

**LEGEND**

- RESULTS ARE LESS THAN THE CrSCC
- RESULTS EXCEED THE CrSCC, BUT ARE IN COMPLIANCE WITH THE CHROMIUM POLICY PER THE METHOD TO DETERMINE COMPLIANCE AND/OR THE FORREST TEE SUBMITTAL
- RESULTS EXCEED THE CrSCC, BUT ARE BEING ADDRESSED VIA ENGINEERING CONTROLS AND INSTITUTIONAL CONTROLS
- RESULTS EXCEED THE CrSCC, BUT HAVE BEEN ADDRESSED BY EXCAVATION
- CURRENT-USE REMEDIATION AREA BOUNDARIES
- PROPERTY LINE
- CONCEPTUAL POST-EXCAVATION ELEVATION CONTOUR (1-FOOT INTERVAL IN FT NAVD88)
- PRE-REMEDIATION SURFACE ELEVATION CONTOUR (1-FOOT INTERVAL IN FT NAVD88)
- SHEET PILE (AS OF MARCH 2019)
- CONCRETE WALL
- DOOR
- RAILROAD
- BUILDING FOOTPRINT
- MAXIMUM EXTENT OF VISIBLE CCPW MATERIAL AND/OR CR+6 CONCENTRATIONS THROUGHOUT THE GA GROUP SITES.
- ANTICIPATED MAXIMUM EXTENT OF VISIBLE CCPW MATERIAL AND/OR CR+6 CONCENTRATIONS GREATER THAN THE NJDEP CRSCC.

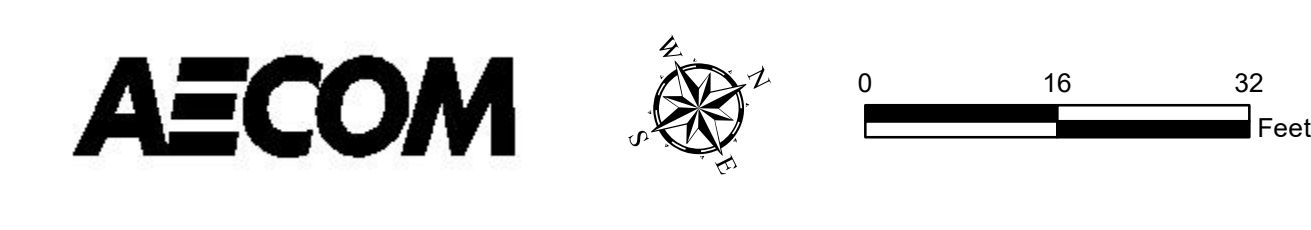
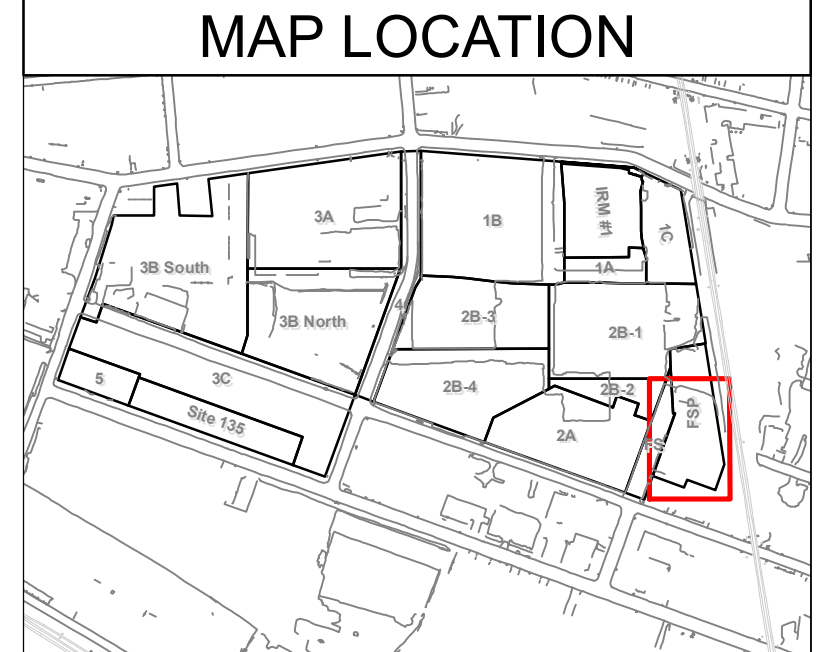
Soil Cleanup Criterion (mg/kg)	
Analyte	CrSCC
CHROMIUM (HEXAVALENT)	20

**ABBREVIATIONS:**  
 bgs – below ground surface  
 CCPW – Chromate Chemical Production Waste  
 Chromium Policy – Memorandum from NJDEP Commissioner Lisa P. Jackson to Irene Kropp, Subject: *Chromium Moratorium (Chromium Policy)*, dated February 8, 2007.  
 Cr<sup>6</sup> – hexavalent chromium  
 CrSCC – Chromium Soil Cleanup Criterion  
 FD – field duplicate  
 Forrest TEE Submittal – March 2017 *Forrest Street and Forrest Street Properties – Proposed Terminal Excavation Elevations Submittal (Revision 1)* (AECOM), as accepted by NJDEP on May 25, 2017.  
 ft – feet  
 Method to Determine Compliance – Letter from Mr. Thomas Cozzi to W. Michael McCabe, Subject: *Re: Updated Method to Determine Compliance with the Department's Chromium Policy, Garfield Avenue – Sites 114, 132, 133, 135, 137, and 143, Jersey City, NJ*, August 13, 2013.  
 mg/kg – milligrams per kilogram  
 NAVD88 – North American Vertical Datum of 1988  
 NJDEP – New Jersey Department of Environmental Protection

**QUALIFIERS:**  
 J – The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.  
 RA – The result was rejected due to deficiencies but is considered usable for decision making purposes.

**GENERAL NOTES:**  
 G1. The hexavalent chromium data associated with the sample locations shown on this figure are provided in Table 2-2. Data presented in call out boxes on this figure are outliers (i.e., data points that require further explanation). When a single location is represented with both an orange and purple symbol (i.e., FS4), the orange indicates "results exceed the most stringent standard, but are being addressed via engineering controls and institutional controls," which applies to the shallower samples at that location (above the horizontal dashed line in the call out box). The purple indicates "results exceed the most stringent standard, but are in compliance with the Chromium Policy per the Method to Determine Compliance and/or the Forrest TEE Submittal," which applies to deeper samples at that location (below the horizontal dashed line in the call out box). Specific notes on how the NJDEP's remedial standards are being met and/or how remedial completion is being achieved/completed for each outlier sample are provided in the Specific Notes in Table 2-2.  
 G2. "Elevation" refers to the sample elevation based on the pre-remediation surface elevation for samples collected from the pit bottom, and the surface elevation of 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. Source of block/lot information is Jersey City Parcel Data from New Jersey Geographic Information Network (NJGIN), last updated 10/6/2015 (available at: <http://data.jerseycitynj.gov/dataset/jersey-city-parcel-polygon>).

**SPECIFIC NOTES:**  
 S1. Property lines and pre-construction topographical contours are sourced from the "Boundary and Topographic Survey, PPG Industries Site 114, Lots 11, 12, 14 and 15, Block 21501, City of Jersey City, Hudson County, New Jersey" prepared by Borbas Surveying and Mapping, LLC, dated January 8, 2019.  
 S2. Conceptual post-excavation elevation contours were generated using professional judgement based on post-excavation survey points and knowledge of excavation practices utilized during the remedial excavation (i.e., excavation conducted on a 30-foot by 30-foot basis). Post excavation survey points were sourced from the "Post Excavation Elevation Plan for ENACT, LLC, PPG Site 133 & 135 Skyways," prepared by Maser Consulting P.A., dated June 30, 2017.  
 S3. For the one grid (Grid DD12B) within the delineation line for which data have not yet been generated to document compliance with the Chromium Policy, PPG will perform sampling consistent with the Updated Method to Determine Compliance. The Cr<sup>6</sup> exceedance at LD-FS10AVS (Grid GG12B), located below the 84 Forrest Street Loading Dock, will be addressed through future residential-use remedial excavation. Delineation within the 84 Forrest Street Loading Dock will be completed via post-excavation samples.



PPG  
 FORREST CURRENT-USE REMEDIATION AREAS  
 GARFIELD AVENUE GROUP  
 JERSEY CITY, NEW JERSEY

Date: 11/20/2019      Drawn by: ALC

**REMEDIAL ACTION WORK PLAN  
 SAMPLE MAP FOR HEXAVALENT CHROMIUM IN SOIL  
 COMPARED TO CHROMIUM SOIL CLEANUP CRITERION**

FIGURE 4-2