

**Table 2-8
Benzene Analytical Results for Soil Compared to Soil Remediation Standards
Forrest Current-Use Remediation Areas, Garfield Avenue Group
PPG, Jersey City, New Jersey**

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7)	Sample End Elevation (ft NAVD88) (G4, G8)	Lab ID (G9)	Lab SDG (G9)	Date Collected (G10)	Sample Status (G11, G12)	Sample Type (G13)	Validated (Y/N) (G14)	BENZENE 71-43-2 mg/kg 2 5		Specific Notes
													Result (G15, G16)	Qualifier (G17, G18)	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-3.0-3.5	3.0 - 3.5	7.7	7.2	JC22855-5A	JC22855A	06/23/2016	remaining	N	Y	0.0010		S1
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-5.0-5.5	5.0 - 5.5	5.7	5.2	JC22855-6A	JC22855A	06/23/2016	remaining	N	Y	0.00046	J	S1
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-7.0-7.5	7.0 - 7.5	3.7	3.2	JC22855-7A	JC22855A	06/23/2016	remaining	N	Y	0.00075		S1
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-9.0-9.5	9.0 - 9.5	1.7	1.2	JC22855-8A	JC22855A	06/23/2016	remaining	N	Y	0.0014		S1
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-10.5-11.0	10.5 - 11.0	0.2	-0.3	JC22855-3A	JC22855A	06/23/2016	remaining	N	Y	0.0076		S1
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-11.0-11.5	11.0 - 11.5	-0.3	-0.8	JC22855-4A	JC22855A	06/23/2016	remaining	N	Y	0.00034	J	S1
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-0.0-0.5	0.0 - 0.5	10.7	10.2	JC27321-2A	JC27321A	09/09/2016	remaining	N	Y	< 0.00017	U	S2
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-2.0-2.5	2.0 - 2.5	8.7	8.2	JC27321-8A	JC27321A	09/09/2016	remaining	N	Y	< 0.00018	U	S2
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-4.0-4.5	4.0 - 4.5	6.7	6.2	JC27321-10A	JC27321A	09/09/2016	remaining	N	Y	0.00052	J	S2
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-4.0-4.5X	4.0 - 4.5	6.7	6.2	JC27321-11A	JC27321A	09/09/2016	remaining	FD	Y	< 0.00014	U	S2
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-6.0-6.5	6.0 - 6.5	4.7	4.2	JC27321-12A	JC27321A	09/09/2016	remaining	N	Y	< 0.00013	U	S2
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-8.0-8.5	8.0 - 8.5	2.7	2.2	JC27321-13A	JC27321A	09/09/2016	remaining	N	Y	< 0.00012	U	S2
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-8.5-9.0	8.5 - 9.0	2.2	1.7	JC27321-14A	JC27321A	09/09/2016	remaining	N	Y	< 0.00012	U	S2
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-10.0-10.5	10.0 - 10.5	0.7	0.2	JC27321-3A	JC27321A	09/09/2016	remaining	N	Y	< 0.00012	U	S2
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-12.0-12.5	12.0 - 12.5	-1.3	-1.8	JC27321-4A	JC27321A	09/09/2016	remaining	N	Y	< 0.00011	U	S2
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-14.0-14.5	14.0 - 14.5	-3.3	-3.8	JC27321-5A	JC27321A	09/09/2016	remaining	N	Y	< 0.00014	U	S2
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-16.0-16.5	16.0 - 16.5	-5.3	-5.8	JC27321-6A	JC27321A	09/09/2016	remaining	N	Y	< 0.00012	U	S2
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-18.0-18.5	18.0 - 18.5	-7.3	-7.8	JC27321-7A	JC27321A	09/09/2016	remaining	N	Y	< 0.00010	U	S2
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-20.0-20.5	20.0 - 20.5	-9.3	-9.8	JC27321-9A	JC27321A	09/09/2016	remaining	N	Y	< 0.00012	U	S2
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-0.5-1.0	0.5 - 1.0	10.0	9.5	JC31705-2A	JC31705A	11/14/2016	remaining	N	Y	< 0.00014	U	S3
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-2.5-3.0	2.5 - 3.0	8.0	7.5	JC31705-8A	JC31705A	11/14/2016	remaining	N	Y	0.00037	J	S3
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-4.5-5.0	4.5 - 5.0	6.0	5.5	JC31705-10A	JC31705A	11/14/2016	remaining	N	Y	0.0024		S3
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-5.0-5.5	5.0 - 5.5	5.5	5.0	JC31705-11A	JC31705A	11/14/2016	remaining	N	Y	0.00038	J	S3
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-6.5-7.0	6.5 - 7.0	4.0	3.5	JC31705-12A	JC31705A	11/14/2016	remaining	N	Y	< 0.00014	U	S3
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-6.5-7.0X	6.5 - 7.0	4.0	3.5	JC31705-13A	JC31705A	11/14/2016	remaining	FD	Y	< 0.00013	U	S3
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-8.5-9.0	8.5 - 9.0	2.0	1.5	JC31705-14A	JC31705A	11/14/2016	remaining	N	Y	< 0.00015	U	S3
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-10.5-11.0	10.5 - 11.0	0.0	-0.5	JC31705-3A	JC31705A	11/14/2016	remaining	N	Y	< 0.00012	U	S3
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-12.5-13.0	12.5 - 13.0	-2.0	-2.5	JC31705-4A	JC31705A	11/14/2016	remaining	N	Y	< 0.00014	U	S3
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-14.5-15.0	14.5 - 15.0	-4.0	-4.5	JC31705-5A	JC31705A	11/14/2016	remaining	N	Y	< 0.00011	U	S3
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-16.5-17.0	16.5 - 17.0	-6.0	-6.5	JC31705-6A	JC31705A	11/14/2016	remaining	N	Y	< 0.00011	U	S3
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-18.5-19.0	18.5 - 19.0	-8.0	-8.5	JC31705-7A	JC31705A	11/14/2016	remaining	N	Y	< 0.00013	U	S3
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-20.0-20.5	20.0 - 20.5	-9.5	-10.0	JC31705-9A	JC31705A	11/14/2016	remaining	N	Y	< 0.00013	U	S3
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-0.5-1.0	0.5 - 1.0	10.3	9.8	JC27804-17A	JC27804A	09/16/2016	remaining	N	Y	< 0.00021	U	S2
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-2.5-3.0	2.5 - 3.0	8.3	7.8	JC27804-19A	JC27804A	09/16/2016	remaining	N	Y	< 0.00016	U	S2
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-4.5-5.0	4.5 - 5.0	6.3	5.8	JC27804-20A	JC27804A	09/16/2016	remaining	N	Y	< 0.00013	U	S2
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-6.5-7.0	6.5 - 7.0	4.3	3.8	JC27804-21A	JC27804A	09/16/2016	remaining	N	Y	0.00033	J	S2
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-7.5-8.0	7.5 - 8.0	3.3	2.8	JC27804-22A	JC27804A	09/16/2016	remaining	N	Y	< 0.00014	U	S2
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-8.0-8.5	8.0 - 8.5	2.8	2.3	JC27804-23A	JC27804A	09/16/2016	remaining	N	Y	< 0.00011	U	S2
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-8.5-9.0	8.5 - 9.0	2.3	1.8	JC27804-24A	JC27804A	09/16/2016	remaining	N	Y	< 0.00013	U	S2
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-10.5-11.0	10.5 - 11.0	0.3	-0.2	JC27804-18A	JC27804A	09/16/2016	remaining	N	Y	< 0.00013	U	S2
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-0.0-0.5	0.0 - 0.5	11.0	10.5	JC27483-1A	JC27483A	09/13/2016	remaining	N	Y	< 0.00012	U	S2
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-2.0-2.5	2.0 - 2.5	9.0	8.5	JC27483-8A	JC27483A	09/13/2016	remaining	N	Y	0.00020	J	S2
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-4.0-4.5	4.0 - 4.5	7.0	6.5	JC27483-11A	JC27483A	09/13/2016	remaining	N	Y	0.0131	J	S2
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-4.0-4.5X	4.0 - 4.5	7.0	6.5	JC27483-10A	JC27483A	09/13/2016	remaining	FD	Y	0.00060		S2
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-6.0-6.5	6.0 - 6.5	5.0	4.5	JC27483-12A	JC27483A	09/13/2016	remaining	N	Y	0.00088		S2
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-8.0-8.5	8.0 - 8.5	3.0	2.5	JC27483-13A	JC27483A	09/13/2016	remaining	N	Y	< 0.00012	U	S2
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-10.0-10.5	10.0 - 10.5	1.0	0.5	JC27483-2A	JC27483A	09/13/2016	remaining	N	Y	0.00068		S2
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-11.5-12.0	11.5 - 12.0	-0.5	-1.0	JC27483-3A	JC27483A	09/13/2016	remaining	N	Y	< 0.00011	U	S2
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-12.0-12.5	12.0 - 12.5	-1.0	-1.5	JC27483-4A	JC27483A	09/13/2016	remaining	N	Y	< 0.00011	U	S2
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-14.0-14.5	14.0 - 14.5	-3.0	-3.5	JC27483-5A	JC27483A	09/13/2016	remaining	N	Y	< 0.00012	U	S2
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-16.0-16.5	16.0 - 16.5	-5.0	-5.5	JC27483-6A	JC27483A	09/13/2016	remaining	N	Y	0.00023	J	S2

**Table 2-8
Benzene Analytical Results for Soil Compared to Soil Remediation Standards
Forrest Current-Use Remediation Areas, Garfield Avenue Group
PPG, Jersey City, New Jersey**

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7)	Sample End Elevation (ft NAVD88) (G4, G8)	Lab ID (G9)	Lab SDG (G9)	Date Collected (G10)	Sample Status (G11, G12)	Sample Type (G13)	Validated (Y/N) (G14)	Analyte CAS RN Units RDCSRS NRDCSRS		Result (G15, G16)	Qualifier (G17, G18)	Specific Notes
													BENZENE 71-43-2 mg/kg 2 5				
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-18.0-18.5	18.0 - 18.5	-7.0	-7.5	JC27483-7A	JC27483A	09/13/2016	remaining	N	Y			< 0.00011	U	S2
EE15B	NFS-PDI-EE15B	11.0	NFS-PDI-EE15B-20.0-20.5	20.0 - 20.5	-9.0	-9.5	JC27483-9A	JC27483A	09/13/2016	remaining	N	Y			< 0.00012	U	S2
W13B	FSP-W12B-SW-N2	9.9	FSP-W12B-SW-N-3.5-4.0	3.5 - 4.0	6.4	5.9	JC46203-6A	JC46203A	06/30/2017	remaining	N	Y			0.00081	J	S4
X12B	EF-05	10.6	EF-B05-2.5	2.5 - 3.0	8.1	7.6	460-25190-11	460251901	04/11/2011	remaining	N	Y			< 0.0014	U	S1
X12B	EF-05	10.6	EF-B05-6.0	6.0 - 6.5	4.6	4.1	460-25301-6	460253011	04/13/2011	remaining	N	Y			0.1		S1
X12B	EF-05	10.6	EF-B05-12.5	12.5 - 13.0	-1.9	-2.4	460-25301-8	460253011	04/13/2011	remaining	N	Y			0.0022		S1
X12B	EF-05	10.6	EF-B05-17.0	17.0 - 17.5	-6.4	-6.9	460-25301-9	460253011	04/13/2011	remaining	N	Y			< 0.00086	U	S1
X12B	EF-05	10.6	EF-B05-22.5	22.5 - 23.0	-11.9	-12.4	460-25301-10	460253011	04/13/2011	remaining	N	Y			0.018		S1
Y12B	P4-FOR-Y12B	10.5	P4-FOR-Y12B-0.5-1.0	0.5 - 1.0	9.9	9.4	JC22855-17A	JC22855A	06/23/2016	remaining	N	Y			< 0.00012	U	S5
Y12B	P4-FOR-Y12B	10.5	P4-FOR-Y12B-2.0-2.5	2.0 - 2.5	8.4	7.9	JC22855-18A	JC22855A	06/23/2016	remaining	N	Y			< 0.00013	U	S5
Y12B	P4-FOR-Y12B	10.5	P4-FOR-Y12B-4.0-4.5	4.0 - 4.5	6.4	5.9	JC22855-19A	JC22855A	06/23/2016	remaining	N	Y			0.0045		S5
Y12B	P4-FOR-Y12B	10.5	P4-FOR-Y12B-6.0-6.5	6.0 - 6.5	4.4	3.9	JC22855-20A	JC22855A	06/23/2016	remaining	N	Y			0.00090		S5
Y12B	P4-FOR-Y12B	10.5	P4-FOR-Y12B-6.5-7.0	6.5 - 7.0	3.9	3.4	JC22855-21A	JC22855A	06/23/2016	remaining	N	Y			0.0122		S5
Y12B	P4-FOR-Y12B	10.5	P4-FOR-Y12B-7.0-7.5	7.0 - 7.5	3.4	2.9	JC22855-22A	JC22855A	06/23/2016	remaining	N	Y			< 0.00013	U	S5
Y12B	P4-FOR-Y12BR	10.5	P4-FOR-Y12BR-0.5-1.0	0.5 - 1.0	9.9	9.4	JC23104-12A	JC23104A	06/28/2016	remaining	N	Y			0.0012		S5
Z12B	PSEG-SB62	10.0	NJD981084668-8/17/2007-1	1.5 - 2.0	8.5	8.0	854412	K070	08/17/2007	remaining	N	N			0.27		S1, S6
Z12B	PSEG-SB62	10.0	NJD981084668-8/17/2007-4	7.0 - 7.5	3.0	2.5	854413	K070	08/17/2007	remaining	N	N			< 0.0017	U	S1, S6
Z12B	PSEG-SB62	10.0	NJD981084668-8/17/2007-2	19.0 - 19.5	-9.0	-9.5	854414	K070	08/17/2007	remaining	N	N			< 0.0012	U	S1, S6
Z12B	PSEG-SB62	10.0	NJD981084668-8/17/2007-5	19.0 - 19.5	-9.0	-9.5	854415	K070	08/17/2007	remaining	FD	N			< 0.0012	U	S1, S6
Z12B	PSEG-SB62	10.0	NJD981084668-8/17/2007-3	30.0 - 30.5	-20.0	-20.5	854416	K070	08/17/2007	remaining	N	N			< 0.0012	U	S1, S6

Table 2-8
Benzene Analytical Results for Soil Compared to Soil Remediation Standards
Forrest Current-Use Remediation Areas, Garfield Avenue Group
PPG, Jersey City, New Jersey

ABBREVIATIONS:

bgs - below ground surface
CAS RN - Chemical Abstracts Service Registry Number
FD - field duplicate sample type
ft - feet
mg/kg - milligrams per kilogram
N - normal sample type
NAVD88 - North American Vertical Datum of 1988
NRDCSRS - Non-Residential Direct Contact Soil Remediation Standard
RDCSRS - Residential Direct Contact Soil Remediation Standard
SDG - sample delivery group
SRS - Soil Remediation Standard

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.

GENERAL NOTES:

G1. "Grid ID" refers to an area, typically 30 ft by 30 ft, identified as Grid Row W through HH (extending west to east) and Grid Column 10B through 17B (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.
G4. Elevation vertical datum is NAVD88, in U.S. survey ft.
G5. "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.
G6. "Depth Interval" is based on the "Location Elevation."
G7. "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.
G8. "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.
G9. "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.
G10. "Date Collected" refers to the date the soil sample was collected.
G11. "Sample Status" of "remaining" indicates the soil in that interval is outside the excavation footprint, and remains in-place at that location.
G12. The 1-ft post-excavation contours representing the as-built terminal excavation elevations are provided on Figure 4-1 through Figure 4-9.
G13. "Sample Type" indicates whether the sample type is normal (N) or a field duplicate (FD).
G14. "Y" indicates that a sample underwent data validation and "N" indicates that data validation was not conducted.
G15. "Result" refers to the analytical result which is reported in mg/kg.
G16. 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.
G17. "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.
G18. Non-detect results are shown on this table using the Method Detection Limit, if available; otherwise they are shown at the Reporting Limit.

SPECIFIC NOTE:

S1. This sample is remaining in place within the Forrest Street Utility Offset.

S2. This sample is remaining in place with the 90 Forrest Street Alleyway.

S3. This sample is remaining in place within the 86/90 Forrest Street Building Footprint.

S4. This sample is remaining in place within the 100 Forrest Street Offset.

S5. This sample is remaining in place within the 100 Forrest Street Loading Dock Driveway.

S6. This sample was collected by another party. A data validation memorandum has not been identified.