	
	Formation:			Surface Soil	Surface Soil	Surface Soil	
	TCL SVOCs (SW8270D)						
Benzo(A)Anthracene	5,600	11,000	ug/kg	39000	120000	9300	
Benzo(A)Pyrene	1,000	1,100	ug/kg	46000	130000	13000	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	50000	130000	12000	
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	16000	49000	4300	
Chrysene	56,000	110,000	ug/kg	17000	130000	8400	
Dibenz(A,H)Anthracene	560	1,100	ug/kg	6000 J	17000 J	1700	
Fluoranthene	500,000	1,000,000	ug/kg	53000	130000	13000	
Indeno(1,2,3-CD)Pyrene	5,600	11,000	ug/kg	29000	64000	7200	
Pyrene	500,000	1,000,000	ug/kg	70000	200000	15000	
TAL Metals (SW6010)							
Arsenic	16	16	mg/kg	5.5 J	9.8 J	13.1 J	
Barium	400	10,000	mg/kg	132	157	141	
Cadmium	9.3	60	mg/kg	1.2	0.58 J	0.452 J	
Copper	270	10,000	mg/kg	75.3 J	98.3 J	95.8 J	
Mercury (SW7471)							
Mercury	2.8	5.7	mg/kg	2.5	0.759	1.2	
Total Cyanide (SW9012B)							
Cyanide	27	10,000	mg/kg	8.4	8.8	6.87	

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FILL SAMPLE DATA - AOI 7 EAST

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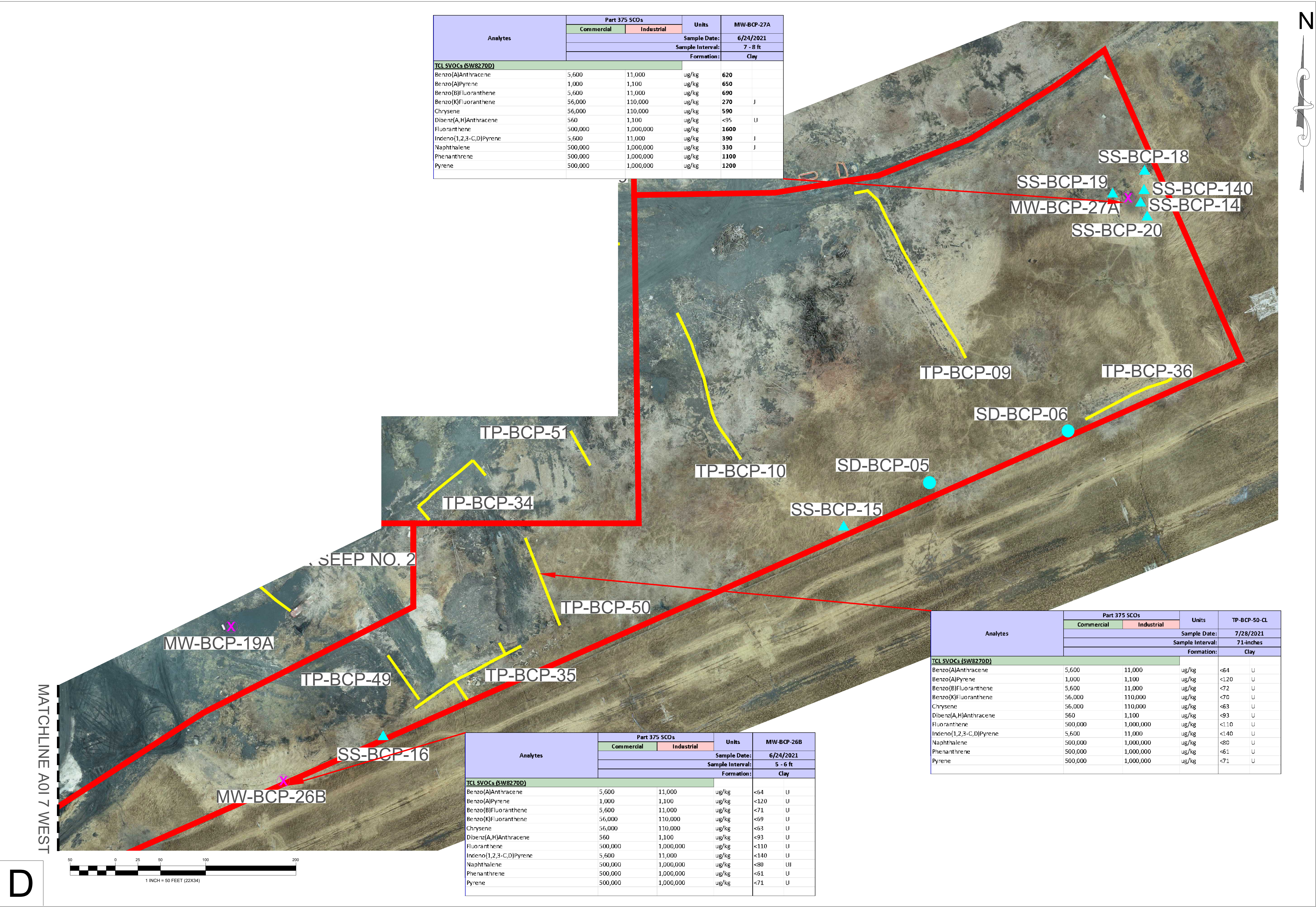
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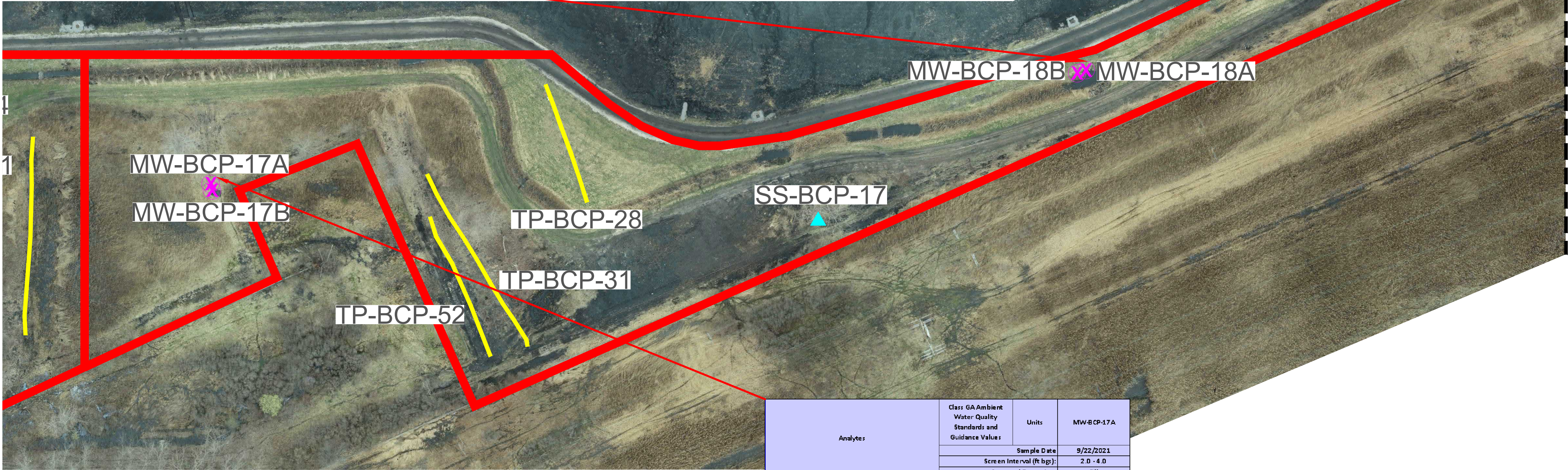
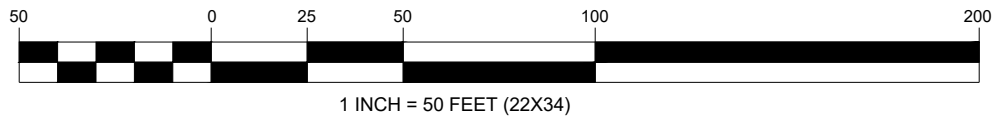
FIGURE 4 - 45

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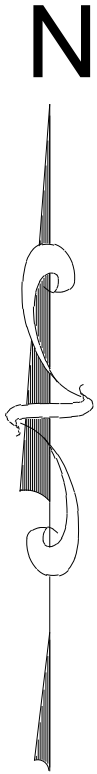
Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-18A		MW-BCP-18A	
			Sample Date		1/13/2021	9/22/2021
			Screen Interval (ft bgs):		2.0 - 4.0	2.0 - 4.0
			Screened Formation:		Fill	Fill
TCL SVOCs (SW8270D)						
Anthracene	50	ug/l	<1.2	U	<1.4	U
Benzo(A)Anthracene	0.002	ug/l	<1.5	U	<1.7	U
Benzo(B)Fluoranthene	0.002	ug/l	<1.1	U	<1.3	U
Benzo(K)Fluoranthene	0.002	ug/l	<1.1	U	<1.4	U
Biphenyl (Diphenyl)	5	ug/l	<1.3	U	<1.5	U
Chrysene	0.002	ug/l	<1.1	U	<1.3	U
Fluoranthene	50	ug/l	<1.4	U	<1.6	U
Fluorene	50	ug/l	<1.2	U	<1.4	U
Indeno(1,2,3-C,D)Pyrene	0.002	ug/l	<1.6	U	<1.9	U
Naphthalene	10	ug/l	<1.1	U	<1.3	U
Pentachlorophenol	1	ug/l	<6.9	U	<11	U
Phenanthrene	50	ug/l	<1.3	U	<1.5	U
Phenol	1	ug/l	<6.91	U	<1.1	U
Pyrene	50	ug/l	<1.3	U	<1.6	U
TAL Metals (SW610)						
Arsenic	25	ug/l	NS		NS	
Chromium, Total	50	ug/l	NS		NS	
Iron	300	ug/l	NS		NS	
Lead	25	ug/l	NS		NS	
Manganese	300	ug/l	NS		NS	
Mercury (SW7470)						
Mercury	0.7	ug/l	NS		NS	
Cyanide (SW9128 / KILADA-01)						
Cyanide	0.20	mg/l	0.48		0.248	
Ammonia (ESD-1)						
Nitrogen, Ammonia (As N)	2	mg/l	NS		NS	

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-17A	
			Sample Date	
			Screen Interval (ft bgs):	
			Screened Formation:	
			9/22/2021	
			2.0 - 4.0	
			Fill	
TCL SVOCs (SW8270D)				
Anthracene	50	ug/l	<1.9	U
Benzo(A)Anthracene	0.002	ug/l	<1.6	U
Benzo(B)Fluoranthene	0.002	ug/l	<1.2	U
Benzo(K)Fluoranthene	0.002	ug/l	<1.3	U
Biphenyl (Diphenyl)	5	ug/l	<1.4	U
Chrysene	0.002	ug/l	<1.2	U
Fluoranthene	50	ug/l	<1.5	U
Fluorene	50	ug/l	<1.3	U
Indeno(1,2,3-C,D)Pyrene	0.002	ug/l	<1.8	U
Naphthalene	10	ug/l	<1.2	U
Pentachlorophenol	1	ug/l	<9.7	U
Phenanthrene	50	ug/l	<1.4	U
Phenol	1	ug/l	<1.0	U
Pyrene	50	ug/l	<1.5	U
TAL Metals (SW610D)				
Arsenic	25	ug/l	NS	
Chromium, Total	50	ug/l	NS	
Iron	300	ug/l	NS	
Lead	25	ug/l	NS	
Manganese	300	ug/l	NS	
Mercury (SW7470)				
Mercury	0.7	ug/l	NS	
Cyanide (SW9128/ KGLADA-01)				
Cyanide	0.20	mg/l	<0.040	U
Ammonia (ESD-1)				
Nitrogen, Ammonia (As N)	2	mg/l	NS	

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FILL ZONE GROUNDWATER DATA - A01 7 WEST
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FIGURE 4 - 48
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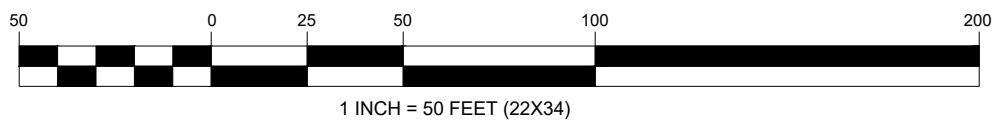
MATCHLINE A01 7 EAST

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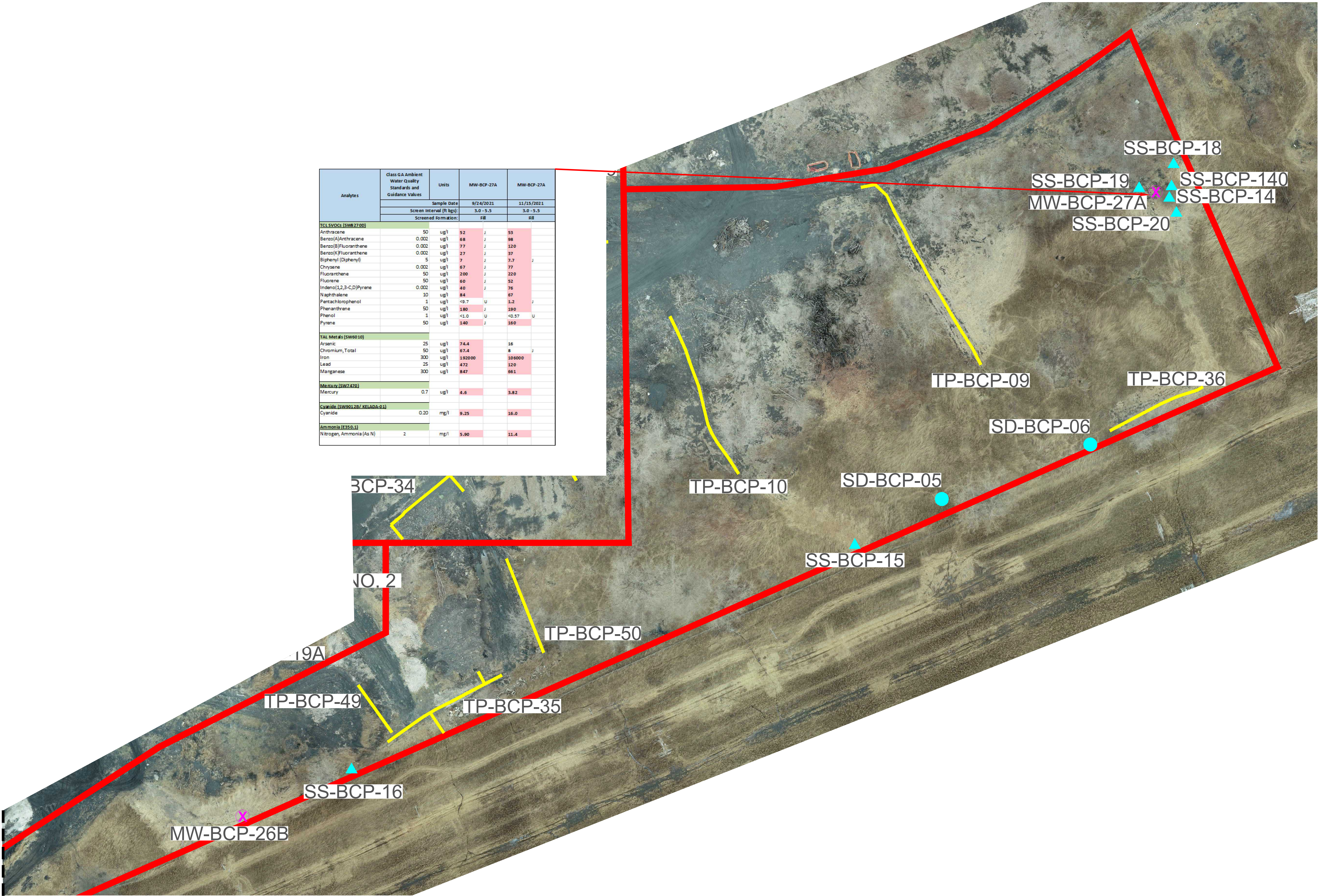
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Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-27A		MW-BCP-27A	
			Sample Date		11/15/2021	
			Screen Interval (ft bgs):		3.0 - 5.5	
			Screened Formation:		Fill	
TC15VOCs (SW827.00)						
Anthracene	50	ug/l	52	J	53	
Benzol(A)anthracene	0.002	ug/l	68	J	98	
Benzol(B)fluoranthene	0.002	ug/l	77	J	120	
Benzol(K)fluoranthene	0.002	ug/l	27	J	37	
Biphenyl (Diphenyl)	5	ug/l	7	J	7.7	J
Chrysene	0.002	ug/l	67	J	77	
Fluoranthene	50	ug/l	200	J	220	
Fluorene	50	ug/l	60	J	52	
Indeno(1,2,3-CD)Pyrene	0.002	ug/l	40	J	76	
Naphthalene	10	ug/l	84		67	
Pentachlorophenol	1	ug/l	<9.7	U	1.2	J
Phenanthrene	50	ug/l	180	J	190	
Phenol	1	ug/l	<1.0	U	<0.57	U
Pyrene	50	ug/l	140	J	160	
TAL Metals (SW6010)						
Arsenic	25	ug/l	74.4		16	
Chromium, Total	50	ug/l	67.4		8	J
Iron	300	ug/l	192000		106000	
Lead	25	ug/l	472		120	
Manganese	300	ug/l	847		661	
Mercury (SW7470)						
Mercury	0.7	ug/l	4.6		3.82	
Cyanide (SW9012B/ FELADA-01)						
Cyanide	0.20	mg/l	9.25		16.0	
Ammonia (ES6.1)						
Nitrogen, Ammonia (As N)	2	mg/l	5.90		11.4	



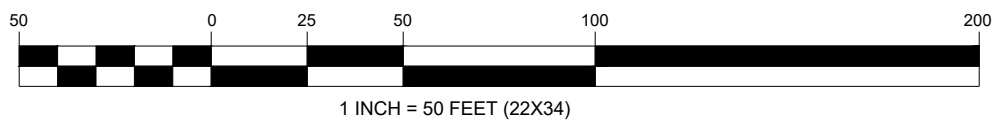
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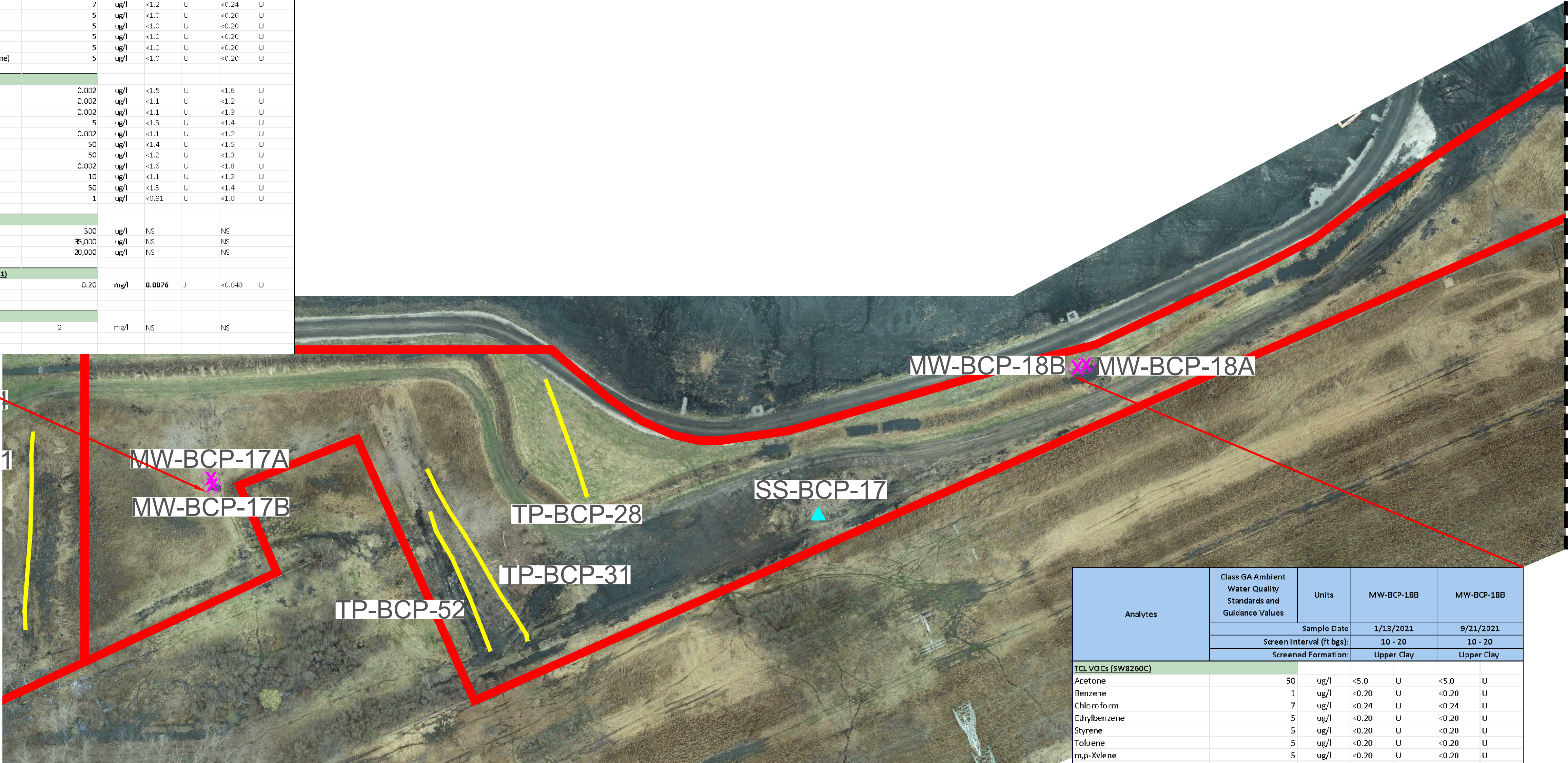
FIGURE 4 - 49
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Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-17B		MW-BCP-17B	
			Sample Date		1/13/2021	9/21/2021
			Screen Interval (ft bgs):		10 - 20	10 - 20
			Screened Formation:		Upper Clay	Upper Clay
TCL VOCs (SW8260C)						
Acetone	50	ug/l	11.0		<5.0	U
Benzene	1	ug/l	<1.0	U	<0.20	U
Chloroform	7	ug/l	<1.2	U	<0.24	U
Ethylbenzene	5	ug/l	<1.0	U	<0.20	U
Styrene	5	ug/l	<1.0	U	<0.20	U
Toluene	5	ug/l	<1.0	U	<0.20	U
m,p-Xylene	5	ug/l	<1.0	U	<0.20	U
O-Xylene (1,2-Dimethylbenzene)	5	ug/l	<1.0	U	<0.20	U
TCL SVOCs (SW8270D)						
Benzo(A)Anthracene	0.002	ug/l	<1.5	U	<1.6	U
Benzo(B)Fluoranthene	0.002	ug/l	<1.1	U	<1.2	U
Benzo(K)Fluoranthene	0.002	ug/l	<1.1	U	<1.3	U
Biphenyl (Diphenyl)	5	ug/l	<1.3	U	<1.4	U
Chrysene	0.002	ug/l	<1.1	U	<1.2	U
Fluoranthene	50	ug/l	<1.4	U	<1.5	U
Fluorene	50	ug/l	<1.2	U	<1.3	U
Indeno(1,2,3-C,D)Pyrene	0.002	ug/l	<1.6	U	<1.8	U
Naphthalene	10	ug/l	<1.1	U	<1.2	U
Phenanthrene	50	ug/l	<1.3	U	<1.4	U
Phenol	1	ug/l	<0.91	U	<1.0	U
TAL Metals (SW6010)						
Iron	300	ug/l	NS		NS	
Magnesium	35,000	ug/l	NS		NS	
Sodium	20,000	ug/l	NS		NS	
Cyanide (SW9012B/ KELADA-01)						
Cyanide	0.20	mg/l	0.0076	J	<0.040	U
Ammonia (E350.1)						
Nitrogen, Ammonia (As N)	2	mg/l	NS		NS	



Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-18B		MW-BCP-18B	
			Sample Date		1/13/2021	9/21/2021
			Screen Interval (ft bgs):		10 - 20	10 - 20
			Screened Formation:		Upper Clay	Upper Clay
TCL VOCs (SW8260C)						
Acetone	50	ug/l	<5.0	U	<5.0	U
Benzene	1	ug/l	<0.20	U	<0.20	U
Chloroform	7	ug/l	<0.24	U	<0.24	U
Ethylbenzene	5	ug/l	<0.20	U	<0.20	U
Styrene	5	ug/l	<0.20	U	<0.20	U
Toluene	5	ug/l	<0.20	U	<0.20	U
m,p-Xylene	5	ug/l	<0.20	U	<0.20	U
O-Xylene (1,2-Dimethylbenzene)	5	ug/l	<0.20	U	<0.20	U
TCL SVOCs (SW8270D)						
Benzo(A)Anthracene	0.002	ug/l	<1.5	U	<1.6	U
Benzo(B)Fluoranthene	0.002	ug/l	<1.1	U	<1.2	U
Benzo(K)Fluoranthene	0.002	ug/l	<1.1	U	<1.3	U
Biphenyl (Diphenyl)	5	ug/l	<1.3	U	<1.4	U
Chrysene	0.002	ug/l	<1.1	U	<1.2	U
Fluoranthene	50	ug/l	<1.4	U	<1.5	U
Fluorene	50	ug/l	<1.2	U	<1.3	U
Indeno(1,2,3-C,D)Pyrene	0.002	ug/l	<1.6	U	<1.8	U
Naphthalene	10	ug/l	<1.1	U	<1.2	U
Phenanthrene	50	ug/l	<1.3	U	<1.4	U
Phenol	1	ug/l	<0.91	U	<1.0	U
TAL Metals (SW6010)						
Iron	300	ug/l	NS		NS	
Magnesium	35,000	ug/l	NS		NS	
Sodium	20,000	ug/l	NS		NS	
Cyanide (SW9012B/ KELADA-01)						
Cyanide	0.20	mg/l	0.0305	J	0.046	J
Ammonia (E350.1)						
Nitrogen, Ammonia (As N)	2	mg/l	NS		NS	

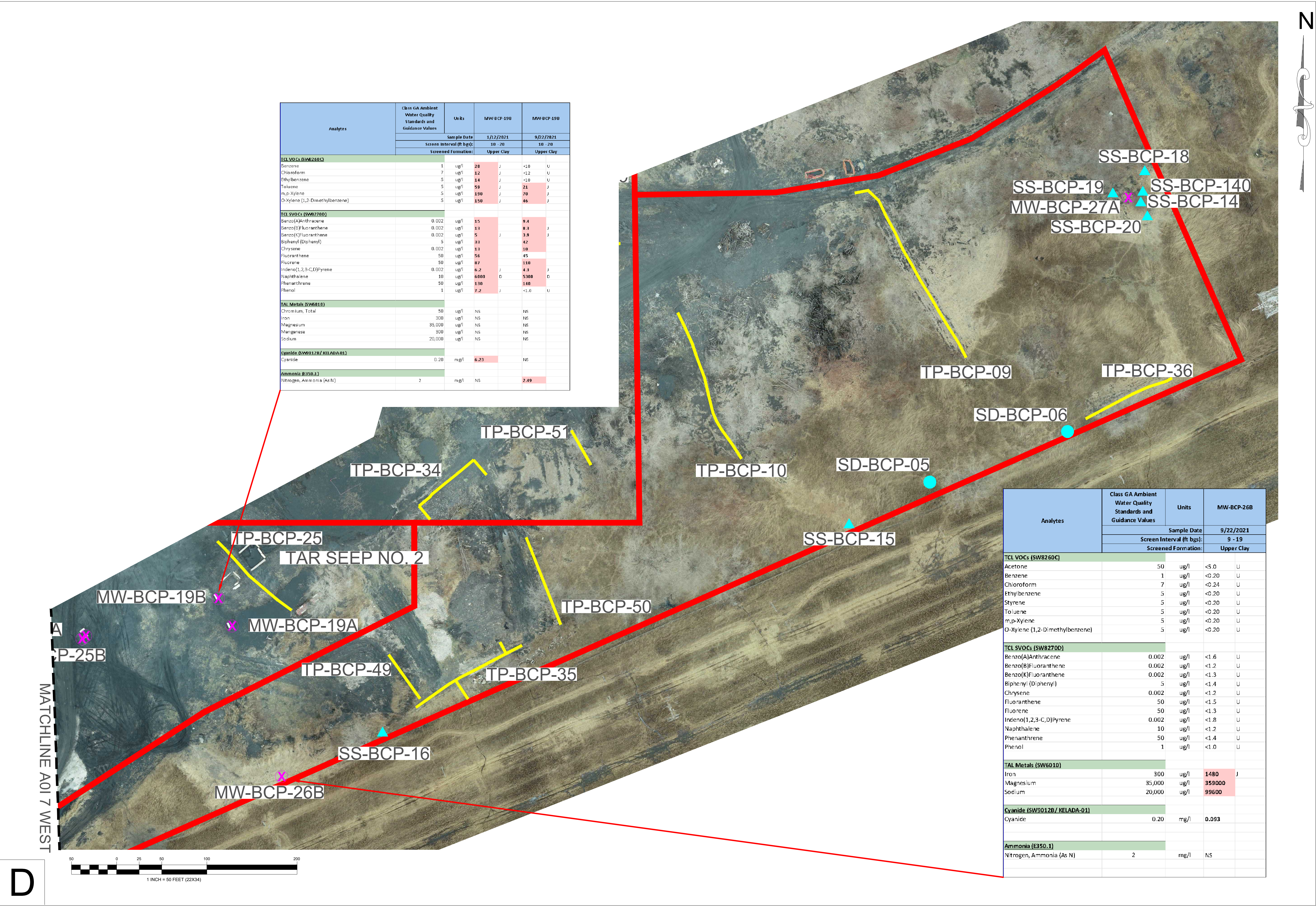


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FIGURE 4 - 50

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Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-19B		MW-BCP-19B	
			Sample Date		Sample Date	
			1/12/2021		9/22/2021	
			Screen Interval (ft bgs):		Screen Interval (ft bgs):	
			Screened Formation:		Upper Clay	
TCL VOCs (SW8260C)						
Benzene	1	ug/l	28	J	<1.0	U
Chloroform	7	ug/l	12	J	<12	U
Ethylbenzene	5	ug/l	14	J	<1.0	U
Toluene	5	ug/l	59	J	21	J
m,p-Xylene	5	ug/l	190	J	70	J
O-Xylene (1,2-Dimethylbenzene)	5	ug/l	150	J	46	J
TCL SVOCs (SW8270D)						
Benzo(A)Anthracene	0.002	ug/l	15	J	9.4	J
Benzo(B)Fluoranthene	0.002	ug/l	13	J	8.3	J
Benzo(K)Fluoranthene	0.002	ug/l	5	J	3.9	J
Biphenyl (Diphenyl)	5	ug/l	33	J	42	J
Chrysene	0.002	ug/l	13	J	10	J
Fluoranthene	50	ug/l	56	J	45	J
Fluorene	50	ug/l	87	J	110	J
Indeno(1,2,3-C,D)Pyrene	0.002	ug/l	6.2	J	4.3	J
Naphthalene	10	ug/l	6000	D	5300	D
Phenanthrene	50	ug/l	130	J	140	J
Phenol	1	ug/l	7.2	J	<1.0	U
TAL Metals (SW6010)						
Chromium, Total	50	ug/l	NS		NS	
Iron	300	ug/l	NS		NS	
Magnesium	35,000	ug/l	NS		NS	
Manganese	300	ug/l	NS		NS	
Sodium	20,000	ug/l	NS		NS	
Cyanide (SW9012B / KELADA-01)						
Cyanide	0.20	mg/l	6.23		NS	
Ammonia (E350.1)						
Nitrogen, Ammonia (As N)	2	mg/l	NS		2.49	

Analytes	Class GA Ambient Water Quality Standards and Guidance Values	Units	MW-BCP-26B	
			Sample Date	
			9/22/2021	
			Screen Interval (ft bgs):	
Screened Formation:		9 - 19		
		Upper Clay		
TCL VOCs (SW8260C)				
Acetone	50	ug/l	<5.0	U
Benzene	1	ug/l	<0.20	U
Chloroform	7	ug/l	<0.24	U
Ethylbenzene	5	ug/l	<0.20	U
Styrene	5	ug/l	<0.20	U
Toluene	5	ug/l	<0.20	U
m,p-Xylene	5	ug/l	<0.20	U
O-Xylene (1,2-Dimethylbenzene)	5	ug/l	<0.20	U
TCL SVOCs (SW8270D)				
Benzo(A)Anthracene	0.002	ug/l	<1.6	U
Benzo(B)Fluoranthene	0.002	ug/l	<1.2	U
Benzo(K)Fluoranthene	0.002	ug/l	<1.3	U
Biphenyl (Diphenyl)	5	ug/l	<1.4	U
Chrysene	0.002	ug/l	<1.2	U
Fluoranthene	50	ug/l	<1.5	U
Fluorene	50	ug/l	<1.3	U
Indeno(1,2,3-C,D)Pyrene	0.002	ug/l	<1.8	U
Naphthalene	10	ug/l	<1.2	U
Phenanthrene	50	ug/l	<1.4	U
Phenol	1	ug/l	<1.0	U
TAL Metals (SW6010)				
Iron	300	ug/l	1480	J
Magnesium	35,000	ug/l	359000	J
Sodium	20,000	ug/l	99600	J
Cyanide (SW9012B / KELADA-01)				
Cyanide	0.20	mg/l	0.093	J
Ammonia (E350.1)				
Nitrogen, Ammonia (As N)	2	mg/l	NS	J

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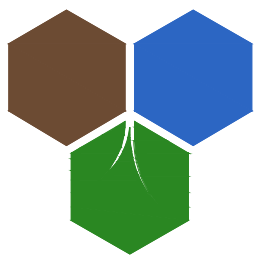
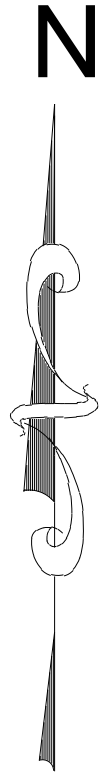
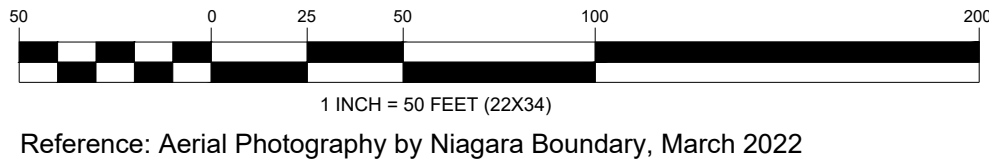
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FIGURE 4 - 51
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FIGURE 4 - 52

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PAHs and metals in groundwater

USEPA Stockpile -
PAHs and mercury

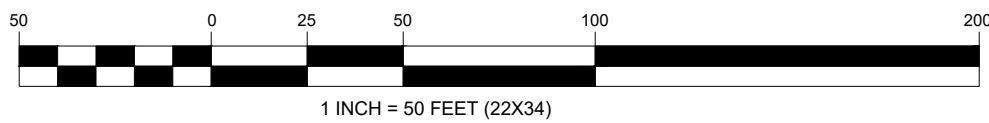
Cyanide impacted
shallow groundwater

Surface PAHs at former
Bethlehem Collector Main
location

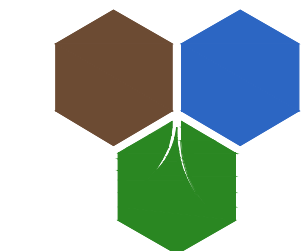
PAHs in shallow
groundwater

N

D



Reference: Aerial Photography by Niagara Boundary, March 2022



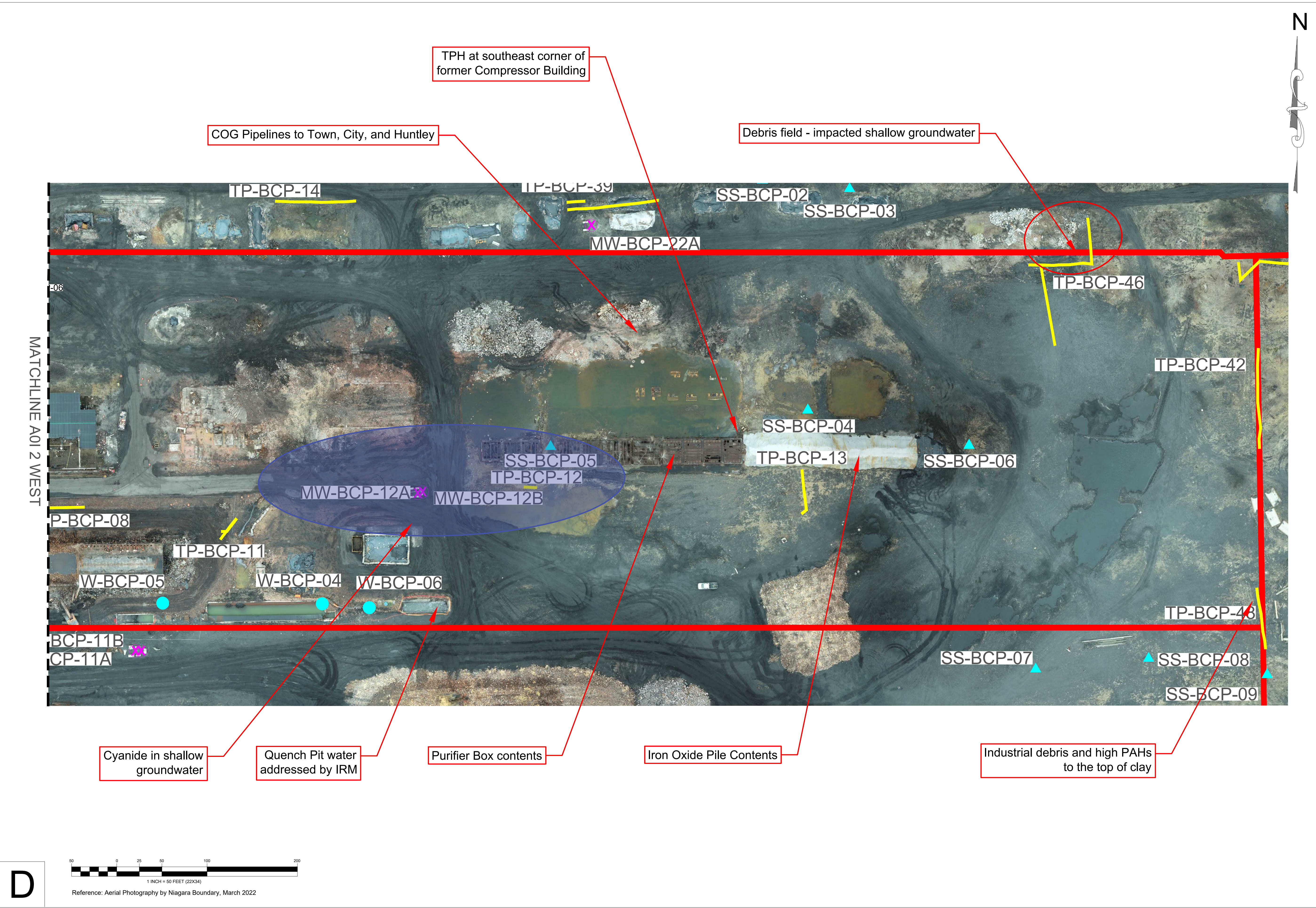
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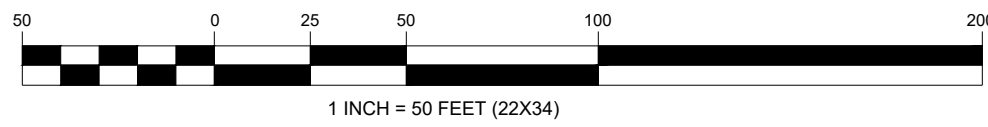
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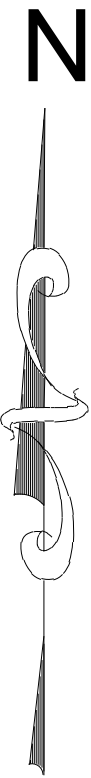


Reference: Aerial Photography by Niagara Boundary, March 2022

Surface PAH impacts



IRM Groundwater Collection
Trench No. 3



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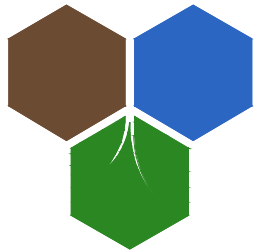
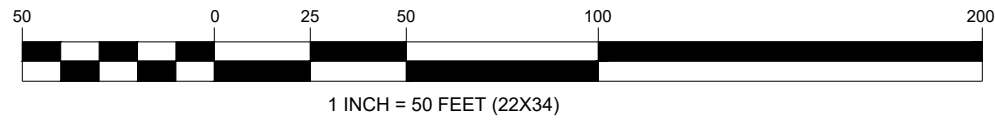


FIGURE 4 - 56

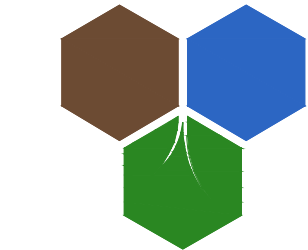
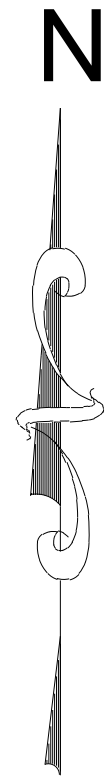
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FIGURE 4 - 57

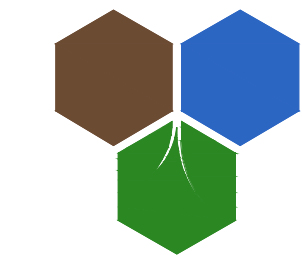
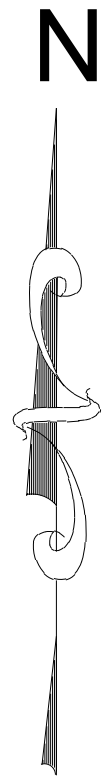
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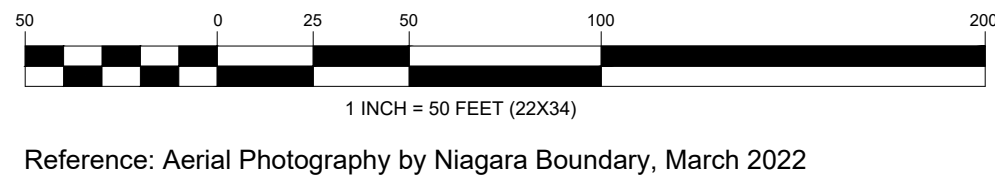
NATURE AND EXTENT
COKE YARD- A01 4 WEST
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FIGURE 4 - 58

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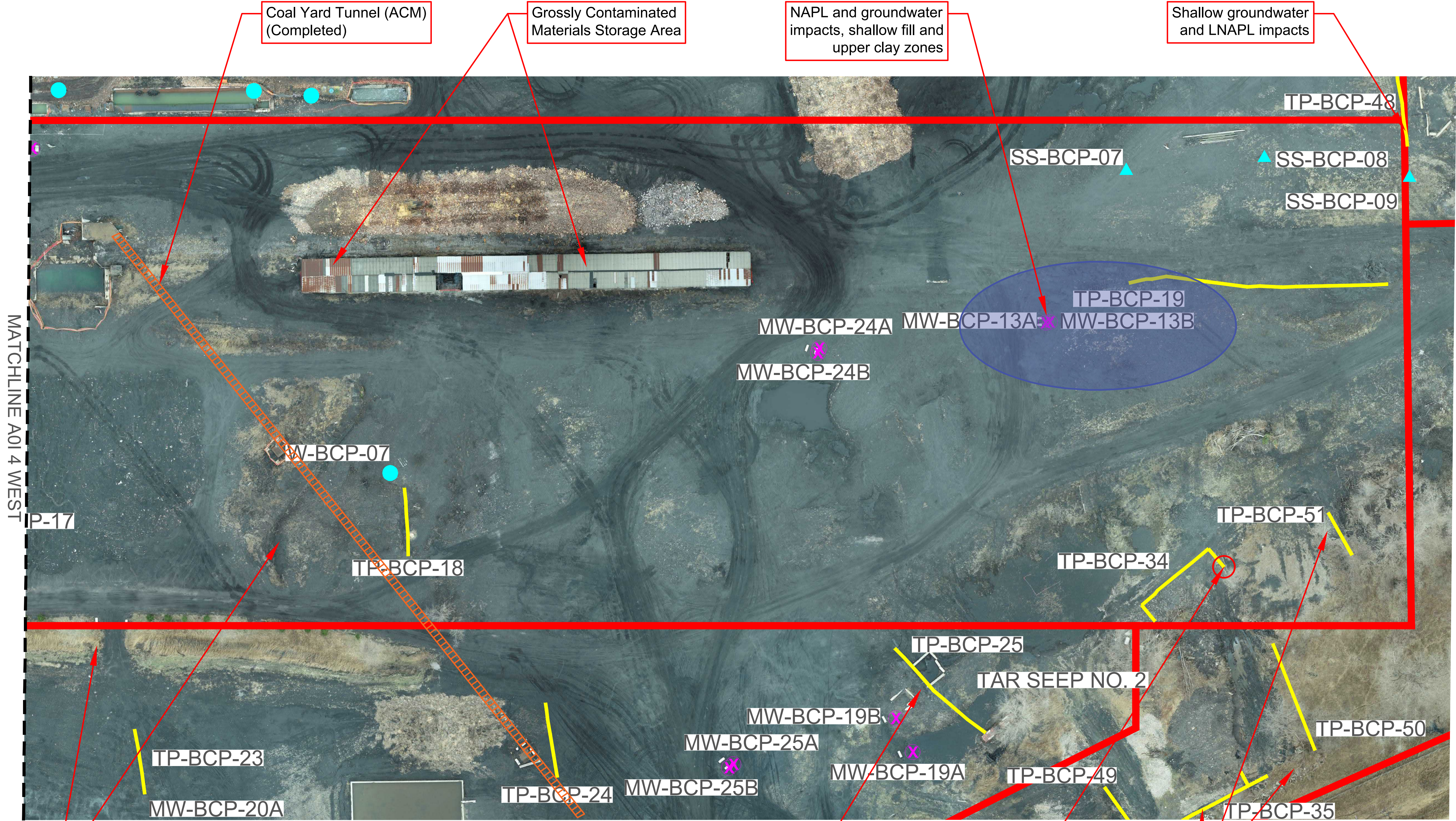


North Ditch

Viscous Tar

Solidified tar

Blue stained fill



Coal Yard Tunnel (ACM)
(Completed)

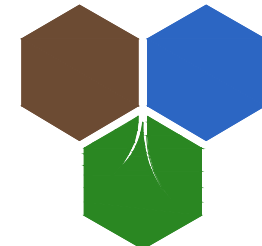
Grossly Contaminated
Materials Storage Area

NAPL and groundwater
impacts, shallow fill and
upper clay zones

Shallow groundwater
and LNAPL impacts



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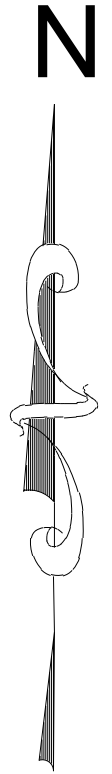
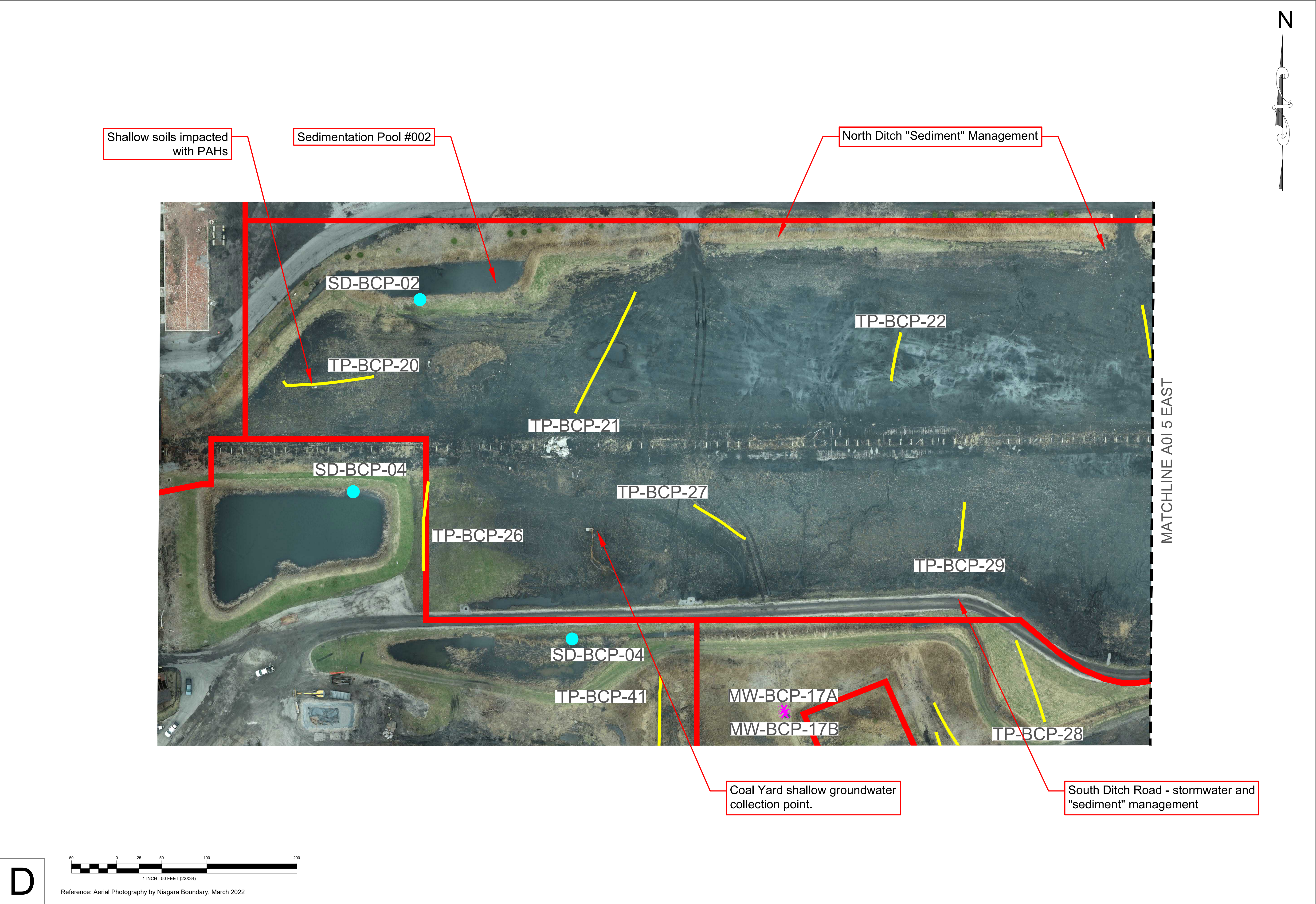


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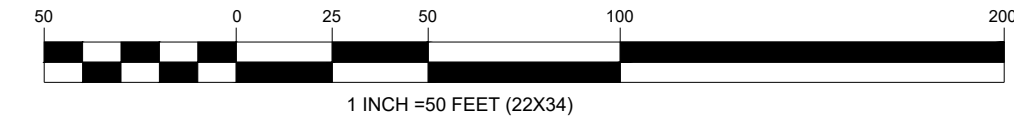
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FIGURE 4 - 59

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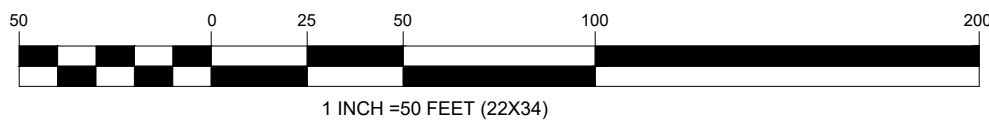
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FIGURE 4 - 60

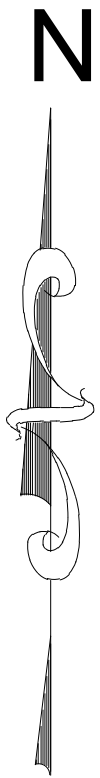
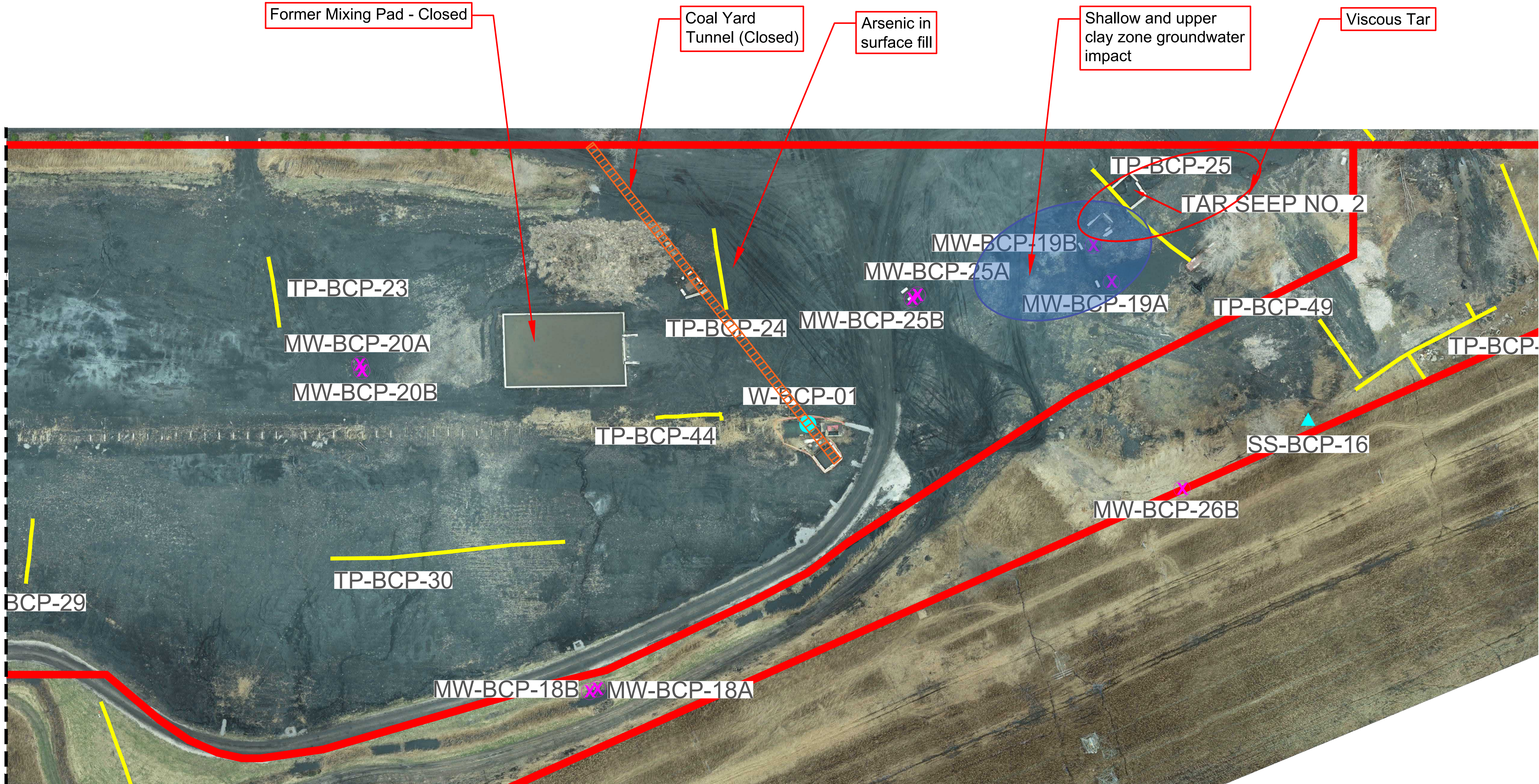
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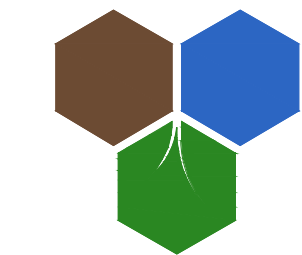
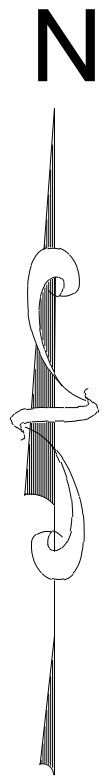
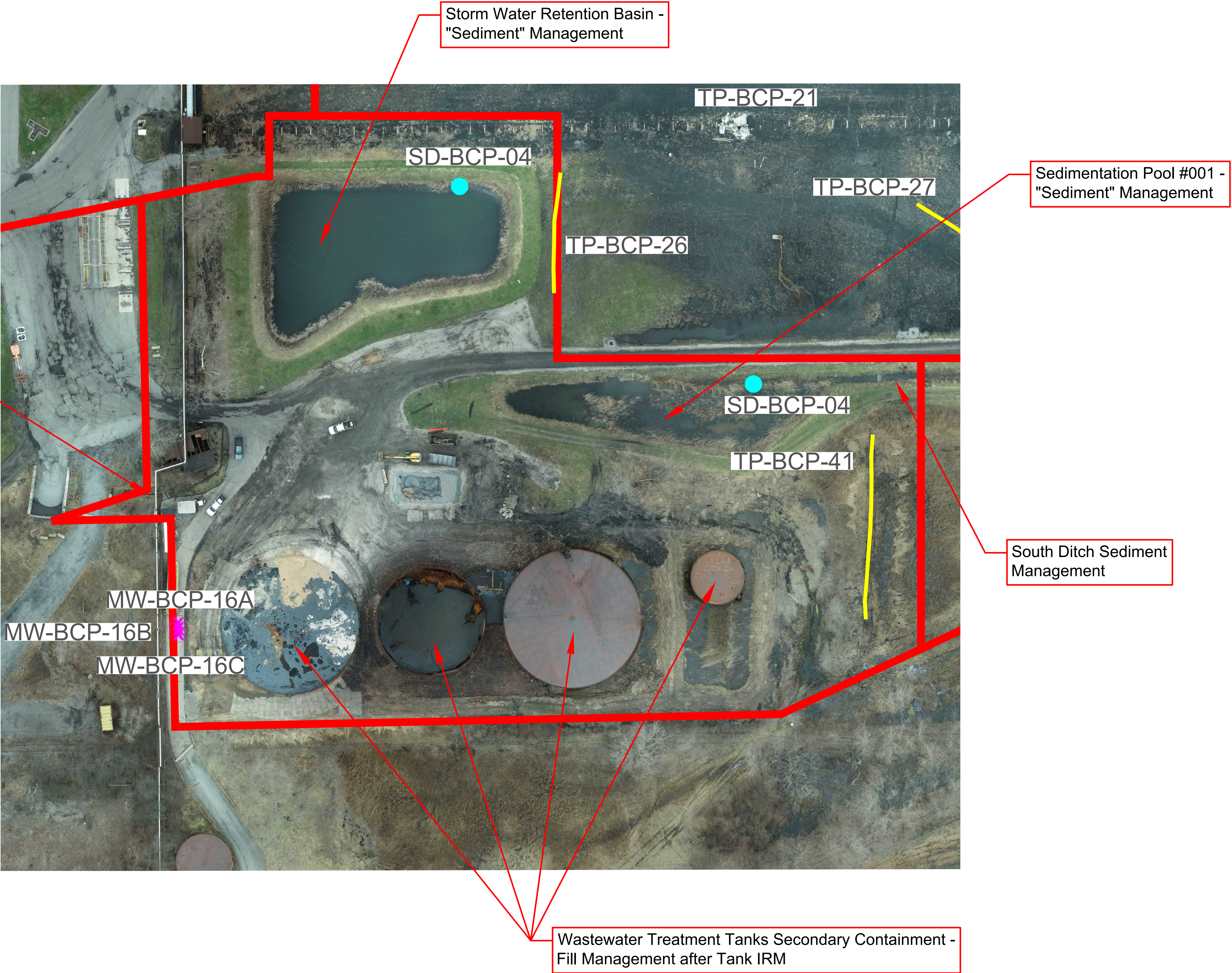
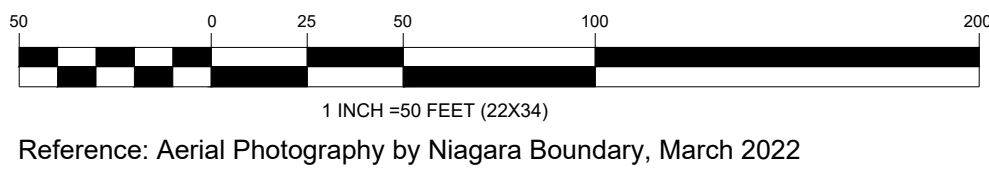
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MATCHLINE A01 5 WEST



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DRAWING NUMBER A01 5 EAST		

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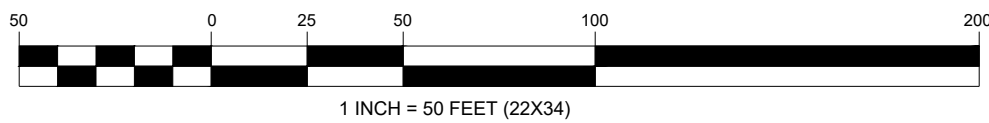
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FIGURE 4 - 62

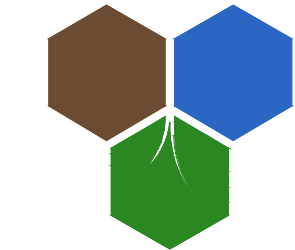
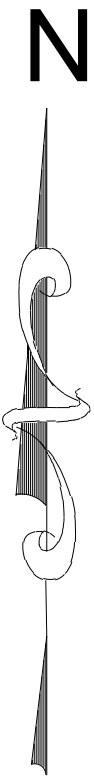
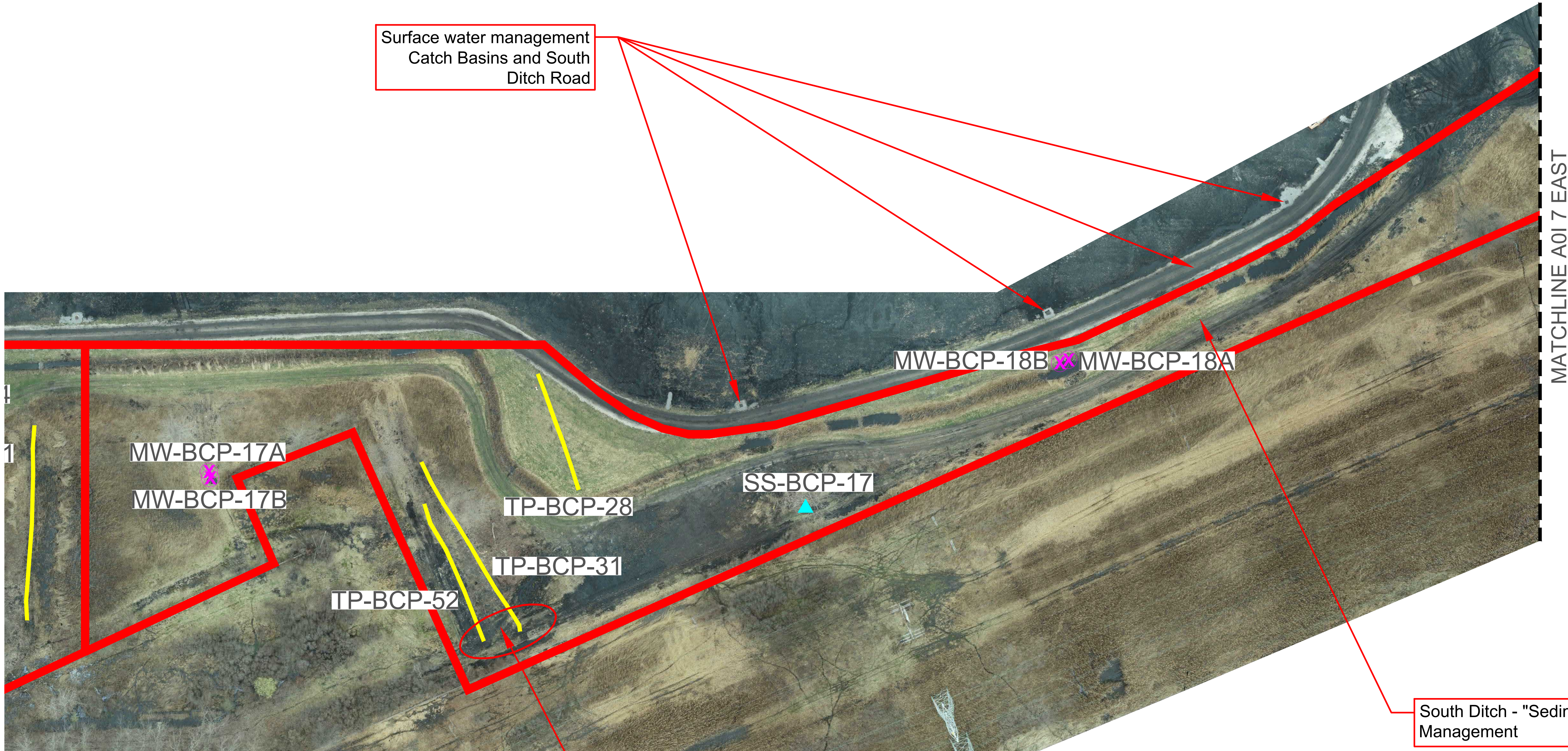
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Reference: Aerial Photography by Niagara Boundary, March 2022



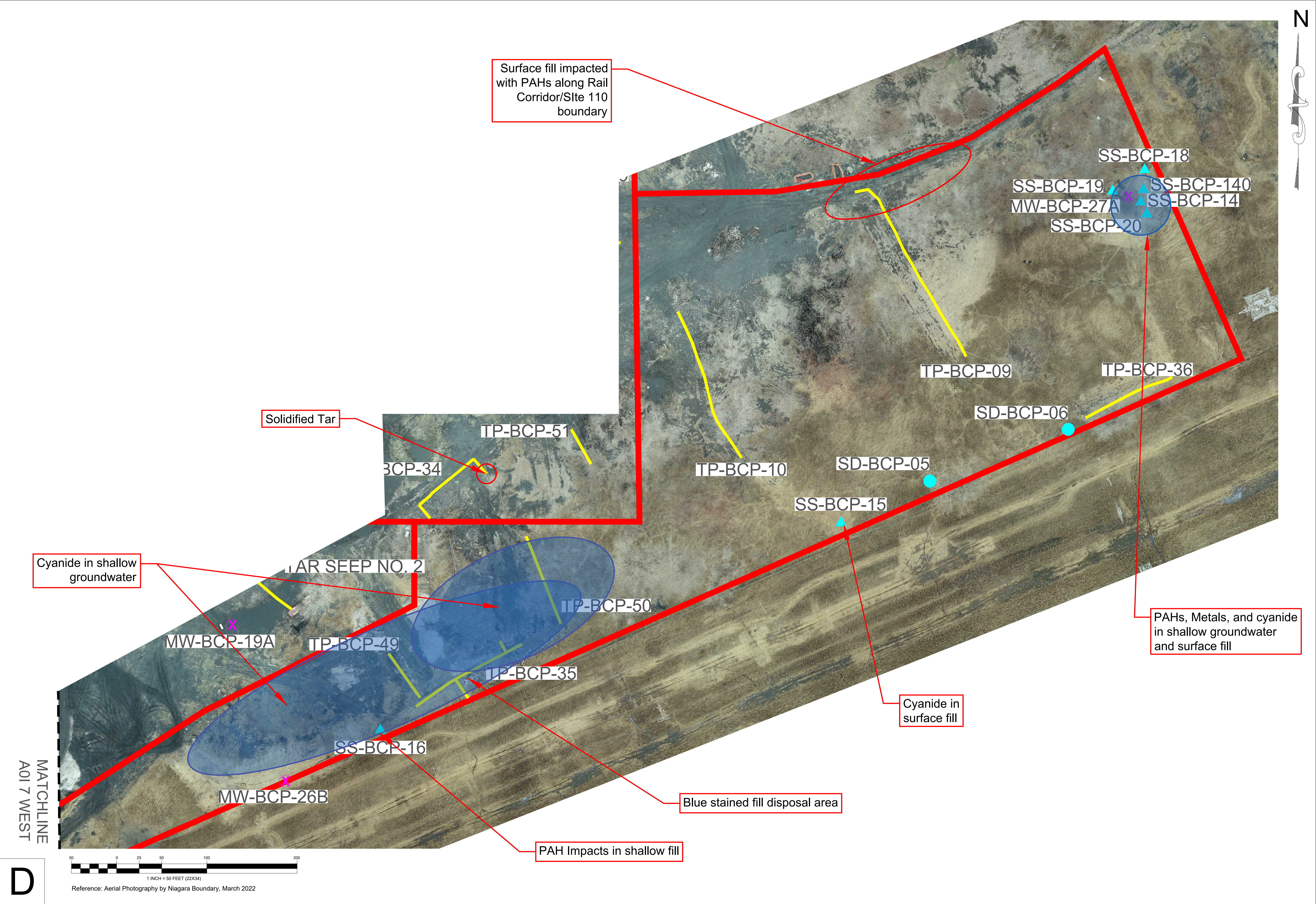
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FIGURE 4 - 63

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FIGURE 4 - 64	
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