

Table 1
Summary Boring and Sample Locations
BoRit Asbestos Superfund Site, OU-1
Phase I Remedial Investigation

Field Activity	Task	Boring Location	Sampling Location	Description/ Sampling Frequency	Number of Samples	Analysis	Notes
DPT Drilling	Soil Borings in Asbestos Pile	APSB-01 through APSB-34 (34 total boring locations)	APSB-01 through APSB-04, APSB-08 through APSB-13, APSB-15 through APSB-18, APSB-20 through APSB-21, APSB-23 through APSB-28, APSB-30 through APSB-34. (27 locations)	2 gw 8 surface soil samples 1 bulk soil sample 15 composite soil samples	24 soil 2 gw	Asbestos by PLM for soil samples and TEM for ground water samples	Total samples include one bulk soil sample at APSB20-21 feet bgs **Bulk soil sample contained a multi-colored, continuously changing layer of red, green, gray, and brown soil less than one inch thick. This was the first encounter of such soil sample.**
		APSB-01 through APSB-32 (32 total boring locations)	APSB-01 through APSB-04, APSB-08 through APSB-13, APSB-15 through APSB-18, APSB-20 through APSB-21, APSB-23 through APSB-28, APSB-30 through APSB-32. (25 locations)	2 gw 6 surface soil samples 15 grab soil samples 1 bulk soil sample 15 composite soil samples	37 soil 2 gw	TCL VOCs, SVOCs, Pest/PCBs and TAL Metals	Total samples include one bulk soil sample at APSB20-21 feet bgs **Bulk soil sample contained a multi-colored, continuously changing layer of red, green, gray, and brown soil less than one inch thick. This was the first encounter of such soil sample.**
	Soil Borings in Park	PKSB-01 through PKSB-53 (53 total locations)	PKSB-03 through PKSB-04, PKSB-06, PKSB-08, PKSB-10, PKSB-12 through PKSB-13, PKSB-15, PKSB-19, PKSB-22, PKSB-26, PKSB-29 through PKSB-30, PKSB-33, PKSB-38, PKSB-40, PKSB-44, PKSB-48, PKSB-51, PKSB-53. (20 locations)	5 surface soil samples 15 composite soil samples	20 soil	Asbestos by PLM for soil samples	
		PKSB-01 through PKSB-53 (53 total locations)	PKSB-03 through PKSB-04, PKSB-06, PKSB-08, PKSB-10, PKSB-12 through PKSB-13, PKSB-15, PKSB-19, PKSB-22, PKSB-26, PKSB-29 through PKSB-30, PKSB-33, PKSB-38, PKSB-40, PKSB-44 through PKSB-45, PKSB-48, PKSB-51 through PKSB-53. (22 locations)	5 surface soil samples 20 grab soil samples 15 composite soil samples	40 soil	TCL VOCs, SVOCs, Pest/PCBs and TAL Metals	Total samples include one bulk soil sample at PKSB45-17.3 feet bgs **Bulk soil sample contained a black tar-like material with metal.**
DPT / Hand Auger / Surface Soil Samples	Soil Borings at the Reservoir	RVSB-13 through RVSB-18 (6 total locations)	RVSB-15 through RVSB-18 (4 locations)	Collected soil samples from 4 locations: 3 grab soil samples 3 composite soil samples	6	Asbestos by PLM, TCL VOCs, SVOCs, Pest/PCBs and TAL Metals.	
	Hand Auger Samples at the Reservoir	RVSB-01 through RVSB-12, RVSB-19 through RVSB-24 (18 total locations)	RVSB-01 through RVSB-12, RVSB-19 through RVSB-24. (18 locations)	Collected soil samples from 18 locations: 11 grab soil samples 13 composite soil samples	24		
	Surface Soil Sample at the Reservoir	RVSB-01 through RVSB-27 (27 total locations)	RVSB-04, RVSB-08, RVSB-12, RVSB-17, RVSB-19, RVSB-24, RVSB-25, RVSB-26, RVSB-27. (9 locations)	Collected surface soil samples from 0-3" at 9 locations.	9		
	Surface Soil Sample at the Asbestos Pile	APTF-01 through APTF-03 (3 total locations)	APTF-01 through APTF-03 (3 locations)	Collected surface soil samples from 0-3" at 3 locations.	3		Analyzed soil under or near the transformer for PCBs only.
Surface Soil Samples	Soil borings on other side of Wissahickon from the BoRit Site	OWSB-01 through OWSB-03 (3 total locations)	OWSB-01 through OWSB-03 (3 locations)	Collected one grab sample from 0-3" bgs at each location.	3	Asbestos by PLM, TCL VOCs, SVOCs, Pest/PCBs and TAL Metals	
Floodplain Soil Borings	Soil borings in the floodplain near the Wissahickon and along creeks	CKFP-01 through CKFP-08 (8 total locations)	CKFP-01 through CKFP-08 (8 locations)	Collected floodplain samples from a total of 8 locations at 2 different depths: 7 composite soil samples at 0 - 0.25' 7 grab soil samples 0 - 0.25' 8 composite soil samples at 0.25 - 2' 8 grab soil samples at 0.25 - 2'	30	Asbestos by PLM, TCL VOCs, SVOCs, Pest/PCBs, TOC and TAL Metals	collected only 7 samples at 0 - 0.25' due to location CKFP-06 having layers of woodchip material at that depth.
		CKSB-01 (1 total location)	CKSB-01 (1 location)	Collected soil sample from one location	1	Asbestos by PLM, TCL VOCs, SVOCs, Pest/PCBs and TAL Metals	New sample collected from across south bank of Tannery Run in creek bank directly across from APSB-29.
Piezometer Borings	Piezometer Wells in Park	PKPZ-01 through PKPZ-03 (3 total locations)	PKPZ-01 through PKPZ-03 (3 locations)	Encountered water table during DPT drilling. Installed 3 piezometer wells. Collected ground water samples from 3 locations.	3	Asbestos by TEM, TCL VOCs, SVOCs, Pest/PCBs, and TAL Metals	
	Piezometer Wells in Asbestos Pile	APSB-29/APPZ-01 through APPZ-03 (3 total locations)	APSB-29/APPZ-01 through APPZ-03 (3 locations)	Encountered water table during DPT drilling. Installed 3 piezometer wells. Collected ground water samples from 3 locations.	3	Asbestos by TEM, TCL VOCs, SVOCs, Pest/PCBs, and TAL Metals	

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Sediment Sampling	Sediment samples in Reservoir	RVSD-01 through RVSD-15 (15 total locations)	RVSD-01 through RVSD-15 (15 locations)	Collected sediment samples from 15 locations.	15	Asbestos by PLM, TCL VOCs, SVOCs, Pest/PCBs, TOC, grain size and TAL Metals	
	Sediment samples along creeks- Normal deposition	CKSD-01 through CKSD-08 (8 total locations)	CKSD-01 through CKSD-08 (8 locations)	Collected sediment samples from 8 locations.	8	Asbestos by PLM, TCL VOCs, SVOCs, Pest/PCBs, TOC, grain size and TAL Metals	
	Sediment samples along creeks-heavy deposition	CKSD-09 through CKSD-10, CKSD- 12 (3 total locations)	CKSD-09 through CKSD-10, CKSD-12. (3 locations)	Collected sediment samples from 3 locations.	3	Asbestos by PLM, TCL VOCs, SVOCs, Pest/PCBs, TOC, grain size and TAL Metals	
Surface Water Sampling	Surface water samples along creeks	CKSW-01 through CKSW-08 (8 total locations)	CKSW-01 through CKSW-08 (8 locations)	Collected one surface water sample from each location.	8	Asbestos by TEM, TCL VOCs, SVOCs, Pest/PCBs, and TAL Metals	Water quality parameters included: dissolved oxygen, turbidity, temperature, pH, conductivity and oxidation reduction potential were collected at each sample location.
	Surface water samples from Reservoir	RVSW-01 through RVSW-05 (5 total locations)	RVSW-01 through RVSW-05 (5 locations)	Collected one surface water sample from each location from the bottom of the water column.	5	Asbestos by TEM, TCL VOCs, SVOCs, Pest/PCBs, and TAL Metals	Water quality parameters included: dissolved oxygen, turbidity, temperature, pH, conductivity and oxidation reduction potential were collected by depth at one third of water column and two thirds of water column.
Air Sampling	Personal air sampling during intrusive activities	Boring activities at Park	PE-0001 through PE-0004, PE-0006 through PE-00020, PE-0042 through PE-00044. (22 samples)	Collected 22 total samples.	54 total samples	Asbestos by PCM, if sample measurement exceeds PEL or STEL limits, the sample will be analyzed for TEM.	Collected two personal air samples per day (for an 8-hour time-weighted average and 30 minute exposure limits) during intrusive activities. No PCM samples exceeded PEL or STEL limits.
		Boring activities at Asbestos Pile	PE-00022, PE-00024 through PE-00039, PE-00041, PE-00053 through PE-00054. (20 samples)	Collected 20 total samples.			
		Boring activities at Reservoir	PE-00021, PE-00040, PE-00045 through PE-00048, PE-00051 through PE-00052. (8 samples)	Collected 8 total samples.			
		Boring activities at Creek Flood Plain	PE-00055 through PE-00058 (4 samples)	Collected 4 total samples.			
	Perimeter air sampling during direct push sampling	Boring activities at Park	PA-0001 through PA-00004, PA-0010 through PA-00013, PA-00015 through PA-00018, PA-00020 through PA-00023, PA-00025 through PA-00028, PA-00030 through PA-00033, PA-00065 through PA-00068. (28 samples)	Collected 28 total samples from stationary points.	58 samples analyzed 24 samples archived 82 total samples collected	Asbestos by TEM.	Field measured for particulates. Archived Samples: PA-00065 through PA-00068. (4 samples)
		Boring activities at Asbestos Pile	PA-00040, PA-00042 through PA-00043, PA-00045 through PA-00048, PA-00050 through PA-00053, PA-00055 through PA-00058, PA-00060, PA-00062 through PA-00063, PA-00095 through PA-00098. (22 samples)	Collected 22 total samples from stationary points.			Field measured for particulates.
		Boring activities at Reservoir	PA-00035 through PA-00038, PA-00070 through PA-00073, PA-00075 through PA-00078, PA-00080 through PA-00083, PA-00085 through PA-00088, PA-00090 through PA-00093. (24 samples)	Collected 24 total samples from stationary points.			Field measured for particulates. Archived Samples: PA-00070 through PA-00073, PA-00075 through PA-00078, PA-00080 through PA-00083, PA-00090 through PA-00093. (16 samples)
		Boring activities at Creek Flood Plain	PA-00100 through PA-00103, PA-00105 through PA-00108. (8 samples)	Collected 8 total samples from stationary points.			Field measured for particulates. Archived Samples: PA-00100 through PA-00103. (4 samples)

Notes and Abbreviations:
bgs = Below ground surface
AP = Asbestos pile
CK = Creek
DPT = Direct push technology
FP = Flood plain
ft = feet
GW = Ground water
OW = Other side of the Wissahickon
PA = Perimeter Air
PCM = Asbestos analysis method
PE = Personal Air
PEL = Personal Exposure Limit
Pest/PCBs = Pesticides and Polychlorinated Biphenyls
PK = Park
PLM = Asbestos analysis method
PZ = Piezometer
RV = Reservoir
SB = Soil boring
SD = Sediment
STEL = Short Term Exposure Limit
SVOC = Semi-volatile organic compound
SW = Surface water
TAL = Target Analyte List
TAL = Target Compound List
TEM = Asbestos analysis method
TF = Transformer
TOC = Total organic carbon
VOC = Volatile organic compound