

ABBREVIATIONS:

bgs - below ground surface CCPW - Chromate Chemical Production Waste Cr – chromium Cr⁺⁶ – hexavalent chromium

CrSCC - Chromium Soil Cleanup Criterion FD – field duplicate ft – feet

mg/kg - milligrams per kilogram

N/A – not applicable NAVD88 - North American Vertical Datum of 1988 NRDCSRS – New Jersey Department of Environmental Protection Non-Residential

Direct Contact Soil Remediation Standard RDCSRS – New Jersey Department of Environmental Protection Residential Direct

Contact Soil Remediation Standard RDCSRS-GAG - Residential Direct Contact Soil Remediation Standard - Garfield

Avenue Group (alternative remediation standard approved by the New Jersey Department of Environmental Protection on December 28, 2016) SCC- Soil Cleanup Criteria

SRS – Soil Remediation Standard

V – vanadium

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 it consider usable for decision making purposes.

G1. The CCPW metals data associated with the sample locations shown on this figure are provided in Table 2-4. Data presented in call out 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/completed for each outlier sample are provided in the Specific Notes in Table 2-4.

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). G6. There is currently no NJDEP SRS and no NJDEP SCC for total Cr. Therefore. total Cr results are compared to the interim NJDEP Residential SCC for Cr+3 of 120,000 mg/kg as the cleanup criteria for soil at the Garfield Avenue Group Sites. There is no non-residential SCC for Cr⁺³.

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.

\$2. 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 ENTACT, LLC; PPG Site 133 & 135 Skyways," prepared by Maser Consulting P.A., dated June 30, 2017.

Soil Remediation Standards (mg/kg)			
Analyte	RDCSRS	RDCSRS-GAG	NRDCSRS
ANTIMONY	31	N/A	450
CHROMIUM	120000	N/A	N/A
NICKEL	1600	N/A	23000
THALLIUM	N/A	N/A	N/A
VANADIUM	N/A	390	1100

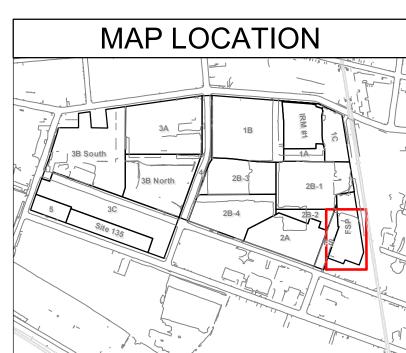


FIGURE 4-4

RESULTS ARE LESS THAN THE

MOST STRINGENT STANDARD

RESULT EXCEEDS THE MOST

IN COMPLIANCE WITH

COLOR)

VANADIUM (V)

AREA BOUNDARIES

STRINGENT STANDARD, BUT IS

REMEDIATION OBJECTIVES, AND IS BEING DOCUMENTED IN A NOTICE IN LIEU OF DEED

NOTICE (ANALYTE INDICATED BY

CURRENT-USE REMEDIATION

CONEPTUAL POST-EXCAVATION **ELEVATION CONTOUR (1-FOOT**

INTERVAL IN FT NAVD88)

INTERVAL IN FT NAVD88)

CONCRETE WALL

BUILDING FOOTPRINT

DOOR

RAILROAD

PRE-REMEDIATION SURFACE ELEVATION CONTOUR (1-FOOT

SHEET PILE (AS OF MARCH 2019)





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

REMEDIAL ACTION WORK PLAN SAMPLE MAP FOR CCPW METALS IN SOIL **COMPARED TO DIRECT CONTACT SOIL REMEDIATION STANDARDS**