# **INTERIM REMEDIATION MEASURE** FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK





# **JULY 2018**

# LOCATION MAP

DI	R	A	V	V	Γ

NUMBER	
1	TITLE SHEET
2	OVERALL EXISTING CO
3	EXISTING CONDITIONS
4	EXISTING CONDITIONS
5	PHASING AND STAGING
6	DEMOLITION PLAN
7	EXCAVATION PLAN I
8	EXCAVATION PLAN II
9	EXCAVATION SUPPORT
10	DETAILS I
11	DETAILS II
12	UTILIITES PLAN AND DE
13	EROSION AND SEDIME
14	EROSION AND SEDIME
15	MATERIAL STAGING AR
16	INTERMEDIATE FINAL O
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CONSTRUCTION DRAWING

NG LIST TITLE CONDITIONS NS - NORTH NS - SOUTH NG PLAN RT PLAN DETAILS IENT CONTROL PLAN IENT CONTROL DETAILS AREA PLAN (MSA) PLAN L GRADE

	1 1							
3	12-JUL-2018		RESPONSE TO	FIELD OBSERVATIONS			BGF	AK
2	05-JUN-2018		RESPONSE TO	AGENCY COMMENTS			JWO	AK
1	10-APR-2018	EXCAV	ATION LIMITS UPDATED BASED	ON DATA RECEIVED A	TER 12 MARC	H 2018	JWO	AK
REV	DATE		DES	SCRIPTION			DRN	APP
	Beec an affili	ch and B engir	Bonaparte Denering p.c.		UN	isy	S	
TITLE:			TITL	E SHEET				
PROJECT:			INTERIM REME	DIATION MEA	ASURE			
SITE:	FC	DRMER	SPERRY-REMIN ELMIRA	GTON SITE - , NEW YORK	NORTH	PORTION		
			OFNEW	DESIGN BY:	AK	DATE:	JL	JLY 2018
P	91	0	S SA KRASNOD PA	DRAWN BY:	JMO	PROJECT NO.:	Ν	/N0832D
au	n Kamp	dh	A LIO	CHECKED BY:	TBR	FILE:	MN08	332D-001
			11 089954-1 <b>3</b>	REVIEWED BY:	PLB	DRAWING NO.:		
(	7/16/201 DATE	В	ROFESSIONA	APPROVED BY:	AK	1	OF	16
		7				8		





	LEGEND	
0	MANHOLE	
	CATCH BASIN	
? <u>"CM</u> P	CULVERT PIPE	
	CHAIN LINK FENCE	
	WOODEN FENCE	
የ	PROPERTY LINE	
/	EXISTING CONTOUR LINE	
	EDGE OF WATER	
	EDGE OF WOODS OR BRUSH	
5AN ——	SANITARY SEWER	0
ST ——	STORM SEWER	
G	GAS PIPELINE	
<i>w</i> ———	WATER PIPELINE	
	INGRESS / EGRESS FOR EXCAVATION	





RESPONSE TO FIELD OBSERVATIONS BGF AK RESPONSE TO AGENCY COMMENTS JWO AK EXCAVATION LIMITS UPDATED BASED ON DATA RECEIVED AFTER 12 MARCH 2018 JWO AK DESCRIPTION DRN APP UNISYS **EXISTING CONDITIONS - SOUTH** INTERIM REMEDIATION MEASURE FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK AK DATE: DESIGN BY: JULY 2018 JWO PROJECT NO.: DRAWN BY: MN0832D CHECKED BY: TBR FILE: MN0832D-004 PLB DRAWING NO.: REVIEWED BY: 16 APPROVED BY: AK 4 OF





	<b>7</b> -N-
	LEGEND
0	MANHOLE
	CATCH BASIN
12"CMP	CULVERT PIPE
-0	CHAIN LINK FENCE
	WOODEN FENCE
ዊ	PROPERTY LINE
90	EXISTING CONTOUR LINE
	EDGE OF WATER
	EDGE OF WOODS OR BRUSH
E	BURIED ELECTRIC CABLE
	SANITARY SEWER
ST	STORM SEWER
G	NATURAL GAS LINER
<i>w</i>	WATER LINE
	EXCAVATION LIMITS
	TREE



2





# 6-8 FT EXCAVATION

### NON RCRA/TSCA SOILS IN UPPER 2 FT TO BE RE-USED AS BACKFILL (PCBS >= 1 AND < 10 mg/kg) NON RCRA/TSCA SOILS IN UPPER 2 FT (PCBS >= 1 AND < 10 mg/kg) OVERLAYING TSCA (PCBS >=50 mg/kg) TO BE RE-USED AS BACKFILL NON RCRA/TSCA FOR OFF-SITE DISPOSAL (PCBS >=10 AND < 50 MG/KG) TSCA SOILS FOR OFF-SITE DISPOSAL (PCBS >= 50 MG/KG)

NOTES:

NYSDEC.

- 1. SEE SHEET 3 FOR GENERAL NOTES.
- SEE SECTION 02110 FOR REQUIREMENTS REGARDING EXCAVATION.
  CONTRACTOR SHALL SUBMIT TO THE ENGINEER AN EXCAVATION WORK PLAN CONFORMING TO THE APPROVED IRM WORK PLAN. ANY MODIFICATIONS OR DEVIATIONS FROM THE APPROVED IRM WORK PLAN MUST BE APPROVED BY
- EXCAVATED SOILS BELOW 50 Mg/Kg PCBs SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING PURSUANT TO THE CATEGORIES SHOWN.
- 5. SOILS WITH 50 Mg/Kg PCBS OR GREAATER WILL BE TRANSFERRED TO THE PCB ACCUMULATION AREA) AND LOADED INTO TRUCKS IN THE TSCA LOADING AREA FOR OFF-SITE DISPOSAL. SEE SHEET 5 FOR DETAILS.
- ALL VEHICLES LEAVING THE EXCAVATION AREA SHALL ONLY USE THE ESTABLISHED TEMPORARY ACCESS ROAD TO ENTER THE AUTOMATED TRUCK WASH. WASH-DOWN OF ALL VEHICLE TIRES/UNDERCARRIAGE SHALL BE PERFORMED PRIOR TO VEHICLES LEAVING THE SITE.
- 7. PLACE DEMARCATION LAYER NETTING OVER BOTTOM OF EXCAVATION PRIOR TO BACKFILLING. SEE DETAIL 7 ON DRAWING 10.
- ALL MATERIALS IMPORTED TO THE SITE MUST MEET THE REQUIREMENTS OF DER-10 SECTION 5.4(e) AND APPENDIX 5 FOR RESTRICTED RESIDENTIAL USE. ALL CONFORMANCE DATA FOR IMPORTED MATERIALS MUST BE VALIDATED AND APPROVED BY NYSDEC.
- 9. CONFIRMATION SAMPLES WILL BE COLLECTED BY ENGINEER. SEE IRM#2 WORK PLAN FOR DETAILS.
- 10. EXCAVATION ADJACENT TO THE EHS BUILDING SHALL NOT EXTEND BELOW THE PILLARS SUPPORTING THE FOUNDATION. APPROX. 3' 4" DEPTH DEEP.

# CONSTRUCTION DRAWING

### POST-EXCAVATION PCB CONFIRMATION SAMPLES

7

	Easting	Northing	Sampling Depth (feet bgs)	Location	Easting	Northing	Sampling Depth (feet bgs)
5	762788.93	753782.56	0-2	SSHS-B1238	762776.98	753663.86	4-6
6	762824.21	753711.81	0-2	SSHS-B1239	762732.49	753643.56	4-6
8	762805.32	753752.49	0-2	SSHS-B1245	762754.58	753651.88	4-6
3	762685.35	753781.27	2-4	SSHS-B1082	762747.12	753664.80	6-8
4	762518.34	753730.76	2-4	SSHS-B1085	762593.44	753822.56	6-8
5	762667.87	753765.80	2-4	SSHS-B1239	762732.49	753643.56	6-8
1	762604.88	753876.81	4-6	SSHS-B1245	762754.58	753651.88	6-8
2	762597.45	753836.22	4-6	SSHS-B1256	762621.85	753850.83	6-8
.8	762746.40	753658.34	4-6	SSHS-B1397	762597.60	753835.73	6-8
6	762537.41	753742.28	4-6	SSHS-B1252	762671.69	753628.30	6-8

### POST-EXCAVATION NON-PCB CONFIRMATION SAMPLES

0    762735.77    753883.54    0-2      1    762752.23    753883.54    0-2      2    762768.23    75380.01    0-2      3    762782.47    75380.01    0-2      5    76279.52    753730.54    0-2      5    76279.52    753730.07    0-2      5    762806.57    753651.96    4-6      5    762782.47    75380.01    0-2      5    762806.57    753730.07    0-2      5    762782.66    753651.95    0-2      5    76278.23    75360.32    0-2      5    75360.32    0-2    SSHS-B1332    76261.82    75360.32    4-6      5    75260.59    0-2    SSHS-B1333    762631.85    75360.32    4-6      5    75261.44    0-2    SSHS-B1333    76258.21    75363.14    4-6      5    762616.42    75380.44    0-2    SSHS-B1334    76254.82    75370.09    4-6      5    76251.86    75380.3.14    0-2    SSHS-B1344    762671.57    75370.79		Easting	Northing	Sampling Depth (feet bgs)	Location	Easting	Northing	Sampling Depth (feet bgs)	E
1    762752.23    753859.70    0-2      2    762768.23    753854.32    0-2      3    762782.47    753808.01    0-2      4    762794.52    753780.54    0-2      5    762806.57    753753.07    0-2      5    76280.657    753753.07    0-2      5    76280.657    753753.07    0-2      5    76280.65    753655.95    0-2      6    762670.93    75360.32    0-2      5    75261.83    75360.32    0-2      5    75261.83    75360.32    0-2      5    75261.83    75360.32    0-2      5    75261.83    75360.32    0-2      5    75261.42    753580.44    0-2      5    76261.42    753586.44    0-2      5    76261.64    75369.79    0-2      5    76263.02    75386.43    0-2      5    76261.64    75369.79    0-2      6    76253.64    75369.79    0-2      762710.78    75369.78	0	762735.77	753883.54	0-2	SSHS-B1327	762583.50	753627.90	2-4	
2    762768.23    753834.32    0-2      3    762782.47    753808.01    0-2      4    762784.52    753780.54    0-2      5    762828.67    75373.07    0-2      5    762818.67    75373.07    0-2      5    762818.67    75375.61    0-2      5    76278.46    75360.32    0-2      76278.73    75361.81    4-6      5    76269.95    0-2    5SHS-B1333    762651.85    75360.32    0-4      762669.95.4    75360.94    0-2    5SHS-B1335    76260.10    75380.43    4-6      5    76261.42    75380.47    0-2    SSHS-B1337    76258.21    75380.32    4-6      5    76261.64    75380.47    0-2    SSHS-B1333    76263.321    75380.32    4-6      5    76251.68    753724.65    0-2    SSHS-B1344    76263.22    75380.37    4-6      5    76251.00    75389.47    0-2    SSHS-B1344    76263.21    75380.7.88    4-6      5    76251.10    753871.46	1	762752.23	753859.70	0-2	SSHS-B1328	762779.79	753723.53	2-4	
3    762782.47    753808.01    0-2      4    762794.52    753780.54    0-2      5    762806.57    753753.07    0-2      6    762818.67    753725.61    0-2      9    762782.66    75365.95    0-2      9    762782.66    753609.32    0-2      5    5762609.54    753609.32    0-2      5    762671.83    753609.94    0-2      5    5762616.42    753580.94    0-2      5    5762616.42    753805.47    0-2      5    5762616.42    753805.47    0-2      5    5762616.42    753805.47    0-2      5    5762616.42    753805.47    0-2      5    5762616.42    753805.47    0-2      5    576261.00    75369.79    0-2      5    576261.00    75369.79    0-2      5    575370.6    2-4    5545-81342    762671.55    753707.79    4-6      5    576251.2    75361.31    2-4    5545-81345    762670.25    753818.37    <	2	762768.23	753834.32	0-2	SSHS-B1329	762773.07	753651.96	4-6	
4    762794.52    753780.54    0-2      5    762806.57    753753.07    0-2      6    762818.67    753753.07    0-2      9    762782.66    753655.95    0-2      5    576269.54    753603.32    0-2      2    762679.53    753603.20    0-2      2    762699.54    75360.94    0-2      3    76261.83    753609.94    0-2      5    76261.64    75388.44    0-2      5    76261.64    75388.43    0-2      5    576261.00    753869.74    0-2      5    5516.61.62    75386.94    0-2      5    56251.00    75388.43    0-2      5    56251.00    75386.94    0-2      5    56251.00    75386.94    0-2      5    75251.68    753724.65    0-2      5    75271.73    569.79    0-2      5    5545-81346    762690.25    75381.87      6    762571.2    75361.31    2-4      7    75362.81	3	762782.47	753808.01	0-2	SSHS-B1330	762721.12	753630.40	4-6	
5    762806.57    753753.07    0-2      6    752818.67    753725.61    0-2      9    762782.66    753655.95    0-2      1    76270293    753603.32    0-2      2    76269.54    753621.44    0-2      3    762671.83    753609.94    0-2      4    762644.12    753589.44    0-2      5    762616.42    75388.43    0-2      5    762616.42    753805.47    0-2      5    762513.68    75374.65    0-2      5    75251.44    753805.47    0-2      5    75251.64    753805.47    0-2      5    75251.64    753805.47    0-2      5    75251.64    753805.47    0-2      5    75251.64    753895.47    0-2      5    75261.38    753742.31    4-6      5    752621.86    75361.31    2-4      76271.78    75369.79    0-2    55H5-B1346    762690.25    753818.37    4-6      5    752621.86    75361.31	4	762794.52	753780.54	0-2	SSHS-B1331	762706.44	753624.31	4-6	
6    762818.67    753725.61    0-2      9    762782.66    75365.95    0-2      1    76270.93    753603.02    0-2      2    762699.54    753601.32    0-2      3    762671.83    753609.94    0-2      4    762641.12    753588.44    0-2      5    762610.42    753805.47    0-2      5    76261.642    753805.47    0-2      6    762630.52    75388.43    0-2      5    76251.68    753724.65    0-2      6    762541.86    753805.47    0-2      762561.00    753699.79    0-2      76261.86    753893.23    0-2      8    762621.86    753629.81    2-4      9    76261.86    753595.66    2-4      9    762671.72    75361.31    2-4      9    762675.12    75361.31    2-4      9    762679.21    753629.33    2-4      1    762679.21    75362.33    2-4      5    762791.71    75362.33    <	5	762806.57	753753.07	0-2	SSHS-B1332	762678.73	753612.81	4-6	
9    762782.66    753655.95    0-2      1    762720.93    753603.32    0-2      2    762699.54    753601.34    0-2      3    762671.83    753609.44    0-2      4    762644.12    753598.44    0-2      5    762616.42    753869.44    0-2      5    762630.52    75388.43    0-2      6    762534.44    75370.94    4-6      5    762616.42    753805.47    0-2      9    762513.68    753724.65    0-2      9    762561.00    753809.77    0-2      0    762561.00    753809.77    0-2      1    762595.64    753809.78    0-2      5    76271.78    753809.77    0-2      7    753699.79    0-2    5SHS-B1344    76263.82    753818.37    4-6      5    76271.78    753899.32    0-2    SSHS-B1350    76263.82    75361.49    6-8      7    762647.41    75362.81    2-4    SSHS-B1351    762570.52    753673.44    6-8 <td>6</td> <td>762818.67</td> <td>753725.61</td> <td>0-2</td> <td>SSHS-B1333</td> <td>762651.85</td> <td>753603.27</td> <td>4-6</td> <td></td>	6	762818.67	753725.61	0-2	SSHS-B1333	762651.85	753603.27	4-6	
1    762720.93    753630.32    0-2      2    762699.54    753621.44    0-2      3    762671.83    753609.94    0-2      4    762641.12    753598.44    0-2      5    752616.42    753589.44    0-2      5    752616.42    753588.44    0-2      5    752616.42    753588.43    0-2      5    752616.42    753805.47    0-2      5    752513.68    753724.65    0-2      9    762595.64    753616.78    0-2      9    762501.00    753699.79    0-2      1    762595.64    75361.78    0-2      2    762710.78    75369.78    0-2      5    752621.86    753595.06    2-4      9    762675.12    75361.78    0-2      2    762710.78    75362.81    2-4      2    762719.76    75362.84    2-4      2    762719.76    75362.84    2-4      2    762719.71    75362.84    2-4      5    762661.10<	9	762782.66	753655.95	0-2	SSHS-B1334	762631.24	753610.57	4-6	
2762699.54753621.440-23762671.83753609.940-24762644.12753389.440-25762616.42753586.940-26762630.5275388.430-28762534.4475380.5470-29762513.68753724.650-29762513.68753724.650-20762561.00753699.790-21762595.64753616.780-22762710.78753893.230-287626275.1275361.312-49762647.41753595.062-49762647.4175369.812-41762702.8275362.812-42762719.7675362.842-44762779.21753654.512-4576271.71753654.512-45762704.4975375.312-46762704.4975375.312-4976261.1075375.312-4976261.1075375.312-49762672.5975379.602-41762687.8375383.092-42762647.4375388.302-45762704.4975388.302-45762704.5975379.602-4676278.3375383.302-45762744.4975388.302-49762744.4975388.302-49762744.3375378.35 <td>1</td> <td>762720.93</td> <td>753630.32</td> <td>0-2</td> <td>SSHS-B1335</td> <td>762602.10</td> <td>753604.38</td> <td>4-6</td> <td></td>	1	762720.93	753630.32	0-2	SSHS-B1335	762602.10	753604.38	4-6	
3    762671.83    753609.94    0-2      4    762644.12    753598.44    0-2      5    762616.42    753598.44    0-2      6    762630.52    753888.43    0-2      6    762630.52    75388.43    0-2      7    75353.68    753724.65    0-2      9    76251.368    753764.55    0-2      0    762561.00    753699.79    0-2      1    762595.64    75360.78    0-2      2    76271.078    753893.23    0-2      2    76271.078    75369.91    2-4      9    762647.41    753595.06    2-4      9    762647.41    75359.91    2-4      0    762675.12    75361.31    2-4      0    76270.82    75362.93    2-4      2    76271.71    75362.33    2-4      5    76279.21    75362.33    2-4      5    76279.49    75379.40    2-4      5    76270.49    75379.40    2-4      5    76270.49	2	762699.54	753621.44	0-2	SSHS-B1336	762786.38	753666.46	4-6	
44762644.12753598.440-25762616.42753586.940-26762630.5275388.430-28762534.44753805.470-29762513.68753724.650-20762595.6475369.790-21762595.6475361.780-22762710.7875389.230-22762710.7875389.230-23762575.1275361.312-49762647.4175359.812-49762647.4175359.812-41762702.8275362.812-42762719.7675362.812-45762791.7175362.832-45762791.7175362.832-4576279.7175362.832-4576279.7175362.832-4576279.7175362.832-4576279.7175362.832-4576279.7175362.832-4576279.7175362.832-4576279.7175362.832-4576279.7175377.962-46762702.8975379.602-47762704.4975379.602-455742.51.975371.596-8576270.5975379.602-455742.51.975374.5575374.556762702.5975379.602-4576264.8675383.302-4 </td <td>3</td> <td>762671.83</td> <td>753609.94</td> <td>0-2</td> <td>SSHS-B1337</td> <td>762588.21</td> <td>753633.14</td> <td>4-6</td> <td></td>	3	762671.83	753609.94	0-2	SSHS-B1337	762588.21	753633.14	4-6	
5    762616.42    753586.94    0-2      6    762630.52    75388.43    0-2      8    762534.44    753805.47    0-2      9    762513.68    753724.65    0-2      9    762513.08    753797.97    0-2      1    762595.64    753610.78    0-2      2    762710.78    75389.32    0-2      1    762595.64    75361.78    0-2      2    762710.78    75389.32    0-2      3    762647.41    75359.66    2-4      9    762647.41    75359.81    2-4      5    762719.76    75362.81    2-4      5    762719.76    75362.81    2-4      7    762702.82    75362.81    2-4      5    762719.76    75362.81    2-4      5    762719.76    75362.81    2-4      6    762748.24    75374.83    2-4      5    762791.71    75362.83    2-4      6    762744.49    75374.93    2-4      7    762704.49	4	762644.12	753598.44	0-2	SSHS-B1338	762539.12	753730.09	4-6	С
6762630.52753888.430-28762534.44753805.470-29762513.68753724.650-20762561.00753699.790-21762595.64753616.780-22762710.78753893.230-2276267.12753695.062-49762675.1275361.312-49762675.1275361.312-41762702.82753629.842-42762719.76753629.842-42762719.71753629.842-43762734.3275371.962-45762791.71753623.332-45762791.71753623.332-46762748.24753799.602-48762661.10753753.312-49762646.8675388.302-49762744.4975380.762-49762744.4975380.762-49762744.4975380.762-49762744.4975383.902-4176268.8075383.902-4176268.8075383.902-42762734.3375383.502-43762734.3375378.502-43762734.3375378.502-45576278.2575365.616-85762542.3175378.502-45576278.3575374.6575365.196675374.35<	5	762616.42	753586.94	0-2	SSHS-B1339	762545.82	753807.88	4-6	
8    762534.44    753805.47    0-2      9    762513.68    753724.65    0-2      0    762561.00    753699.79    0-2      1    762595.64    753616.78    0-2      2    762710.78    753893.23    0-2      8    762647.41    753595.06    2-4      9    762675.12    75361.31    2-4      0    762675.12    75361.31    2-4      0    762779.71    75362.81    2-4      0    762675.12    75361.31    2-4      0    762702.82    75362.81    2-4      5    762719.76    75362.81    2-4      5    762719.76    75362.81    2-4      5    76279.17    75362.83    2-4      5    76279.17    75362.33    2-4      5    762702.49    753771.96    2-4      5    762704.49    753771.96    2-4      6    762671.35    75380.3.28    6-8      58HS-B1361    762632.88    753743.43    6-8      58HS-B1362	6	762630.52	753888.43	0-2	SSHS-B1342	762633.21	753819.49	4-6	
9762513.68753724.650-20762561.00753699.790-21762595.64753616.780-22762710.78753893.230-28762621.86753595.062-49762647.41753599.812-40762702.8275361.312-41762702.82753622.812-42762719.76753629.842-42762719.76753629.842-43762791.71753623.332-44762779.21753645.512-45762761.49753748.932-46762764.49753748.932-47762704.4975374.8932-48762661.1075375.312-49762672.59753779.902-45762702.5975379.902-45762703.512-49762702.5975379.902-45762703.512-49762703.512-49762703.532-45762703.512-49762703.5075379.609762703.512-49762703.5075379.601762687.8375383.302762646.86753858.302762646.86753858.302762703.11753656.196762703.31753704.846762542.3175374.15762542.31753784.15 <td>8</td> <td>762534.44</td> <td>753805.47</td> <td>0-2</td> <td>SSHS-B1344</td> <td>762667.03</td> <td>753742.31</td> <td>4-6</td> <td></td>	8	762534.44	753805.47	0-2	SSHS-B1344	762667.03	753742.31	4-6	
0    762561.00    753699.79    0-2      1    762595.64    753616.78    0-2      2    762710.78    753893.23    0-2      8    762621.86    753595.06    2-4      9    762647.41    753599.81    2-4      0    762675.12    75361.31    2-4      1    762702.82    753622.81    2-4      2    762719.76    753629.84    2-4      3    762779.21    75362.81    2-4      5    76279.17    75362.81    2-4      5    76271.71    75362.93    2-4      5    76279.17    75362.93    2-4      5    76279.17    75362.33    2-4      5    76270.449    753771.96    2-4      5    762661.10    753753.31    2-4      6    762702.59    753840.76    2-4      5    762644.86    75383.99    2-4      5    762646.86    75385.30    2-4      6    762744.49    753783.50    2-4      5    762646.86	9	762513.68	753724.65	0-2	SSHS-B1345	762761.55	753707.79	4-6	
1762595.64753616.780-22762710.78753893.230-28762621.86753595.062-49762647.41753599.812-40762675.12753611.312-41762702.82753622.812-42762719.76753629.842-4276279.2175364.512-4376279.2175364.512-4576279.2175364.512-4576279.1775362.332-4576279.1775362.332-4576270.49753771.962-4576261.1075375.312-49762702.5975379.602-49762702.5975383.3992-42762744.4975383.3992-4276264.6875385.302-43762734.33753783.502-45762734.33753783.502-45762542.31753784.152-45762542.31753784.152-45762542.31753784.152-45762542.31753784.152-45762542.31753784.152-45762542.31753784.152-45762542.31753784.152-45762542.31753784.152-45762542.31753784.152-45762542.31753784.152-45762542.31753765.5	0	762561.00	753699.79	0-2	SSHS-B1346	762690.25	753818.37	4-6	
2762710.78753893.230-28762621.86753595.062-49762647.41753599.812-40762675.12753611.312-41762702.82753622.812-42762719.76753629.842-44762779.21753654.512-45762791.71753654.512-46762704.49753771.962-47762661.1075375.312-49762702.59753799.602-49762702.59753833.992-41762687.8375388.302-42762646.86753858.302-43762734.33753783.502-45762543.3175375.312-45762646.86753858.302-45762543.3175385.302-45762543.31753783.502-45762542.31753784.152-46762542.31753784.152-45762542.31753702.342-45762543.31753784.152-4676253.68753702.342-45762543.31753784.152-4676253.68753702.342-455545.68763702.342-455545.68753702.342-455545.68753702.342-455545.68753702.342-455545.68753702.3	1	762595.64	753616.78	0-2	SSHS-B1348	762738.21	753761.59	4-6	
8    762621.86    753595.06    2-4      9    762647.41    753599.81    2-4      0    762675.12    753611.31    2-4      1    762702.82    753622.81    2-4      2    762719.76    753629.84    2-4      4    762779.21    753654.51    2-4      5    762791.71    753682.33    2-4      5    762704.49    753771.96    2-4      5    762661.10    753755.31    2-4      6    762702.59    753771.96    2-4      5    762661.10    753755.31    2-4      6    762702.59    753799.60    2-4      7    762661.10    753799.60    2-4      9    762702.59    753799.60    2-4      9    762702.59    753799.60    2-4      1    762687.83    75383.3.99    2-4      2    762646.86    753858.30    2-4      3    762734.33    753783.50    2-4      5    762646.86    753858.30    2-4      5    76	2	762710.78	753893.23	0-2	SSHS-B1350	762653.82	753631.59	6-8	-
9762647.41753599.812-40762675.12753611.312-41762702.82753622.812-42762719.76753629.842-44762779.21753654.512-45762791.71753682.332-46762748.24753748.932-47762704.49753771.962-48762661.10753755.312-49762702.59753799.602-41762687.83753833.992-42762646.86753858.302-43762734.33753783.502-45762542.31753784.152-46762535.68753702.342-45762542.31753784.152-45762542.31753784.152-46762535.68753702.342-4	8	762621.86	753595.06	2-4	SSHS-B1351	762625.82	753627.35	6-8	
0762675.12753611.312-41762702.82753622.812-42762719.76753629.842-44762779.21753654.512-45762791.71753682.332-46762748.24753748.932-47762661.10753755.312-48762661.10753755.312-49762702.59753799.602-41762687.8375383.992-42762646.8675385.302-43762734.33753783.502-45762734.33753784.152-46762542.31753784.152-45762542.31753784.152-46762535.68753702.342-4	9	762647.41	753599.81	2-4	SSHS-B1352	762597.46	753631.49	6-8	
1762702.82753622.812-42762719.76753629.842-44762779.21753654.512-45762791.71753682.332-46762748.24753748.932-47762704.49753771.962-48762661.10753755.312-49762702.59753799.602-41762687.8375383.992-42762646.86753858.302-43762734.33753783.502-45762542.31753784.152-46762734.33753784.152-46762535.68753702.342-46762535.68753702.342-4	0	762675.12	753611.31	2-4	SSHS-B1353	762580.80	753653.14	6-8	
2762719.76753629.842-44762779.21753654.512-45762791.71753682.332-46762748.24753748.932-47752704.49753771.962-48762661.10753755.312-49762702.59753799.602-41762687.83753833.992-42762646.86753858.302-43762734.33753783.502-45762542.31753784.152-46762535.68753702.342-45762535.68753702.342-4	1	762702.82	753622.81	2-4	SSHS-B1354	762570.65	753679.44	6-8	
4762779.21753654.512-45762791.71753682.332-46762748.24753748.932-47762704.49753771.962-48762661.10753755.312-49762702.59753799.602-41762687.8375383.992-42762646.8675383.992-43762734.33753783.502-45762543.31753783.502-46762734.33753783.502-46762535.68753702.342-47762535.68753702.342-4	2	762719.76	753629.84	2-4	SSHS-B1355	762671.56	753609.83	6-8	
5762791.71753682.332-46762748.24753748.932-47762704.49753771.962-48762661.10753755.312-49762702.59753799.602-40762744.49753840.762-41762687.83753833.992-42762646.86753858.302-43762734.33753783.502-45762542.31753784.152-46762535.68753702.342-45762535.68753702.342-4	4	762779.21	753654.51	2-4	SSHS-B1356	762560.11	753753.36	6-8	
6762748.24753748.932-47762704.49753771.962-48762661.10753755.312-49762702.59753799.602-49762744.49753840.762-41762687.83753858.302-42762646.86753858.302-43762734.33753783.502-45762542.31753784.152-46762535.68753702.342-4	5	762791.71	753682.33	2-4	SSHS-B1357	762543.51	753815.58	6-8	
7762704.49753771.962-4SSHS-B1360762644.09753803.286-88762661.10753755.312-4SSHS-B1361762632.88753743.436-89762702.59753799.602-4SSHS-B1362762703.11753622.926-80762744.49753840.762-4SSHS-B1363762682.80753749.766-81762687.83753833.992-4SSHS-B1364762761.36753717.596-82762646.86753858.302-4SSHS-B1365762783.25753656.196-83762734.33753783.502-4SSHS-B1366762709.01753656.896-85762535.68753702.342-4SSHS-B1368762734.32753756.546-8	6	762748.24	753748.93	2-4	SSHS-B1359	762616.93	753856.91	6-8	
8762661.10753755.312-4SSHS-B1361762632.88753743.436-89762702.59753799.602-4SSHS-B1362762703.11753622.926-80762744.49753840.762-4SSHS-B1363762682.80753749.766-81762687.83753833.992-4SSHS-B1364762761.36753717.596-82762646.86753858.302-4SSHS-B1365762783.25753656.196-83762734.33753783.502-4SSHS-B1366762709.01753656.896-85762542.31753784.152-4SSHS-B1367762589.85753704.846-86762535.68753702.342-4SSHS-B1368762734.32753756.546-8	7	762704.49	753771.96	2-4	SSHS-B1360	762644.09	753803.28	6-8	
9762702.59753799.602-4SSHS-B1362762703.11753622.926-80762744.49753840.762-4SSHS-B1363762682.80753749.766-81762687.83753833.992-4SSHS-B1364762761.36753717.596-82762646.86753858.302-4SSHS-B1365762783.25753656.196-83762734.33753783.502-4SSHS-B1366762709.01753656.896-85762542.31753784.152-4SSHS-B1367762589.85753704.846-86762535.68753702.342-4SSHS-B1368762734.32753756.546-8	8	762661.10	753755.31	2-4	SSHS-B1361	762632.88	753743.43	6-8	
0762744.49753840.762-4SSHS-B1363762682.80753749.766-81762687.83753833.992-4SSHS-B1364762761.36753717.596-82762646.86753858.302-4SSHS-B1365762783.25753656.196-83762734.33753783.502-4SSHS-B1366762709.01753656.896-85762542.31753784.152-4SSHS-B1367762589.85753704.846-86762535.68753702.342-4SSHS-B1368762734.32753756.546-8	9	762702.59	753799.60	2-4	SSHS-B1362	762703.11	753622.92	6-8	
1762687.83753833.992-4SSHS-B1364762761.36753717.596-82762646.86753858.302-4SSHS-B1365762783.25753656.196-83762734.33753783.502-4SSHS-B1366762709.01753656.896-85762542.31753784.152-4SSHS-B1367762589.85753704.846-86762535.68753702.342-4SSHS-B1368762734.32753756.546-8	0	762744.49	753840.76	2-4	SSHS-B1363	762682.80	753749.76	6-8	
2762646.86753858.302-4SSHS-B1365762783.25753656.196-83762734.33753783.502-4SSHS-B1366762709.01753656.896-85762542.31753784.152-4SSHS-B1367762589.85753704.846-86762535.68753702.342-4SSHS-B1368762734.32753756.546-8	1	762687.83	753833.99	2-4	SSHS-B1364	762761.36	753717.59	6-8	-
3762734.33753783.502-4SSHS-B1366762709.01753656.896-85762542.31753784.152-4SSHS-B1367762589.85753704.846-86762535.68753702.342-4SSHS-B1368762734.32753756.546-8	2	762646.86	753858.30	2-4	SSHS-B1365	762783.25	753656.19	6-8	
5762542.31753784.152-4SSHS-B1367762589.85753704.846-86762535.68753702.342-4SSHS-B1368762734.32753756.546-8	3	762734.33	753783.50	2-4	SSHS-B1366	762709.01	753656.89	6-8	
6 762535.68 753702.34 2-4 SSHS-B1368 762734.32 753756.54 6-8	5	762542.31	753784.15	2-4	SSHS-B1367	762589.85	753704.84	6-8	
	6	762535.68	753702.34	2-4	SSHS-B1368	762734.32	753756.54	6-8	





Location	Easting	Northing	Sampling Depth (feet bgs)
SSHS-B1082	762747.12	753664.80	8-10
SSHS-B1085	762593.44	753822.56	8-10
SSHS-B1238	762776.98	753663.86	8-10
SSHS-B1246	762564.70	753802.41	8-10
SSHS-B1253	762680.16	753716.74	8-10
SSHS-B1088	762563.35	753833.51	10-12
SSHS-B1190	762609.55	753850.15	10-12
SSHS-B1199	762579.05	753720.62	10-12
SSHS-B1204	762727.11	753717.55	10-12
SSHS-B1214	762558.81	753740.30	10-12
SSHS-B1230	762617.46	753810.69	10-12
SSHS-B1241	762561.81	753826.78	10-12
SSHS-B1250	762607.91	753669.58	10-12
SSHS-B1199	762579.05	753720.62	12-14
SSHS-B1214	762558.81	753740.30	12-14
SSHS-B1095	762648.03	753790.44	16-18

	Easting	Northing	Sampling Depth (feet bgs)	Location	Easting	Northing	Sampling Depth (feet bgs)	
1	762563.02	753814.31	8-10	SSHS-B1283	762730.28	753634.06	10-12	
3	762568.75	753785.97	8-10	SSHS-B1284	762707.22	753633.60	10-12	
4	762585.57	753762.60	8-10	SSHS-B1285	762706.31	753661.98	10-12	С
5	762587.24	753734.50	8-10	SSHS-B1286	762742.78	753675.54	10-12	
6	762594.99	753712.90	8-10	SSHS-B1287	762756.48	753649.23	10-12	
7	762585.11	753686.96	8-10	SSHS-B1289	762656.05	753656.07	10-12	
8	762573.04	753661.17	8-10	SSHS-B1290	762636.52	753654.38	10-12	
9	762590.68	753646.26	8-10	SSHS-B1291	762620.28	753678.50	10-12	
0	762617.12	753660.16	8-10	SSHS-B1292	762617.05	753707.06	10-12	
1	762634.57	753681.85	8-10	SSHS-B1293	762697.68	753694.98	10-12	
3	762763.12	753691.66	8-10	SSHS-B1294	762653.72	753735.34	10-12	
4	762706.13	753658.09	8-10	SSHS-B1295	762684.88	753730.19	10-12	
5	762735.90	753660.59	8-10	SSHS-B1297	762584.07	753719.87	10-12	
6	762763.99	753671.13	8-10	SSHS-B1299	762657.92	753783.09	10-12	
8	762733.59	753733.89	8-10	SSHS-B1301	762560.55	753835.98	10-12	
9	762662.54	753726.35	8-10	SSHS-B1303	762657.92	753783.09	12-14	D
0	762657.43	753779.93	8-10	SSHS-B1305	762584.07	753719.87	12-14	
1	762614.04	753881.46	8-10	SSHS-B1307	762658.14	753784.10	14-16	
2	762728.98	753780.82	8-10					
3	762687 39	753716.09	8-10					

![](_page_8_Figure_0.jpeg)

![](_page_8_Figure_3.jpeg)

![](_page_9_Figure_0.jpeg)

![](_page_9_Figure_2.jpeg)

- STAGING AREA FOR SAMPLING.
- POINT OF TSCA LOADING AREA. SUMP LOCATION SHALL BE APPROVED BY ENGINEER.
- WHEN NOT IN USE.
- LOADED IN ACCORDANCE WITH SECTION 02057.

![](_page_9_Picture_9.jpeg)

![](_page_9_Figure_10.jpeg)

![](_page_10_Figure_0.jpeg)

![](_page_11_Figure_0.jpeg)

![](_page_12_Figure_0.jpeg)

THIS SITE POLLUTION PREVENTION PLAN DESCRIBES GENERAL ACTIVITIES TO PREVENT GENERATION OF POLLUTANTS DUE TO IMPROPER HANDLING STORAGE AND SPILLS, AND PREVENT THE MOVEMENT OF TOXIC SUBSTANCES FORM THE SITE INTO SURFACE WATERS. THE FOLLOWING MINIMUM PRACTICES FOR STORMWATER POLLUTION PREVENTION WILL BE PERFORMED:

- 1. ALL STATE AND FEDERAL REGULATIONS SHALL BE FOLLOWED FOR THE STORAGE, HANDLING, APPLICATION, USAGE, AND
- 2. VEHICLE AND CONSTRUCTION EQUIPMENT STAGING AND MAINTENANCE AREAS WILL BE LOCATED AWAY FROM ALL DRAINAGE WAYS WITH THEIR PARKING AREAS GRADED SO THE RUNOFF FROM THESE AREAS IS COLLECTED, CONTAINED
- 3. CONTRACTOR SHALL PROVIDE SANITARY FACILITIES FOR ON-SITE PERSONNEL IN ACCORDANCE WITH THE PROJECT
- 4. CONTRACTOR SHALL STORE, COVER, AND ISOLATE CONSTRUCTION MATERIALS INCLUDING ALL EXCAVATION SPOILS, AND CHEMICALS, TO PREVENT RUNOFF OF POLLUTANTS AND CONTAMINATION OF GROUNDWATER AND SURFACE
- 5. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SPILL PREVENTION AND CONTROL PLAN. THE PLAN SHOULD INCLUDE
- 6. CONTRACTOR SHALL PROVIDE ADEQUATE DISPOSAL FOR SOLID WASTE INCLUDING WOODY DEBRIS, STUMPS, AND OTHER CONSTRUCTION WASTE AND MUNICIPAL WASTE. FILL, WOODY DEBRIS, STUMPS AND CONSTRUCTION WASTE
- 7. CONTRACTOR SHALL POST INFORMATIONAL MATERIAL REGARDING PROPER HANDLING, SPILL RESPONSE, SPILL KIT
- 8. REFUELING EQUIPMENT SHALL BE LOCATED AT LEAST 100 FEET FROM ALL WETLANDS, STREAMS AND OTHER SURFACE

- 1. All TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES AND STORMWATER POLLUTION PREVENTION PLAN PRACTICES SHALL BE INSPECTED DAILY FOR PROPER APPLICATION AND FUNCTION AS DEFINED IN THE SPECIFICATIONS

- 1. ANY WATER CONTACTING EXCAVATION AREAS PRIOR TO BACKFILLING WITH SOIL COVER SYSTEM (SEE DETAIL 7, SHEET 9) OR WATER COLLECTED WITHIN THE EQUIPMENT WASH PAD SUMP, SHALL BE SEGREGATED, CHARACTERIZED AND
- 2. AT THE COMPLETION OF CONSTRUCTION, ALL TEMPORARY ACCESS ROAD CONSTRUCTION MATERIALS AND EQUIPMENT WASH PAD CONSTRUCTION MATERIALS SHALL BE REMOVED, CHARACTERIZED, AND DISPOSED OF ACCORDANCE WITH

# CONSTRUCTION DRAWING

7	8
	MANHOLE
12"CMP	
	CHAIN LINK FENCE
	WOODEN FENCE
₽	PROPERTY LINE
	EXISTING CONTOUR LINE
	EDGE OF WATER
	EDGE OF WOODS OR BRUSH
E	BURIED ELECTRIC CABLE
SAN	SANITARY SEWER
ST	STORM SEWER
G	NATURAL GAS LINER
<i>W</i>	WATER LINE
	EXCAVATION LIMITS
	TREE
LOD	LIMIT OF CONSTRUCTION DISTURBANCE
SF	SILT FENCE
sw	STRAW WATTLE

![](_page_12_Figure_42.jpeg)

3	12-JUL-2018			RESPONSE TO I	FIELD OBSERVATIONS			BGF	AK
2	05-JUN-2018			RESPONSE TO	AGENCY COMMENTS			JWO	AK
1	10-APR-2018	EXCAV	ATION LIMITS	UPDATED BASED	ON DATA RECEIVED	AFTER 12 MARCH	H 2018	JWO	AK
REV	DATE			DES	SCRIPTION			DRN	APP
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![](_page_13_Figure_0.jpeg)

![](_page_13_Figure_1.jpeg)

![](_page_13_Figure_2.jpeg)

![](_page_13_Figure_3.jpeg)

![](_page_14_Figure_0.jpeg)

# CONSTRUCTION DRAWING

![](_page_14_Figure_8.jpeg)

NOTES:

- 1. CONTRACTOR SHALL UTILIZE EARTH DIKE, COMPOST FILTER SOCK, AND DEWATERING SUMP PIT, AS NECESSARY.
- 2. AUTOMATED TRUCK WASH SHALL BE MOBYDICK CONLINE WHEELWASHING SYSTEMS MANUFACTURED BY FRUTIGER COMPANY AG, OR EQUIVALENT APPROVED BY ENGINEER.
- 3. CONTRACTOR SHALL INSTALL TEMPORARY 6' TALL CHAIN LINK FENCING PARALLEL TO THE LIMITS OF CONSTRUCTION DISTURBANCE, AS NEEDED. FENCING SHALL INCLUDE VISUAL SCREENING.
- 4. SECTION(S) OF TEMPORARY FENCE WILL BE REMOVED TO CREATE AN ENTRANCE TO THE MSA AT THE BEGINNING OF EACH DAY OF UNLOADING OR LOADING OPERATIONS. SECTION LOCATION(S) MAY VARY. REMOVED SECTIONS SHALL BE RESTORED AND SECURED AT THE END OF EACH DAY OF MSA OPERATIONS.
- 5. STOCKPILING OF SOILS FOR POTENTIAL RE-USE SHALL BEGIN AT THE SOUTH END OF THE MSA.
- 6. STOCKPILING OF SOILS FOR OFF-SITE TRANSPORT AND DISPOSAL AS NON-HAZARDOUS WASTE WILL BEGIN AT THE NORTH END OF THE MSA.
- 7. WINDROW LAYOUT ALLOWS FOR STOCKPILING OF APPROXIMATELY 4000 CUBIC YARDS (CY) OF SOIL. IF GREATER VOLUME IS REQUIRED, CONTRACTOR MAY REQUEST STOCKPILING OF SOILS WITH LIKE ANALYTICAL RESULTS APPROVED FOR RE-USE OR OFF-SITE DISPOSAL.
- 8. APPROXIMATELY 30 LINEAR FEET OF WINDROW IS EQUIVALENT TO 100 CY.

3	12-JUL-2018		F	RESPONSE TO F	IELD OBSERVATIONS	6		BGF	AK	-
2	05-JUN-2018			RESPONSE TO	AGENCY COMMENTS			JWO	AK	
1	10-APR-2018	EXCAV	ATION LIMITS UF	PDATED BASED	ON DATA RECEIVED	AFTER 12 MARCH	1 2018	JWO	AK	
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		7	<u> </u>				8			┩

![](_page_15_Figure_0.jpeg)

![](_page_15_Figure_7.jpeg)

![](_page_15_Figure_8.jpeg)

	LEGEND
0	MANHOLE
0 0 0	CATCH BASIN
12"CMP	CULVERT PIPE
-0	CHAIN LINK FENCE
-8	WOODEN FENCE
	PROPERTY LINE
90	EXISTING CONTOUR LINE
	EDGE OF WATER
	EDGE OF WOODS OR BRUSH
———— E ————	BURIED ELECTRIC CABLE
	SANITARY SEWER
ST	STORM SEWER
G	NATURAL GAS LINER
——— <i>W</i> ———	WATER LINE
	EXCAVATION LIMITS
	TREE

![](_page_15_Figure_10.jpeg)

![](_page_15_Figure_11.jpeg)

![](_page_15_Figure_12.jpeg)

(PENDING BUD)

- COMPACTED SUBGRADE

![](_page_15_Figure_15.jpeg)

![](_page_15_Figure_16.jpeg)