

Table 5-3
Benzene and Ethylbenzene Analytical Results for In-Place Soil Compared to Soil Remediation Standards
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ABBREVIATIONS:

bgs - below ground surface
CAS RN - Chemical Abstracts Service Registry Number
El. - elevation
FD - field duplicate sample type
ft - feet
GPS - global positioning system
mg/kg - milligrams per kilogram
MM - meadow mat
N - normal sample type
NAVD88 - North American Vertical Datum of 1988
NRDCSRS - Non-Residential Direct Contact Soil Remediation Standard
PDI - Pre-Design Investigation
RDCSRS - Residential Direct Contact Soil Remediation Standard
SDG - sample delivery group
SRS - Soil Remediation Standard
TEE - terminal excavation elevation
UND - undisturbed native deposit

QUALIFIERS:

J - The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.

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 Q through Z (extending west to east) and Grid Column 20A through 41A (extending from north to south).

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.

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" indicates whether a sample is remaining or removed:

- "Remaining" indicates the soil in that interval is outside the excavation footprint, and remains in-place at that location; and

- "Removed" indicates the sample was removed during excavation.

G14. The post-excavation survey points and 1-ft post-excavation contours representing the as-built terminal excavation elevations are provided on Figures 5-3A, 5-3B, and 5-3C.

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.

G18. Bold text indicates that the result exceeds the RDCSRS. Bold and italicized text indicates that the result exceeds the NRDCSRS. Non-bold and non-italicized text indicates that 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.

SPECIFIC NOTES:

S1. This sample was collected by another party. A data validation memorandum has not been identified.

S2. In Grid W26A, a portion of the PDI sample P4-HAL-W26A-15.0-15.5 and its field duplicate P4-HAL-W26A-15.0-15.5X appear to be remaining in place based on the sample elevation (El. -2.9 to -3.4 ft NAVD88) as compared to the as-built TEE (shown on Figure 5-3C). However, based on field observations, these samples were actually removed during excavation. These samples were collected from fill above MM. The excavation field notes indicate that the fill material was removed, MM was not encountered, and this grid was excavated to visually clean UND. In addition, a pit bottom sample 133-W26A-PB-14.5-15.0 was collected at El. -2.4 to -2.9 ft NAVD88.

S3. In Grid X22A, the depth interval included in the Sample ID 133-X22A-PB-14.0-14.5 does not correspond to the actual depth interval where the sample was collected. The depth interval in the sample ID was estimated in the field. The actual depth interval was updated following review of the GPS-measured pre-construction location elevation and GPS-measured sample start elevation and is provided in the "Depth Interval" column on this table.