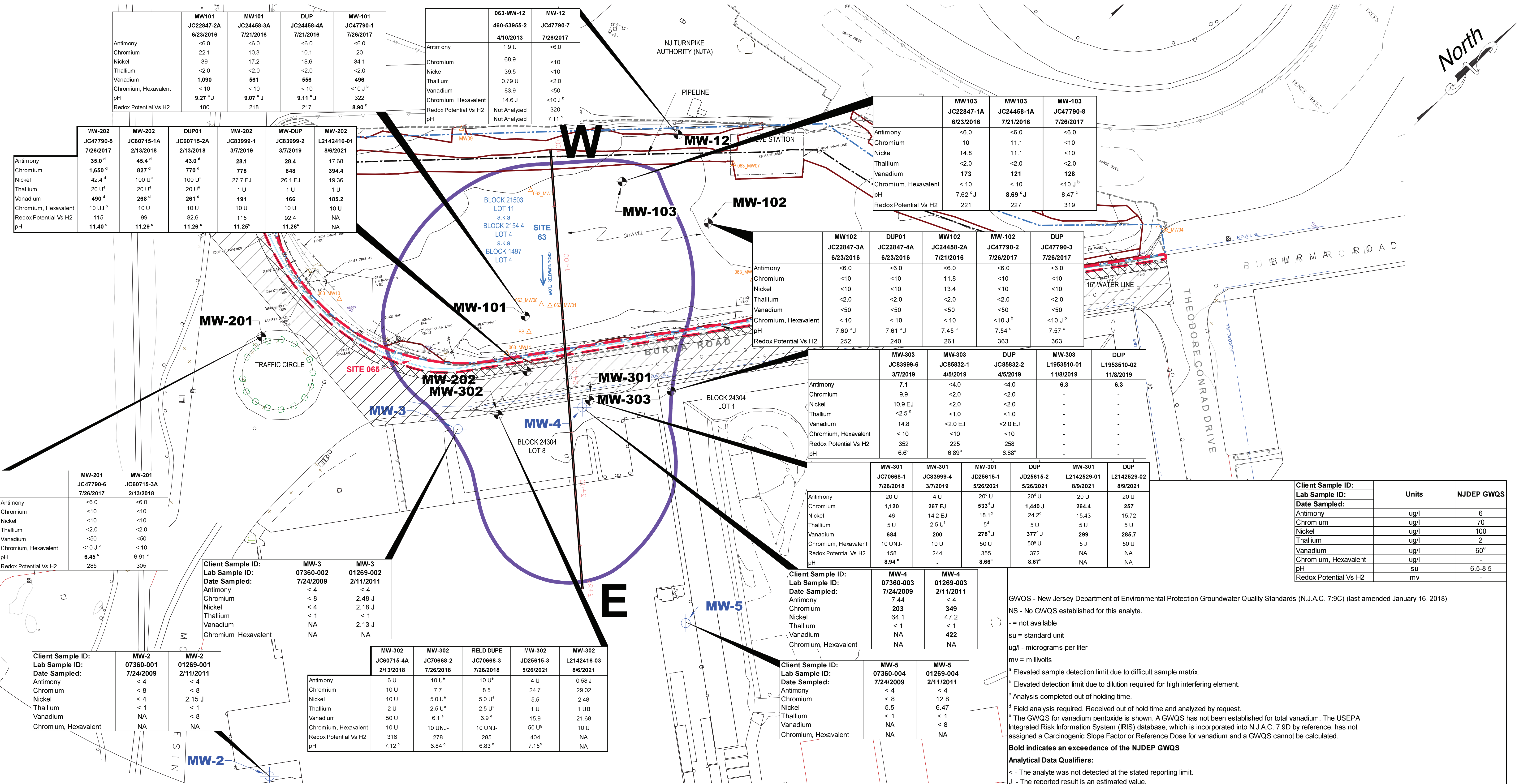


Appendix H

Proposed CEA/WRA



	MW101 JC22847-2A 6/23/2016	MW101 JC24458-3A 7/21/2016	DUP JC24458-4A 7/21/2016	MW-101 JC47790-1 7/26/2017
Antimony	<6.0	<6.0	<6.0	<6.0
Chromium	22.1	10.3	10.1	20
Nickel	39	17.2	18.6	34.1
Thallium	<2.0	<2.0	<2.0	<2.0
Vanadium	1,090	561	556	496
Chromium, Hexavalent	<10	<10	<10	<10 J ^b
pH	9.27 °J	9.07 °J	9.11 °J	<10 J ^b
Redox Potential Vs H2	180	218	217	8.90 °c

	063-MW-12 460-53955-2 4/10/2013	MW-12 JC47790-7 7/26/2017
Antimony	1.9 U	<6.0
Chromium	68.9	<10
Nickel	39.5	<10
Thallium	0.79 U	<2.0
Vanadium	83.9	<50
Chromium, Hexavalent	14.6 J	<10 J ^b
Redox Potential Vs H2	Not Analyzed	320
pH	Not Analyzed	7.11 °c

	MW103 JC22847-1A 6/23/2016	MW103 JC24458-1A 7/21/2016	MW-103 JC47790-8 7/26/2017
Antimony	<6.0	<6.0	<6.0
Chromium	10	11.1	<10
Nickel	14.8	11.1	<10
Thallium	<2.0	<2.0	<2.0
Vanadium	173	121	128
Chromium, Hexavalent	<10	<10	<10 J ^b
pH	7.62 °J	8.69 °J	8.47 °c
Redox Potential Vs H2	221	227	319

	MW-202 JC47790-5 7/26/2017	MW-202 JC60715-1A 2/13/2018	DUP01 JC60715-2A 2/13/2018	MW-202 JC83999-1 3/7/2019	MW-DUP JC83999-2 3/7/2019	MW-202 L2142416-01 8/6/2021
Antimony	35.0 ^d	45.4 ^d	43.0 ^d	28.1	28.4	17.68
Chromium	1,650 ^d	827 ^d	770 ^d	778	848	394.4
Nickel	42.4 ^d	100 U ^e	100 U ^e	27.7 EJ	26.1 EJ	19.36
Thallium	20 U ^e	20 U ^e	20 U ^e	1 U	1 U	1 U
Vanadium	490 ^d	268 ^d	261 ^d	191	166	185.2
Chromium, Hexavalent	10 U J ^b	10 U	10 U	10 U	10 U	10 U
Redox Potential Vs H2	115	99	82.6	115	92.4	NA
pH	11.40 °c	11.29 °c	11.26 °c	11.26 °c	11.26 °c	NA

	MW102 JC22847-3A 6/23/2016	DUP01 JC22847-4A 6/23/2016	MW102 JC24458-2A 7/21/2016	MW-102 JC47790-2 7/26/2017	DUP JC47790-3 7/26/2017
Antimony	<6.0	<6.0	<6.0	<6.0	<6.0
Chromium	<10	<10	11.8	<10	<10
Nickel	<10	<10	13.4	<10	<10
Thallium	<2.0	<2.0	<2.0	<2.0	<2.0
Vanadium	<50	<50	<50	<50	<50
Chromium, Hexavalent	<10	<10	<10	<10 J ^b	<10 J ^b
pH	7.60 °J	7.61 °J	7.45 °c	7.54 °c	7.57 °c
Redox Potential Vs H2	252	240	261	363	363

	MW-303 JC83999-6 3/7/2019	MW-303 JC85832-1 4/5/2019	DUP JC85832-2 4/5/2019	MW-303 L1953510-01 11/8/2019	DUP L1953510-02 11/8/2019
Antimony	7.1	<4.0	<4.0	6.3	6.3
Chromium	9.9	<2.0	<2.0	-	-
Nickel	10.9 EJ	<2.0	<2.0	-	-
Thallium	<2.5 ^g	<1.0	<1.0	-	-
Vanadium	14.8	<2.0 EJ	<2.0 EJ	-	-
Chromium, Hexavalent	<10	<10	<10	-	-
Redox Potential Vs H2	352	225	258	-	-
pH	6.6°c	6.89°c	6.88°c	-	-

	MW-301 JC70668-1 7/26/2018	MW-301 JC83999-4 3/7/2019	MW-301 JD25615-1 5/26/2021	DUP JD25615-2 5/26/2021	MW-301 L2142529-01 8/9/2021	DUP L2142529-02 8/9/2021
Antimony	20 U	4 U	20 ^d U	20 ^d U	20 U	20 U
Chromium	1,120	267 EJ	533 ^d J	1,440 J	264.4	257
Nickel	46	14.2 EJ	18.1 ^d	24.2 ^d	15.43	15.72
Thallium	5 U	2.5 U ^f	5 ^d	5 U	5 U	5 U
Vanadium	684	200	278 ^d J	377 ^d J	299	285.7
Chromium, Hexavalent	10 UNJ-	10 U	50 U	50 U	5 J	50 U
Redox Potential Vs H2	158	244	355	372	NA	NA
pH	8.94 °c	-	8.66°c	8.67°c	NA	NA

	MW-201 JC47790-6 7/26/2017	MW-201 JC60715-3A 2/13/2018
Antimony	<6.0	<6.0
Chromium	<10	<10
Nickel	<10	<10
Thallium	<2.0	<2.0
Vanadium	<50	<50
Chromium, Hexavalent	<10 J ^b	<10
pH	6.45 °c	6.91 °c
Redox Potential Vs H2	285	305

Client Sample ID:	MW-3 07360-002 7/24/2009	MW-3 01269-002 2/11/2011
Antimony	< 4	< 4
Chromium	< 8	2.48 J
Nickel	< 4	2.18 J
Thallium	< 1	< 1
Vanadium	NA	2.13 J
Chromium, Hexavalent	NA	NA

Client Sample ID:	MW-4 07360-003 7/24/2009	MW-4 01269-003 2/11/2011
Antimony	7.44	< 4
Chromium	203	349
Nickel	64.1	47.2
Thallium	< 1	< 1
Vanadium	NA	422
Chromium, Hexavalent	NA	NA

Client Sample ID:	MW-5 07360-004 7/24/2009	MW-5 01269-004 2/11/2011
Antimony	< 4	< 4
Chromium	< 8	12.8
Nickel	5.5	6.47
Thallium	< 1	< 1
Vanadium	NA	< 8
Chromium, Hexavalent	NA	NA

GWQS - New Jersey Department of Environmental Protection Groundwater Quality Standards (N.J.A.C. 7:9C) (last amended January 16, 2018)
 NS - No GWQS established for this analyte.
 - = not available
 su = standard unit
 ug/l - micrograms per liter
 mv = millivolts
^a Elevated sample detection limit due to difficult sample matrix.
^b Elevated detection limit due to dilution required for high interfering element.
^c Analysis completed out of holding time.
^d Field analysis required. Received out of hold time and analyzed by request.
^e The GWQS for vanadium pentoxide is shown. A GWQS has not been established for total vanadium. The USEPA Integrated Risk Information System (IRIS) database, which is incorporated into N.J.A.C. 7:9D by reference, has not assigned a Carcinogenic Slope Factor or Reference Dose for vanadium and a GWQS cannot be calculated.
Bold indicates an exceedance of the NJDEP GWQS
Analytical Data Qualifiers:
 < - The analyte was not detected at the stated reporting limit.
 J - The reported result is an estimated value.
 NJ- = Matrix spike recovery below control limits; result is an estimated value with potential low bias.

Client Sample ID:	Units	NJDEP GWQS
Antimony	ug/l	6
Chromium	ug/l	70
Nickel	ug/l	100
Thallium	ug/l	2
Vanadium	ug/l	60 ^e
Chromium, Hexavalent	ug/l	-
pH	su	6.5-8.5
Redox Potential Vs H2	mv	-

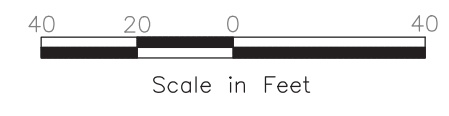
Client Sample ID:	MW-2 07360-001 7/24/2009	MW-2 01269-001 2/11/2011
Antimony	< 4	< 4
Chromium	< 8	< 8
Nickel	< 4	2.15 J
Thallium	< 1	< 1
Vanadium	NA	< 8
Chromium, Hexavalent	NA	NA

	MW-302 JC60715-4A 2/13/2018	MW-302 JC70668-2 7/26/2018	HELD DUPE JC70668-3 7/26/2018	MW-302 JD25615-3 5/26/2021	MW-302 L2142416-03 8/6/2021
Antimony	6 U	10 U ^e	10 U ^e	4 U	0.58 J
Chromium	10 U	7.7	8.5	24.7	29.02
Nickel	10 U	5.0 U ^e	5.0 U ^e	5.5	2.48
Thallium	2 U	2.5 U ^e	2.5 U ^e	1 U	1 UB
Vanadium	50 U	6.1 ^e	6.9 ^e	15.9	21.68
Chromium, Hexavalent	10 U	10 UNJ-	10 UNJ-	50 U ^e	10 U
Redox Potential Vs H2	316	278	285	404	NA
pH	7.12 °c	6.84 °c	6.83 °c	7.15 °c	NA

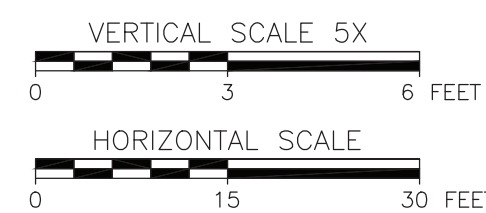
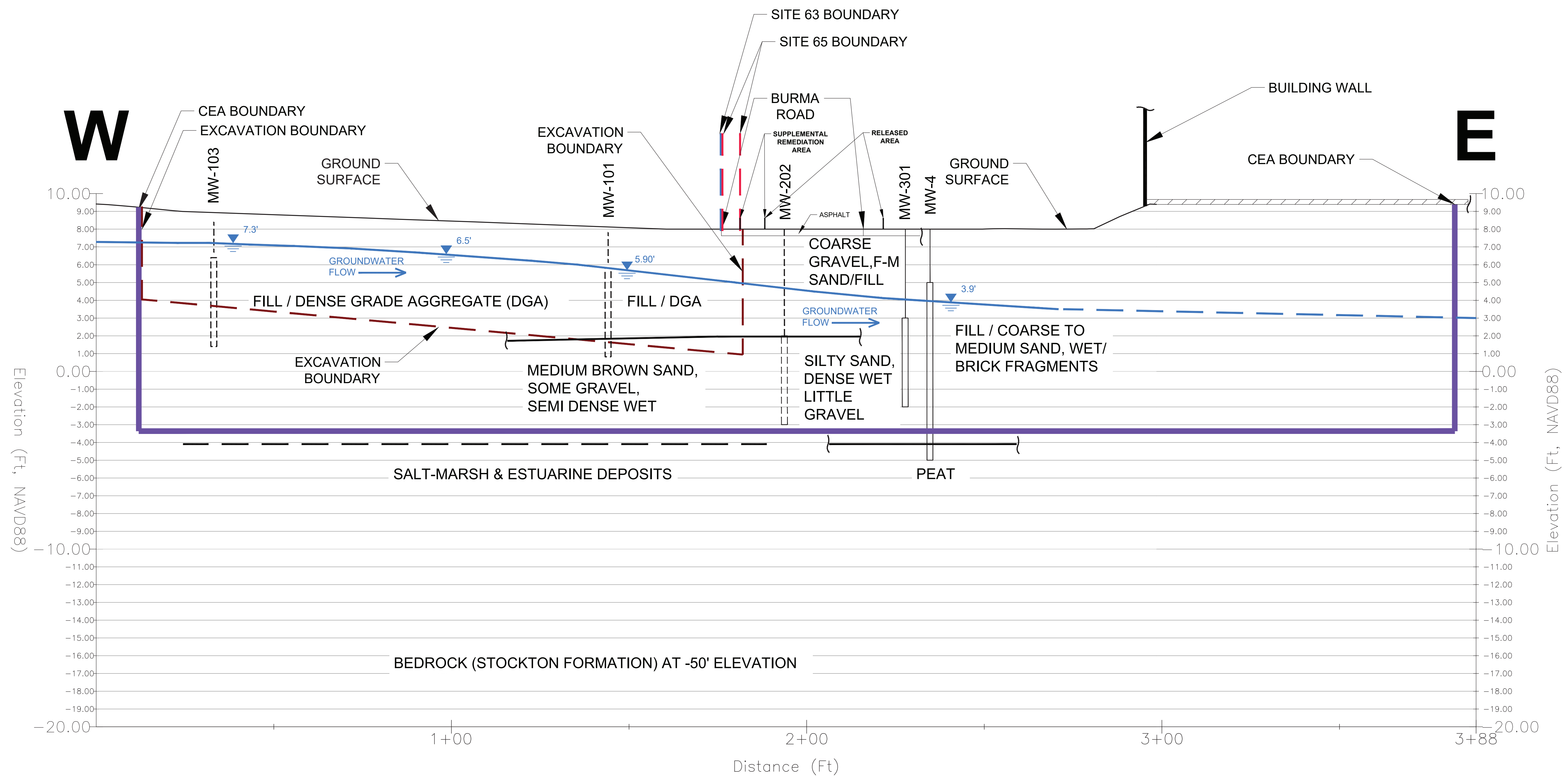
Notes:
 1. IN A NOVEMBER 2012 REMEDIAL INVESTIGATION REPORT / REMEDIAL ACTION WORK PLAN / REMEDIAL ACTION REPORT, PREPARED BY EMVA, LLC FOR 14-16 BURMA ROAD, LLC FOR INVESTIGATIONS RELATED TO SRP ID #G000062419, IT WAS REPORTED THAT MONITORING WELL MW-1 COULD NOT BE LOCATED FOR SAMPLING IN JUNE 2009 AND FEBRUARY 2011.
 2. THE MONITORING WELLS ASSOCIATED WITH SRP ID #G000062419 WERE ABANDONED IN JANUARY 2013.
 3. HORIZONTAL EXTENT OF CONTAMINATION BASED ON POST-SOIL REMEDIATION GROUNDWATER ANALYTICAL DATA, PRE-2016 GROUNDWATER ANALYTICAL DATA FROM MONITORING WELLS ASSOCIATED WITH HCC SITE 63 HAS BEEN EXCLUDED.
Sources:
 LIMITS OF HDPE LINER, SUBSURFACE FABRIFORM DRAINAGE STRUCTURE & STORM SEWER LOCATIONS TAKEN FROM IT CORPORATION'S DRAWING TITLED "EXTENT OF HDPE LINER", FILE NAME: GP12-017, DRAWING NUMBER 7-2, DATED JANUARY 11, 2000.
 BASEMAP INFORMATION SUPPLIED BY C.T. MALE ASSOC.'S DRAWING TITLED "TOPOGRAPHIC SURVEY, SITES 63-65", DRAWING NUMBER 10.352, DATED JUNE 20,2010.
 LOT & BLOCK INFORMATION SOURCE:
 1) HUDSON COUNTY DEPARTMENT OF PLANNING, HUDSON COUNTY, GIS SHAPEFILE, JANUARY 1,2007
 2) NEW JERSEY GEOGRAPHIC INFORMATION NETWORK, MOD IV TAX PARCEL SEARCH DATABASE.

Legend

EXTENT OF CEA (CLASSIFICATION EXCEPTION AREA) BOUNDARY	MANHOLE
EXISTING MONITORING WELL (SITE 63)	UNCERTAIN MANHOLE
HISTORICAL MONITORING WELL (14 BURMA RD)	CATCH BASIN
ABANDONED MONITORING WELL (SITE 63)	UTILITY BOX
FINAL GRADE CONTOUR (IN FEET)	UNCERTAIN CATCH BASIN
SITE 63 BOUNDARY	UTILITY POLE & POLE NUMBER
EXCAVATION BOUNDARY	STREET LIGHT
16" WATER LINE	GUY ANCHOR
GAS LINE	ELECTRIC DEVICE
STORMWATER LINE	FLAG POLE
PIPELINE CENTERLINE	ATHLETIC POLE
ALSO KNOWN AS	POST
TRAFFIC SIGNAL	ROAD SIGN
RAILROAD SIGNAL	U.S. MAIL DROP
SHRUB	MONUMENT
ROCK	UNCERTAIN OBJECT
HYDRANT	DTM POINT
UNCERTAIN HYDRANT	TREE
	FENCE
	RETAINING WALL



APTIM Environmental & Infrastructure, LLC 200 Horizon Center Boulevard Suite 250 Trenton, New Jersey 08691	
DESIGNED BY:	PPG
DRAWN BY:	HUDSON COUNTY, NEW JERSEY
CHECKED BY:	EXHIBIT B-1 CLASSIFICATION EXCEPTION AREA BOUNDARY SITE 63
APPROVED BY:	JERSEY CITY, NEW JERSEY
DATE:	SCALE:
12/2/21	AS SHOWN
DRAWING NO.	SHEET NO.
151136-D3	1 OF 1



LEGEND:

- MW-103: MONITORING WELL WITH SCREEN INTERVAL (DASHED WERE PROJECTED INTO PROFILE)
- Groundwater Table: GROUND WATER TABLE (11/2019) (DASHED WERE INFERRED)
- Lithological Boundary: LITHOLOGICAL BOUNDARY (DASHED WERE INFERRED)
- CEA Boundary: EXTENT OF CEA BOUNDARY
- Excavation Boundary: EXCAVATION BOUNDARY
- Building Slab: BUILDING SLAB

NOTE:
MW-4 (PERMIT #E200907845) WAS ASSOCIATED WITH SITE REMEDIATION PROGRAM INTEREST G000062419 (14-16 BURMA ROAD, LLC). MONITORING WELL MW-4 WAS ABANDONED BY OTHERS IN JANUARY 2013.

APTIM Environmental & Infrastructure, LLC 200 Horizon Center Boulevard Suite 250 Trenton, New Jersey 08691				
DESIGNED BY:	PPG			
A.Y.	HUDSON COUNTY, NEW JERSEY			
DRAWN BY:	EXHIBIT B-2			
A.Y.	CEA CROSS-SECTION MAP			
CHECKED BY:	SITE 63			
C. Leavey	JERSEY CITY, NEW JERSEY			
APPROVED BY:	DATE:	SCALE:	DRAWING NO.	SHEET NO.
C. Leavey	12/2/21	AS SHOWN	151136-D3	