

Table 4-3
Analytical Methods/Quality Assurance Summary
PPG Industries, Jersey City, New Jersey
Remedial Investigation Report - Soil

Parameter	Laboratory	Method ¹	Container	Preservation	Holding Time	Number Collected				
						Samples	Field Duplicates	Trip Blanks ²	Field Blanks ³	MS/MSD
RI Program										
Hexavalent Chromium ⁴	Test America Laboratories, Edison NJ	SW846 3060A/7196A	1 x 8 oz. glass	Cool 4°C (± 2 °C)	30 days to extract, 24 hr from extraction to analysis	498	26	-	31	27
Eh ⁴		Standard Methods(SM) 2580	1 x 4-oz. glass jar	Cool 4°C (± 2 °C)	At time of extraction for Cr ⁺⁶	498	26	-	29	-
pH ⁴		SW846 9045C/9040 (EBs)	1 x 4-oz. glass jar	Cool 4°C (± 2 °C)		498	26	-	30	-
TAL Metals		SW846 3010A or 3050B, SW846 6010B or 6020	1 x 4-oz. glass jar	Cool 4°C (± 2 °C)	180 days	214	9	-	25	23
Mercury		SW846 7471/7470 (EBs)			28 days	57	3	-	11	7
Volatile Organic Compounds (VOCs)		SW846 5035A/8260B	Encore	Cool 4°C (± 2 °C)	14 days	45	2	8	12	2
Semivolatile Organic Compounds (SVOCs)		SW846 3541/8270C	1 x 8 oz. glass	Cool 4°C (± 2 °C)	14 days to extract, 40 days from extraction to analysis	50	3	-	10	4
Polychlorinated Biphenyls (PCBs)		SW846 3541/8082A	1 x 8 oz. glass	Cool 4°C (± 2 °C)		19	2	-	8	5
NRDC Investigation										
Hexavalent Chromium ⁴	Test America Laboratories, Edison NJ	SW846 3060A/7196A	1 x 8 oz. glass	Cool 4°C (± 2 °C)	30 days to extract, 24 hr from extraction to analysis	89	2	-	3	6
Eh ⁴		Standard Methods 2580	1 x 4-oz. glass jar	Cool 4°C (± 2 °C)	At time of extraction for Cr ⁺⁶	89	2	-	3	-
pH ⁴		SW846 9045C/9040 (EBs)	1 x 4-oz. glass jar	Cool 4°C (± 2 °C)		89	2	-	3	-

Table 4-3
Analytical Methods/Quality Assurance Summary
PPG Industries, Jersey City, New Jersey
Remedial Investigation Report - Soil

Parameter	Laboratory	Method ¹	Container	Preservation	Holding Time	Number Collected				
						Samples	Field Duplicates	Trip Blanks ²	Field Blanks ³	MS/MSD
Geotechnical Investigation										
Hexavalent Chromium ⁴	Accutest Laboratories, Dayton, NJ	SW846 3060A/7196A	1 x 8 oz. glass	Cool 4°C (± 2 °C)	30 days to extract, 24 hr from extraction to analysis	137	4	-	9	22
Eh ⁴		Standard Methods 2580	1 x 4-oz glass jar	Cool 4°C (± 2 °C)	At time of extraction for Cr ⁺⁶	137	4	-	9	-
pH ⁴		SW846 9045C	1 x 4-oz. glass jar	Cool 4°C (± 2 °C)		137	4	-	0	-
TAL Metals		SW846 3050/6010	1 x 4-oz. glass jar	Cool 4°C (± 2 °C)	180 days	137	4	-	9	8
Mercury		SW846 7471/7470 (EBs)			28 days	4	0	-	1	0
VOCs		SW846 5035/8260	Encore	Cool 4°C (± 2 °C)	14 days	4	0	0	1	0
SVOCs		SW846 3550/8270	1 x 8 oz. glass	Cool 4°C (± 2 °C)	14 days to extract, 40 days from extraction to analysis	4	0	-	1	0
PCBs		SW846 3545/8082	1 x 8 oz. glass	Cool 4°C (± 2 °C)		4	0	-	1	0
PCB Investigation										
PCBs	Test America Laboratories, Edison NJ	SW846 3541/8082A	1 x 8 oz. glass	Cool 4°C (± 2 °C)	14 days to extract, 40 days from extraction to analysis	45	2	-	3	4

Notes:

1 - The laboratory held NJ certification at the time of analysis for the methods indicated pursuant to N.J.A.C. 7:18.

2 - Trip Blanks applicable to VOCs only.

3 - For soils, field blanks were collected either once per day or 10% of the total number of samples collected, but not more than once per day.

4 - Hexavalent chromium ("Cr⁺⁶") sample analysis included pH and Eh (oxidation reduction potential). The pH and Eh were not be validated, but rather the information was used in the Cr⁺⁶ validation.

MS/MSD - Matrix Spike/Matrix Spike Duplicate

EBs - Equipment Blanks