

Table 5-2
CCPW Metals Analytical Results for In-Place Soil Compared to Soil Remediation Standards
AI Smith Moving, Garfield Avenue Group
PPG, Jersey City, New Jersey

ABBREVIATIONS:

bgs - below ground surface
CAS RN - Chemical Abstracts Service Registry Number
CCPW - Chromate Chemical Production Waste
Cr - chromium
Cr⁺³ - trivalent chromium
FD - field duplicate sample type
ft - feet
mg/kg - milligrams per kilogram
N - normal sample type
NAVD88 - North American Vertical Datum of 1988
N/A - not applicable
NJDEP - New Jersey Department of Environmental Protection
NRDCSRS - Non-Residential Direct Contact Soil Remediation Standard
PDI - Pre-Design Investigation
RDCSRS - 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
SDG - sample delivery group
TEE - terminal excavation elevation

QUALIFIERS:

J - The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
J- - The analyte was positively identified; the associated numerical value is an estimated quantity with a potential low bias.
U - The analyte was not detected above the sample reporting limit shown.
UJ - The analyte was not detected above the sample reporting limit shown and the reporting limit was approximate.

GENERAL NOTES:

G1. "Grid ID" refers to an area, typically 30 ft by 30 ft, identified as Grid Row S through Y (extending west to east) and Grid Column 49A through 41A (extending from south to north).
G2. "Location ID" refers to the location name where samples were collected.
G3. "Location Elevation" refers to 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. Post-excavation location elevations were assigned location elevations based on the elevation of the PDI sample for which they are named.
G4. Elevation vertical datum is NAVD88, in U.S. survey ft.
G5. For some borings, the Location Elevations presented in this table were revised compared to the Location Elevations used in the proposed TEE Technical Memoranda. The revisions were based on a review of available survey data for individual locations, site-wide topographical surveys, and field notes to provide the most accurate and representative ground surface elevations. In addition, ground surface elevations for borings advanced prior to 2011 were reviewed and, if necessary, converted from the site-specific vertical datum used prior to 2011 into NAVD88.
G6. "Sample ID" refers to the name of a sample collected at a given location and is unique to the depth of the sample collected. The depth listed in the Sample ID may not necessarily correspond to the actual sample depth interval due to corrections made as a result of post-field work review of surveyed surface elevations and/or boring logs. In some cases, the "Sample ID" in the table is a variant of the sample ID in the laboratory report and/or data validation report. In these cases, the "Lab ID" associates the sample results to the laboratory report and/or data validation report.
G7. "Depth Interval" is based on the "Location Elevation."
G8. "Sample Start Elevation" refers to the start of the sample interval. There may be up to 0.1 ft variation between the listed Sample Start Elevation and the elevation calculated using the Location Elevation and Depth Interval due to rounding of the numbers.
G9. In some grids, there may be up to 0.1 ft variation between the sample start elevation of the pit bottom or sidewall sample and the post-excavation elevation survey point due to rounding of the numbers.
G10. "Sample End Elevation" refers to the end of the sample interval. There may be up to 0.1 ft variation between the listed Sample End Elevation and the elevation calculated using the Location Elevation and Depth Interval due to rounding of the numbers.
G11. "Lab ID" refers to the identification number assigned to the sample by the analytical laboratory performing the sample analysis. "Lab SDG" refers to the delivery group number assigned to the sample by the analytical laboratory.
G12. "Date Collected" refers to the date the soil sample was collected.
G13. "Sample Status" of "remaining" indicates the soil in that interval is outside the excavation footprint, and remains in-place at that location.
G14. The post-excavation survey points and 1-ft post-excavation contours representing the as-built terminal excavation elevations are provided on Figure 5-2.
G15. "Sample Type" indicates whether the sample type is normal (N) or a field duplicate (FD).
G16. "Y" indicates that a sample underwent data validation and "N" indicates that data validation was not conducted.
G17. "Result" refers to the analytical result which is reported in mg/kg. A blank entry indicates that the sample was not tested for that analyte.
G18. Bold text indicates a result that exceeds the RDCSRS or the RDCSRS-GAG. Bold and italicized text indicates a result that exceeds the NRDCSRS. Non-bold and non-italicized text indicates the result does not exceed the most stringent SRS.
G19. "Qualifier" refers to the data qualifier assigned by the data validation team reviewing the data from the laboratory for validated data. For unvalidated data, it refers to the qualifier assigned by the laboratory.
G20. Non-detect results are shown on this table using the Method Detection Limit, if available; otherwise they are shown at the Reporting Limit.
G21. 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. Bold values indicate a result that exceeds the interim NJDEP Residential SCC.

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SPECIFIC NOTES:

S1. In Grids T49A and U48A, the location elevations of two or more locations situated inside the area of the former building slab and in the same grid vary by more than two feet. The higher location elevation represents the measured pre-remediation surface elevation of a PDI boring installed within the concrete slab. As explained in General Note G3, the location elevation of the post-excavation samples were assigned in the field based on the location elevation of the PDI boring for which the sample is named. In Grids T49A and U48A, the PDI borings used to estimate the pre-remediation elevations of the post-excavation samples fall outside the building slab, while the post-excavation samples fall inside the footprint of the building slab.

S2. In Grids W49A and X45A, sidewall samples collected from Pacific Avenue were used in the evaluation of compliance for the portion of these grids located within AI Smith Moving.