

Sample ID	Date	Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
P4-W19A	03/06/2014	(-7.5) - (-8.0)	20.0 - 20.5	30.7 RA

Sample ID	Date	Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
P4-X19A	03/06/2014	(-8.0) - (-8.5)	20.0 - 20.5	25.8 RA

Sample ID	Date	Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
CAR-EX-8+22-2R	11/08/2019	1.8 - 1.3	9.0 - 9.5	144 J

Sample ID	Date	Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
CAR-EX-8+40-15R	11/05/2019	3.4 - 2.9	7.4 - 7.9	277 J

Sample ID	Date	Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
CAR-9+30-SW-N-1	10/25/2019	4.0 - 3.5	6.8 - 7.3	79.2 J

Sample ID	Date	Elevation (ft)	Depth (ft bgs)	Cr+6 (mg/kg)
P4-EE21A	12/10/2014	4.4 - 3.9	6.0 - 6.5	23.0 J

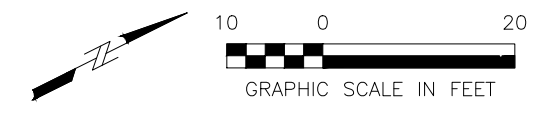
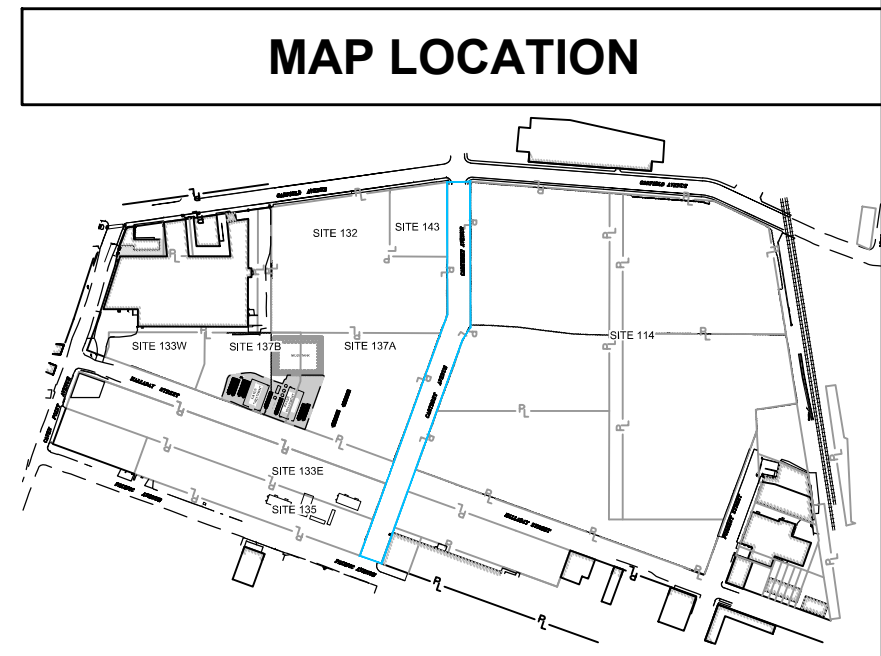
- LEGEND**
- PROPERTY LINE
 - FENCE
 - EDGE OF CONCRETE
 - EXISTING SHEET PILE
 - CURB
 - EXISTING BUILDING
 - GAS UTILITY LINE
 - WATER UTILITY LINE
 - UNDERGROUND ELECTRIC UTILITY LINE
 - SEWER UTILITY LINE
 - COMMUNICATION UTILITY LINE
 - 96" STEEL COMBINED SEWER (APPROXIMATE)
 - COMBINED SEWER MANHOLE
 - CATCH BASIN INLET
 - FIRE HYDRANT
 - WATER VALVE
 - PRE-EXCAVATION GROUND SURFACE ELEVATION CONTOURS 1' INTERVAL 5' INDEX LIMIT OF EXCAVATION
 - POST-EXCAVATION ELEVATION CONTOURS 1' INTERVAL 5' INDEX
 - STONE
 - SUPPORT-OF-EXCAVATION OFFSET FOR PACIFIC AVENUE BUILDINGS
 - RESTRICTED-USE AREA (SEE SPECIFIC NOTE 8)
 - ENGINEERING CONTROL (HDPE LINER) AREA (SEE SPECIFIC NOTE 8)
 - SITE BOUNDARY

- ABBREVIATIONS:**
- bgs BELOW PRE-CONSTRUCTION GROUND SURFACE
 - CCPW CHROMATE CHEMICAL PRODUCTION WASTE
 - COPR CHROMITE ORE PROCESSING RESIDUE
 - Cr+6 HEXAVALENT CHROMIUM
 - Cr CHROMIUM
 - CrSCC CHROMIUM SOIL CLEANUP CRITERION
 - ft FEET
 - HDPE HIGH-DENSITY POLYETHYLENE
 - mg/kg MILLIGRAMS PER KILOGRAM
 - NAVD88 NORTH AMERICAN VERTICAL DATUM OF 1988
 - NJDEP NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
 - U.S. UNITED STATES
- QUALIFIERS:**
- J THE RESULT IS AN ESTIMATED VALUE. THE ASSOCIATED NUMERICAL VALUE IS AN APPROXIMATE CONCENTRATION OF THE ANALYTE IN THE SAMPLE.
 - RA THE RESULT WAS REJECTED DUE TO DEFICIENCIES BUT IS CONSIDERED USEABLE FOR DECISION-MAKING PURPOSES.

- GENERAL NOTES:**
- G1. THE HEXAVALENT CHROMIUM DATA ASSOCIATED WITH THE SAMPLE LOCATIONS SHOWN ON THIS FIGURE ARE PROVIDED IN TABLE 5-1. DATA PRESENTED IN CALLOUT BOXES ON THIS FIGURE ARE OUTLIERS (I.E., DATA POINTS THAT REQUIRE FURTHER EXPLANATION). SPECIFIC NOTES ON HOW THE NJDEP'S REMEDIAL STANDARDS ARE BEING MET AND/OR HOW REMEDIAL COMPLETION IS BEING ACHIEVED FOR EACH OUTLIER SAMPLE ARE PROVIDED IN THE SPECIFIC NOTES IN TABLE 5-1.
 - G2. "DEPTH" REFERS TO THE DIFFERENCE BETWEEN THE SAMPLE ELEVATION AND THE PRE-REMEDIATION SURFACE ELEVATION FOR SAMPLES COLLECTED FROM THE EXCAVATION PIT BOTTOM, OR THE SAMPLE DEPTH FROM THE SURFACE AT THE SAMPLE LOCATION WHEN THE SAMPLE WAS COLLECTED VIA BORING OR TEST PIT.
 - G3. ELEVATION VERTICAL DATUM IS NAVD88, IN U.S. SURVEY FT.
 - G4. RESULTS ARE REPORTED IN MG/KG.
 - G5. THIS FIGURE PRESENTS DATA FOR LOCATIONS WITHIN THE SITE BOUNDARY THAT HAVE SAMPLES REMAINING IN PLACE OR THAT HAVE REMOVED SAMPLES THAT SERVE AS CONFIRMATION SAMPLES. SELECT OFF-SITE LOCATIONS ARE PRESENTED IN THIS FIGURE TO DOCUMENT COMPLIANCE WITH THE REMEDIATION OBJECTIVES OR TO DOCUMENT DELINEATION. SPECIFIC NOTES ON TABLE 5-1 INCLUDE DISCUSSION OF THESE SITUATIONS, IF NECESSARY.
 - G6. "STATION" REFERS TO A SAMPLE'S LOCATION ALONG THE EXCAVATION'S CENTERLINE, WHICH RUNS THE LENGTH OF CARTERET AVENUE STARTING FROM THE WESTERMOST EDGE OF CARTERET AVENUE.

- SPECIFIC NOTES:**
- S1. PRE-CONSTRUCTION TOPOGRAPHIC CONTOURS, PROPERTY LINES, BUILDING EXTENTS, AND SITE FEATURES ARE SOURCED FROM SURVEYS CONDUCTED BETWEEN NOVEMBER 2006 AND JULY 2014 BY BORBAS SURVEYING AND MAPPING, LLC.
 - S2. UNDERGROUND UTILITIES SHOWN ARE BASED ON THE CATCH BASIN/RECEPTOR EVALUATION SURVEY, PPG SITE 114, THE CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY, CONDUCTED BY BORBAS SURVEYING AND MAPPING, LLC, DATED APRIL 15, 2011, AND ON PLANS PROVIDED BY THE CITY OF JERSEY CITY.
 - S3. POST-EXCAVATION ELEVATION SURVEY POINTS WERE SOURCED FROM "AS-BUILT" EXCAVATION SURVEY, CARTERET AVE SITE EXCAVATION, CITY OF JERSEY CITY, HUDSON COUNTY, N.J., CONDUCTED BY BORBAS SURVEYING AND MAPPING, LLC, DATE JANUARY 27, 2021.
 - S4. SIDEWALL SAMPLES WERE NOT REQUIRED WITHIN HALLADAY STREET NORTH ALONG CARTERET AVENUE BASED ON THE ADJACENT EXCAVATION IN HALLADAY STREET NORTH.
 - S5. SAMPLES COLLECTED AT BORING LOCATIONS CAR-PDI-GG21A, CAR-PDI-GG22A, CAR-PDI-GG23A, EF-17, AND EF-129 ARE OUTSIDE THE SITE BOUNDARY AND WERE USED TO INFORM DELINEATION OF CCPW-RELATED IMPACTS.

- S6. THE HDPE LINER WAS INSTALLED AS AN ENGINEERING CONTROL TO ADDRESS TRACE COPR, WHICH WAS OBSERVED IN THE EXCAVATION SIDEWALL FROM STATION 9+25 TO STATION 10+10. THE TRACE COPR REMAINING IN PLACE BENEATH THE HDPE LINER IS BEING DOCUMENTED VIA ENGINEERING CONTROL (HDPE LINER) AND INSTITUTIONAL CONTROLS (NOTICE IN LIEU OF DEED NOTICE).
- S7. SAMPLE LOCATIONS ARE ADJACENT TO EACH OTHER AT STATION 6+47. OFFSET 20L THEREFORE, THE SAMPLE LOCATION SYMBOLS OVERLAP ON THE FIGURE.
- S8. AREA RESTRICTED TO NON-RESIDENTIAL USE VIA INSTITUTIONAL CONTROLS (NOTICE IN LIEU OF DEED NOTICE) BASED ON ATTAINMENT OF THE CrSCC USING COMPLIANCE AVERAGING.



PPG GARFIELD AVENUE GROUP SITES JERSEY CITY, NEW JERSEY	SAMPLE MAP FOR HEXAVALENT CHROMIUM COMPARED TO CrSCC
DATE: 03/19/2021	DRWN: JJA
FIGURE 5-1B	

File: C:\Users\lombardi\OneDrive\Work\Projects\2021\03\19\2021-03-19-02-22 Carteret Ave Figures.dwg Layout: 5-1, 5-2, & 5-3 2021-03-19 10:12am JJA/s