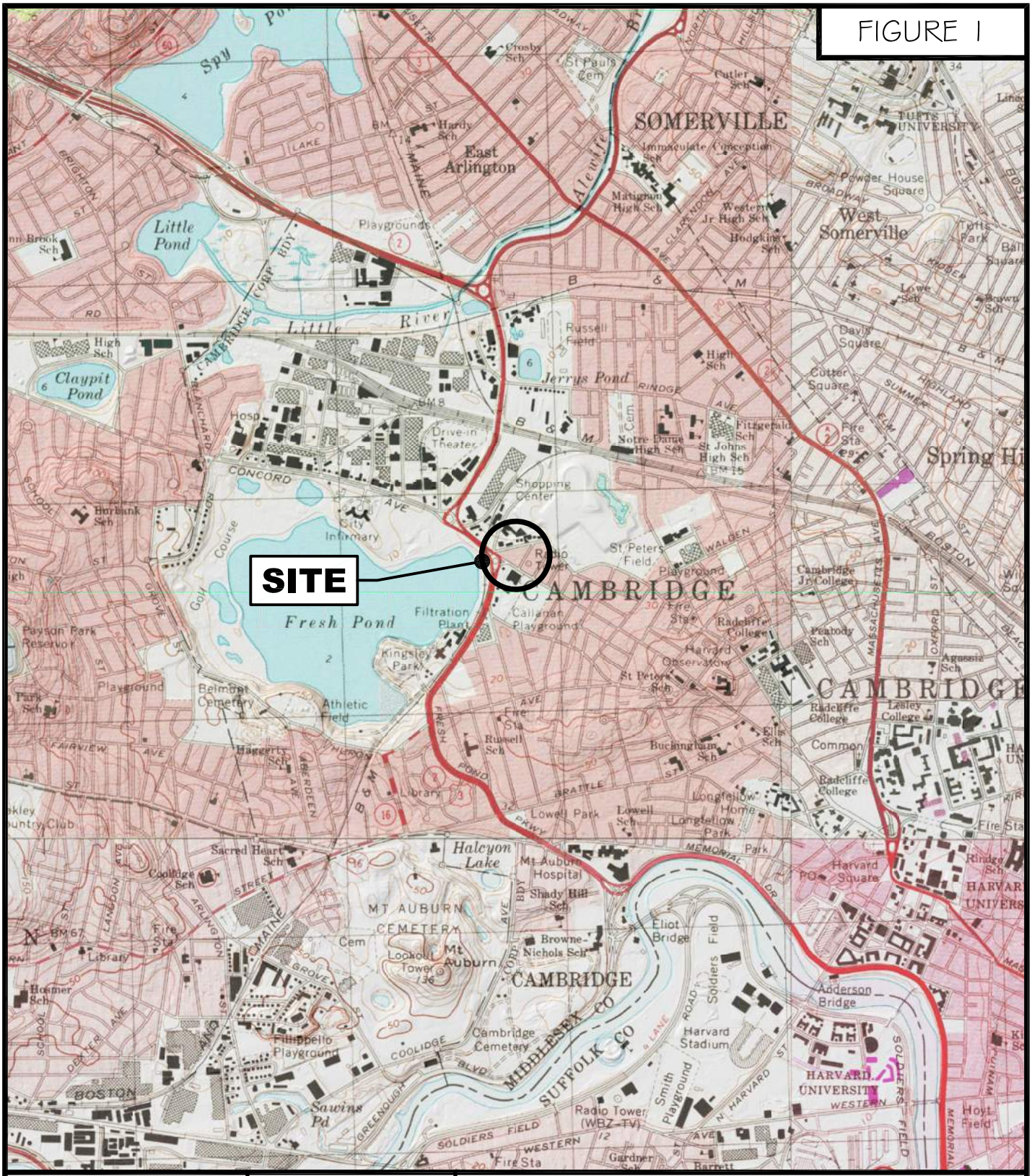
FIGURE 1



McPHAIL ASSOCIATES, LLC
42 3rd Avenue
Burlington, MA 01803
617-868-1420
www.mcphailgeo.com

N

SCALE 1:25,000

PROJECT LOCATION PLAN

9 & 25 BIRCH STREET

& 30 BAY STATE ROAD

CAMBRIDGE MASSACHUSETTS

BAY STATE ROAD (PUBLIC - 50' WIDE)

NORTH

LEGEND

— APPROXIMATE LOCATION OF BORING PERFORMED BY CARR-DEE CORP. ON APRIL 14, 1986 FOR McPHAIL ASSOCIATES, LLC

— APPROXIMATE LOCATION OF BORING PERFORMED BY CARR-DEE CORP. ON APRIL 2, 2026 FOR McPHAIL ASSOCIATES, LLC

(OW) — INDICATES OBSERVATION WELL INSTALLED WITHIN COMPLETED BOREHOLE

REFERENCE: THIS PLAN WAS PREPARED FROM A 20-SCALE DRAWING ENTITLED "EXISTING CONDITIONS PLAN OF LAND" DATED APRIL 3, 2025 BY HANCOCK ASSOCIATES

GRAPHIC SCALE

16 0 16 32 64

APPROXIMATE LIMITS OF SUBJECT PROPERTY

APPROXIMATE LIMITS OF PROPOSED BUILDING

CONCORD (PUBLIC) AVENUE

BIRCH (PUBLIC - 50' WIDE) ROAD

McPHAIL ASSOCIATES, LLC
42 3rd Avenue
Burlington, MA 01803
617-868-1420
www.mcphailgeo.com

9 & 25 BIRCH STREET & 30 BAY STATE ROAD

CAMBRIDGE MASSACHUSETTS

SUBSURFACE EXPLORATION PLAN

FOR

DAWN LAW MANAGEMENT

BY

McPHAIL ASSOCIATES, LLC

Date: MAY 2026	Dwn: F.G.P.	Chkd: J.S.H.	Scale: 1/16" = 1'-0"
Project No: 8230			FIGURE 2

FILE NAME: W:\McPhail-fs-AM\McPhail\Acad\08598230\8230-FO2.dwg

MassDEP - Bureau of Waste Site Cleanup

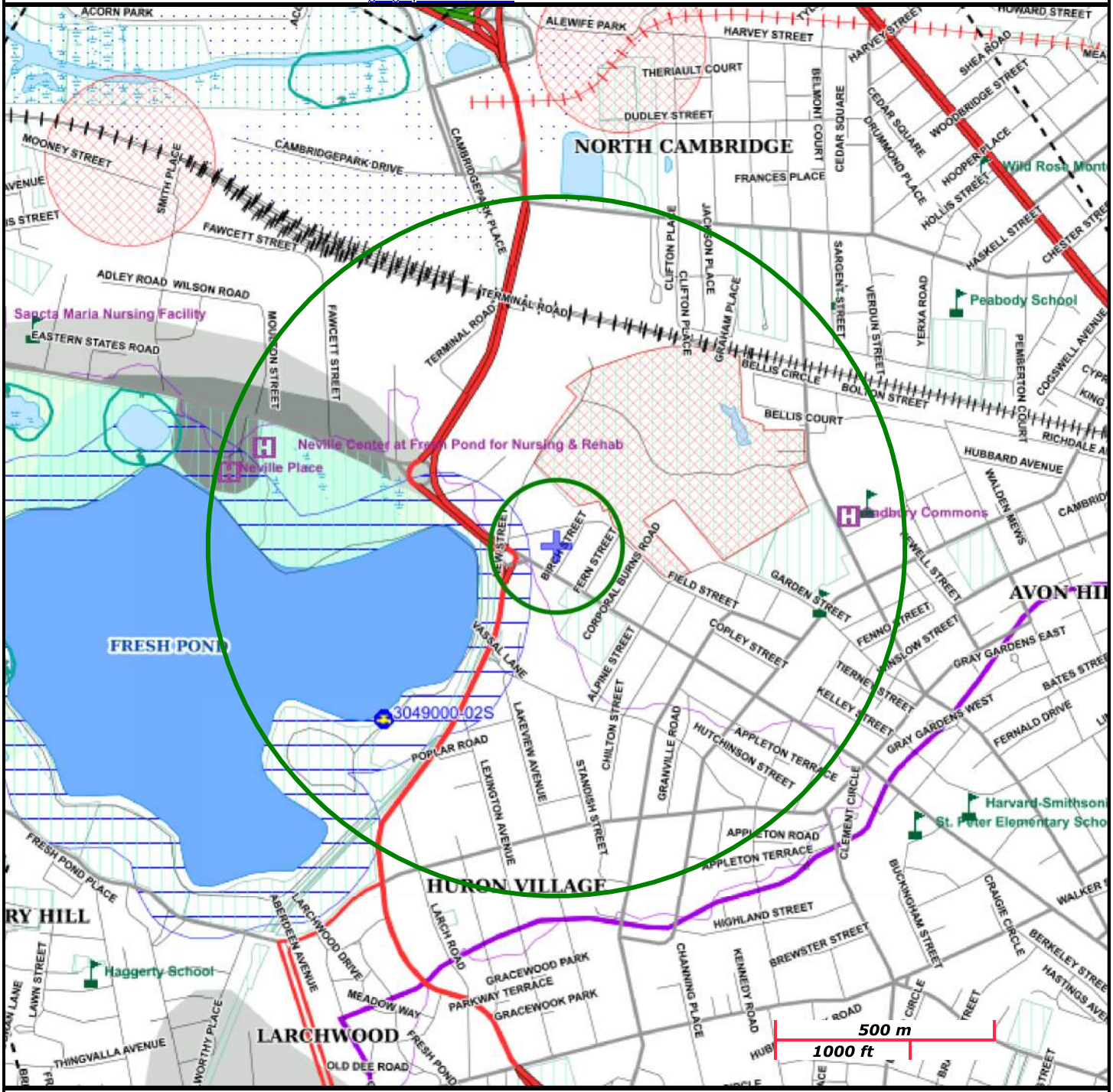
Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:
36 BAY STATE ROAD
36 BAY STATE ROAD CAMBRIDGE, MA

NAD83 UTM Meters:
4694956mN , 323873mE (Zone: 19)
March 6, 2026

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: https://www.mass.gov/orgs/massgis-bureau-of-geographic-information.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam
Aquifers: Medium Yield, High Yield, EPA Sole Source
Non Potential Drinking Water Source Area: Medium, High (Yield)
PWS Protection Areas: Zone II, IWPA, Zone A
Hydrography: Open Water, PWS Reservoir, Tidal Flat
Wetlands: Freshwater, Saltwater, Cranberry Bog
FEMA 100yr Floodplain; Protected Open Space; ACEC
NHESP Pri-Hab of Rare Species; Vernal Pool: Cert., Potential
Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com.

TABLES

TABLE 1
PID HEADSPACE READINGS

9 25 Birch Street 30 Bay State Road
Cambridge, MA
Job No. 8230

EXPLORATION NO.	SAMPLE NO.	SAMPLE DEPTH (FT.)			SAMPLE TYPE	PID READING (ppm)	Visual/Olfactory Evidence of Petroleum Contamination
Background						0.0	
B-1(OW)	S-1	0.5	-	2.0	Fill	0.7	None
	S-2	2.0	-	4.0	Fill	0.1	None
	S-3	4.0	-	6.0	Fill	4.3	None
	S-4	6.0	-	8.0	Fill	0.1	None
	S-5	6.0	-	8.0	Organics	3.3	None
	S-6	10.0	-	12.0	Marine Clay	0.2	None
	S-7	12.0	-	14.0	Marine Clay	0.2	None
	S-8	14.0	-	16.0	Marine Clay	0.3	None
	S-9	20.0	-	22.0	Marine Clay	0.2	None
	S-10	25.0	-	27.0	Marine Clay	0.0	None
	S-11	30.0	-	32.0	Marine Clay	0.0	None
B-2(OW)	S-1	0.0	-	2.0	Fill	0.0	None
	S-2	2.0	-	4.0	Fill	0.3	None
	S-3	4.0	-	6.0	Fill	0.1	None
	S-4	6.0	-	6.5	Fill	0.0	None
	S-4A	6.5	-	7.0	Organics	0.5	None
	S-4B	7.0	-	8.0	Glacial Outwash	0.0	None
	S-5	8.0	-	10.0	Glacial Outwash	0.1	None
	S-6	10.0	-	12.0	Glacial Outwash	0.1	None
	S-7	12.0	-	14.0	Marine Clay	2.7	None
	S-8	14.0	-	16.0	Marine Clay	4.9	None
	S-9	20.0	-	22.0	Marine Clay	1.2	None
	S-10	25.0	-	27.0	Marine Clay	0.0	None
	S-11	30.0	-	32.0	Marine Clay	0.0	None
	S-12	40.0	-	42.0	Marine Clay	0.0	None
	S-13	50.0	-	52.0	Marine Clay	0.0	None
	S-14	60.0	-	62.0	Marine Clay	0.0	None

Equipment: MiniRAE 3000 Photoionization Detector (PID)
PPM = Parts Per Million

TABLE 2
LABORATORY ANALYTICAL RESULTS - SOIL

9 25 Birch Street 30 Bay State Road
Cambridge, MA
Job No. 8230

LOCATION	**MA - MCP 2024 RCS-1 Reportable Concentrations**	**B-101(OW) S-3**	**B-102(OW) S-8**
SAMPLING DATE		**4/2/2026**	**4/2/2026**
LAB SAMPLE ID		**L2618619-01**	**L2618619-02**
SAMPLE TYPE		**Fill**	**Clay**
SAMPLE DEPTH (ft.)		**4-6**	**14-16**
General Chemistry			
Solids, Total (%)		84.7	76.4
MCP Volatile Organics by EPA 5035/8260 (mg/kg)			
Methylene chloride	0.1	ND(0.0046)	ND(0.0057)
1,1-Dichloroethane	0.4	ND(0.00092)	0.062
Chloroform	0.2	ND(0.0014)	ND(0.0017)
Carbon tetrachloride	5	ND(0.00092)	ND(0.0011)
1,2-Dichloropropane	0.1	ND(0.00092)	ND(0.0011)
Dibromochloromethane	0.005	ND(0.00092)	ND(0.0011)
1,1,2-Trichloroethane	0.1	ND(0.00092)	ND(0.0011)
Tetrachloroethene	1	ND(0.00046)	ND(0.00057)
Chlorobenzene	1	ND(0.00046)	ND(0.00057)
Trichlorofluoromethane	1000	ND(0.0037)	ND(0.0046)
1,2-Dichloroethane	0.1	ND(0.00092)	ND(0.0011)
1,1,1-Trichloroethane	30	ND(0.00046)	ND(0.00057)
Bromodichloromethane	0.1	ND(0.00046)	ND(0.00057)
trans-1,3-Dichloropropene	0.01	ND(0.00092)	ND(0.0011)
cis-1,3-Dichloropropene	0.01	ND(0.00046)	ND(0.00057)
1,3-Dichloropropene, Total	0.01	ND(0.00046)	ND(0.00057)
1,1-Dichloropropene		ND(0.00046)	ND(0.00057)
Bromoform	0.1	ND(0.0037)	ND(0.0046)
1,1,2,2-Tetrachloroethane	0.005	ND(0.00046)	ND(0.00057)
Benzene	2	0.00068	ND(0.00057)
Toluene	30	ND(0.00092)	ND(0.0011)
Ethylbenzene	40	ND(0.00092)	ND(0.0011)
Chloromethane	100	ND(0.0037)	ND(0.0046)
Bromomethane	0.5	ND(0.0018)	ND(0.0023)
Vinyl chloride	0.3	ND(0.00092)	**0.32**
Chloroethane	100	ND(0.0018)	ND(0.0023)
1,1-Dichloroethene	3	ND(0.00092)	0.0024
trans-1,2-Dichloroethene	1	ND(0.0014)	ND(0.0017)
Trichloroethene	0.3	0.00051	ND(0.00057)
1,2-Dichlorobenzene	9	ND(0.0018)	ND(0.0023)
1,3-Dichlorobenzene	3	ND(0.0018)	ND(0.0023)
1,4-Dichlorobenzene	0.7	ND(0.0018)	ND(0.0023)
Methyl tert butyl ether	0.1	ND(0.0018)	ND(0.0023)
p/m-Xylene	100	ND(0.0018)	ND(0.0023)
o-Xylene	100	ND(0.00092)	ND(0.0011)
Xylenes, Total	100	ND(0.00092)	ND(0.0011)
cis-1,2-Dichloroethene	0.1	ND(0.00092)	**0.1**
1,2-Dichloroethene, Total		ND(0.00092)	0.1
Dibromomethane	500	ND(0.0018)	ND(0.0023)
1,2,3-Trichloropropane	100	ND(0.0018)	ND(0.0023)
Styrene	3	ND(0.00092)	ND(0.0011)
Dichlorodifluoromethane	1000	ND(0.0092)	ND(0.011)
Acetone	6	ND(0.6)	ND(0.6)
Carbon disulfide	100	ND(0.0092)	ND(0.011)
Methyl ethyl ketone	4	ND(0.0092)	ND(0.011)
Methyl isobutyl ketone	0.4	ND(0.0092)	ND(0.011)
2-Hexanone	100	ND(0.0092)	ND(0.011)
Bromochloromethane		ND(0.0018)	ND(0.0023)
Tetrahydrofuran	500	ND(0.0037)	ND(0.0046)
2,2-Dichloropropane		ND(0.0018)	ND(0.0023)
1,2-Dibromoethane	0.1	ND(0.00092)	ND(0.0011)
1,3-Dichloropropane	500	ND(0.0018)	ND(0.0023)
1,1,1,2-Tetrachloroethane	0.1	ND(0.00046)	ND(0.00057)
Bromobenzene	100	ND(0.0018)	ND(0.0023)
n-Butylbenzene		ND(0.00092)	ND(0.0011)
sec-Butylbenzene		ND(0.00092)	ND(0.0011)
tert-Butylbenzene	100	ND(0.0018)	ND(0.0023)
o-Chlorotoluene	100	ND(0.0018)	ND(0.0023)
p-Chlorotoluene		ND(0.0018)	ND(0.0023)
1,2-Dibromo-3-chloropropane	10	ND(0.0028)	ND(0.0034)
Hexachlorobutadiene	30	ND(0.0037)	ND(0.0046)
Isopropylbenzene	1000	ND(0.00092)	ND(0.0011)
p-Isopropyltoluene	100	ND(0.00092)	ND(0.0011)
Naphthalene	4	ND(0.0037)	ND(0.0046)
n-Propylbenzene	100	ND(0.00092)	ND(0.0011)
1,2,3-Trichlorobenzene		ND(0.0018)	ND(0.0023)
1,2,4-Trichlorobenzene	2	ND(0.0018)	ND(0.0023)
1,3,5-Trimethylbenzene	10	ND(0.0018)	ND(0.0023)
1,2,4-Trimethylbenzene	1000	ND(0.0018)	ND(0.0023)
Diethyl ether	100	ND(0.0018)	ND(0.0023)
Diisopropyl Ether	100	ND(0.0018)	ND(0.0023)
Ethyl-Tert-Butyl-Ether		ND(0.0018)	ND(0.0023)
Tertiary-Amyl Methyl Ether		ND(0.0018)	ND(0.0023)
1,4-Dioxane	0.2	ND(0.074)	ND(0.091)

ND - Not detected in excess of the laboratory reporting limits in ( )
Bold - Exceeds RCS-1 value

TABLE 3
LABORATORY ANALYTICAL RESULTS - GROUNDWATER

9 25 Birch Street 30 Bay State Road
Cambridge, MA
Job No. 8230

LOCATION	**MA - MCP 2024 RCGW-2 Reportable Concentrations**	**B-101 (OW)**	**B-102 (OW)**
SAMPLING DATE		**4/10/2026**	**4/10/2026**
LAB SAMPLE ID		**L2620928-01**	**L2620928-02**
SAMPLE TYPE		**WATER**	**WATER**
SAMPLE DEPTH (ft.)		**-**	**-**
MCP Volatile Organics by GC/MS (mg/l)			
Methylene chloride	2	ND(0.002)	ND(0.002)
1,1-Dichloroethane	2	0.0038	0.0052
Chloroform	0.05	ND(0.001)	ND(0.001)
Carbon tetrachloride	0.002	ND(0.001)	ND(0.001)
1,2-Dichloropropane	0.003	ND(0.001)	ND(0.001)
Dibromochloromethane	0.02	ND(0.001)	ND(0.001)
1,1,2-Trichloroethane	0.9	ND(0.001)	ND(0.001)
Tetrachloroethene	0.02	ND(0.001)	ND(0.001)
Chlorobenzene	0.2	ND(0.001)	ND(0.001)
Trichlorofluoromethane	100	ND(0.002)	ND(0.002)
1,2-Dichloroethane	0.005	0.001	ND(0.001)
1,1,1-Trichloroethane	4	ND(0.001)	ND(0.001)
Bromodichloromethane	0.006	ND(0.001)	ND(0.001)
trans-1,3-Dichloropropene	0.01	ND(0.0004)	ND(0.0004)
cis-1,3-Dichloropropene	0.01	ND(0.0004)	ND(0.0004)
1,3-Dichloropropene, Total	0.01	ND(0.0004)	ND(0.0004)
1,1-Dichloropropene		ND(0.002)	ND(0.002)
Bromoform	0.7	ND(0.002)	ND(0.002)
1,1,2,2-Tetrachloroethane	0.009	ND(0.001)	ND(0.001)
Benzene	1	0.0042	ND(0.0005)
Toluene	40	ND(0.001)	0.0023
Ethylbenzene	5	ND(0.001)	ND(0.001)
Chloromethane	10	0.005	0.0049
Bromomethane	0.007	ND(0.002)	ND(0.002)
Vinyl chloride	0.002	**0.051**	**0.019**
Chloroethane	10	0.17	ND(0.002)
1,1-Dichloroethene	0.08	ND(0.001)	ND(0.001)
trans-1,2-Dichloroethene	0.09	ND(0.001)	ND(0.001)
Trichloroethene	0.005	ND(0.001)	ND(0.001)
1,2-Dichlorobenzene	2	ND(0.001)	ND(0.001)
1,3-Dichlorobenzene	6	ND(0.001)	ND(0.001)
1,4-Dichlorobenzene	0.06	ND(0.001)	ND(0.001)
Methyl tert butyl ether	5	ND(0.002)	ND(0.002)
p/m-Xylene	3	ND(0.002)	ND(0.002)
o-Xylene	3	ND(0.001)	ND(0.001)
Xylenes, Total	3	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.02	0.0064	0.0055
1,2-Dichloroethene, Total		0.0064	0.0055
Dibromomethane	50	ND(0.002)	ND(0.002)
1,2,3-Trichloropropane	10	ND(0.002)	ND(0.002)
Styrene	0.1	ND(0.001)	ND(0.001)
Dichlorodifluoromethane	100	ND(0.002)	ND(0.002)
Acetone	50	ND(0.005)	ND(0.005)
Carbon disulfide	10	ND(0.002)	ND(0.002)
Methyl ethyl ketone	50	ND(0.005)	ND(0.005)
Methyl isobutyl ketone	50	ND(0.005)	ND(0.005)
2-Hexanone	10	ND(0.005)	ND(0.005)
Bromochloromethane		ND(0.002)	ND(0.002)
Tetrahydrofuran	50	ND(0.002)	ND(0.002)
2,2-Dichloropropane		ND(0.002)	ND(0.002)
1,2-Dibromoethane	0.002	ND(0.002)	ND(0.002)
1,3-Dichloropropane	50	ND(0.002)	ND(0.002)
1,1,1,2-Tetrachloroethane	0.01	ND(0.001)	ND(0.001)
Bromobenzene	10	ND(0.002)	ND(0.002)
n-Butylbenzene		ND(0.002)	ND(0.002)
sec-Butylbenzene		ND(0.002)	ND(0.002)
tert-Butylbenzene	10	ND(0.002)	ND(0.002)
o-Chlorotoluene	10	ND(0.002)	ND(0.002)
p-Chlorotoluene		ND(0.002)	ND(0.002)
1,2-Dibromo-3-chloropropane	1	ND(0.002)	ND(0.002)
Hexachlorobutadiene	0.05	ND(0.0006)	ND(0.0006)
Isopropylbenzene	100	ND(0.002)	ND(0.002)
p-Isopropyltoluene	10	ND(0.002)	ND(0.002)
Naphthalene	0.7	ND(0.002)	ND(0.002)
n-Propylbenzene	10	ND(0.002)	ND(0.002)
1,2,3-Trichlorobenzene		ND(0.002)	ND(0.002)
1,2,4-Trichlorobenzene	0.2	ND(0.002)	ND(0.002)
1,3,5-Trimethylbenzene	1	ND(0.002)	ND(0.002)
1,2,4-Trimethylbenzene	100	ND(0.002)	ND(0.002)
Diethyl ether	10	ND(0.002)	ND(0.002)
Diisopropyl Ether	10	ND(0.002)	ND(0.002)
Ethyl-Tert-Butyl-Ether		ND(0.002)	ND(0.002)
Tertiary-Amyl Methyl Ether		ND(0.002)	ND(0.002)
1,4-Dioxane	5	ND(0.25)	ND(0.25)
SUM		0.2414	0.0369

ND - Not detected in excess of the laboratory reporting limits in ( )
Bold - Exceeds RCGW-2 value

Project:	9 & 25 Birch Street & 30 Bay State Road	**Job #:**	8320
Location:	9 & 25 Birch Street & 30 Bay State Road	**Date Started:**	04-02-2026
City/State:	Cambridge, MA	**Date Finished:**	04-02-2026

Boring No. B-101(OW)

Contractor:	Carr-Dee Corp.	**Casing Type:**	HSA/4" I.D Casing
Driller/Helper:	Steve/Frank	**Casing Hammer/Drop:**	300lbs/24in
Logged By/Reviewed By:	AJT	**Sampler Size/Type:**	1-3/8" I.D Split Spoon
Surface Elevation (ft):	21.53 ft	**Sampler Hammer/Drop:**	140lbs/30in

Groundwater Observations

Date	Depth (ft)	Elev (ft)
04-02-2026	5.8	15.73
04-06-2026	6.46	15.07
04-10-2026	6.56	14.97

Depth (ft)	Elev. (ft)	Symbol	Stratum	TVOC (ppm)	N-Value RQD	Sample No.	Pen/Rec (in)	Depth (ft)	Blows/6" Min/ft	Sample Description and Boring Notes
	21.53		Ground surface EL 21.53 ft							
0	21		ASPHALT 0.5 ft							
1	20		EL 21.03 ft FILL	0.7	4	S-1	18/14	0.5 - 2	3 2 2	Very loose to loose, brown, silty SAND and GRAVEL, with brick, glass, and asphalt. (FILL)
2	19			0.1	4	S-2	24/10	2 - 4	2 2 2 3	Very loose to loose, red-brown, SAND and GRAVEL, some silt, with brick. (FILL)
3	18									
4	17			4.3	6	S-3	24/6	4 - 6	2 4 4 5	Loose, red-brown, silty SAND and GRAVEL. (FILL)
5	16									
6	15			0.1	1	S-4	18/10	6 - 8	1 1 WOR 1	Very loose, gray brown, SAND, some silt, some gravel. (FILL) NOTE: Sample is wet
7	14		8 ft							
8	13		EL 13.53 ft ORGANIC SILT	3.3	2	S-5	24/13	8 - 10	1 WOR 2 4	Soft, dark brown, SILT, trace sand, with organic fibers. (ORGANIC SILT)
9	12		10 ft							
10	11		EL 11.53 ft MARINE CLAY	0.2	9	S-6	24/12	10 - 12	3 4 5 6	Stiff, gray, silty CLAY, with organic fibers. (MARINE CLAY)
11	10									
12	9			0.2	14	S-7	24/18	12 - 14	8 8 6 6	Stiff, gray, CLAY, trace silt. (MARINE CLAY)NOTE: Switched to 4" I.D Casing.
13	8									
14	7			0.3	4	S-8	24/22	14 - 16	1 2 2 2	Soft to firm, gray, CLAY, some silt. (MARINE CLAY)
15	6									
16	5									
17	4									
18	3									
19	2									
20	1			0.2	3	S-9	24/20	20 - 22	1 1 2 2	Soft, gray, CLAY, some silt. (MARINE CLAY)
21	0									
22	-1									
23										

Granular Soils

Blows/ft.	Density
0-4	V. Loose
4-10	Loose
10-30	Compact
30-50	Dense
>50	V. Dense

Cohesive Soils

Blows/ft.	Consistency
<2	V. Soft
2-4	Soft
4-8	Firm
8-15	Stiff
15-30	V. Stiff
>30	Hard

Soil Component

Descriptive Term	Proportion of Total
"Trace"	0-10%
"Some"	10-20%
Adjective (e.g. Sandy, Silty)	20-35%
"And"	35-50%

Soil containing three components each of which comprise at least 25% of the total are classified as "A Well-Graded Mixture Of"

Notes:

McPHAIL

McPhail Associates, LLC
42 3rd Avenue
Burlington, MA 01803
TEL: 617-868-1420

RSLog / 1.2 McPhail Boring Log (Project Info Headers) / mcphail-associates-llc / Office1 / 05-12-2026 @ 11:02 AM

Project:	9 & 25 Birch Street & 30 Bay State Road	**Job #:**	8320
Location:	9 & 25 Birch Street & 30 Bay State Road	**Date Started:**	04-02-2026
City/State:	Cambridge, MA	**Date Finished:**	04-02-2026

Boring No.
B-101(OW)

Contractor:	Carr-Dee Corp.	**Casing Type:**	HSA/4" I.D Casing
Driller/Helper:	Steve/Frank	**Casing Hammer/Drop:**	300lbs/24in
Logged By/Reviewed By:	AJT	**Sampler Size/Type:**	1-3/8" I.D Split Spoon
Surface Elevation (ft):	21.53 ft	**Sampler Hammer/Drop:**	140lbs/30in

Groundwater Observations

Date	Depth (ft)	Elev (ft)
04-02-2026	5.8	15.73
04-06-2026	6.46	15.07
04-10-2026	6.56	14.97

Depth (ft)	Elev. (ft)	Symbol	Stratum	TVOC (ppm)	N-Value RQD	Sample No.	Pen/Rec (in)	Depth (ft)	Blows/6" Min/ft	Sample Description and Boring Notes
23	-2		MARINE CLAY							
24	-3									
25	-4			0.0	3	S-10	24/22	25 - 27	1 1 2 2	Soft, gray, CLAY. (MARINE CLAY)
26	-5									
27	-6									
28	-7									
29	-8									
30	-9			0.0	WOH	S-11	24/24	30 - 32	WOH	Very soft, gray, CLAY, trace silt. (MARINE CLAY)
31	-10									
32	-11		32 ft EL -10.47 ft Bottom of exploration at 32 ft below ground surface.							
33	-12									
34	-13									
35	-14									
36	-15									
37	-16									
38	-17									
39	-18									
40	-19									
41	-20									
42	-21									
43	-22									
44	-23									
45	-24									
46										

Granular Soils

Blows/ft.	Density
0-4	V. Loose
4-10	Loose
10-30	Compact
30-50	Dense
>50	V. Dense

Cohesive Soils

Blows/ft.	Consistency
<2	V. Soft
2-4	Soft
4-8	Firm
8-15	Stiff
15-30	V. Stiff
>30	Hard

Soil Component

Descriptive Term	Proportion of Total
"Trace"	0-10%
"Some"	10-20%
Adjective (e.g. Sandy, Silty)	20-35%
"And"	35-50%

Soil containing three components each of which comprise at least 25% of the total are classified as "A Well-Graded Mixture Of"

Notes:

McPhail Associates, LLC
42 3rd Avenue
Burlington, MA 01803
TEL: 617-868-1420

RSLog / 1.2 McPhail Boring Log (Project Info Headers) / mcphail-associates-llc / Office1 / 05-12-2026 @ 11:02 AM

Project:	9 & 25 Birch Street & 30 Bay State Road	**Job #:**	8320
Location:	9 & 25 Birch Street & 30 Bay State Road	**Date Started:**	04-02-2026
City/State:	Cambridge, MA	**Date Finished:**	04-02-2026

Boring No. B-102(OW)

Contractor:	Carr-Dee Corp.	**Casing Type:**	HSA/4" I.D Casing
Driller/Helper:	Steve/Frank	**Casing Hammer/Drop:**	300lbs/24in
Logged By/Reviewed By:	AJT	**Sampler Size/Type:**	1-3/8" I.D Split Spoon
Surface Elevation (ft):	21.11 ft	**Sampler Hammer/Drop:**	140lbs/30in

Groundwater Observations

Date	Depth (ft)	Elev (ft)
04-02-2026	3.95	17.16
04-06-2026	6.08	15.03
04-10-2026	6.12	14.99

Depth (ft)	Elev. (ft)	Symbol	Stratum	TVOC (ppm)	N-Value RQD	Sample No.	Pen/Rec (in)	Depth (ft)	Blows/6" Min/ft	Sample Description and Boring Notes
	21.11		Ground surface EL 21.11 ft							
0	21		FILL	0.0	6	S-1	24/15	0 - 2	4 2 4 5	Loose, brown, sandy SILT, some gravel, with glass and organic fibers. (FILL)
1	20									
2	19			0.3	5	S-2	24/6	2 - 4	4 3 2 3	Loose, brown to black, SAND and GRAVEL, some silt, with possible slag, glass, and ash and cinders. (FILL)
3	18									
4	17			0.1	2	S-3	24/9	4 - 6	3 1 1 WOH	Very loose, brown to black, SAND and GRAVEL, trace silt, with glass and organic fibers. (FILL)
5	16									
6	15		6.5 ft	0.0	WOH	S-4	6/5	6 - 6.5	1	Very loose, gray-brown, silty fine SAND to fine sandy SILT. (FILL)
7	14		EL 14.61 ft ORGANIC DEPOSIT 7 ft	0.5	WOH	S-4a	6/5	6.5 - 7	WOR	
8	13		EL 14.11 ft ALLUVIUM	0.0	7	S-4b	12/10	7 - 8	4 7	Very loose, gray-brown, SILT and SAND, with organic fibers. (ORGANIC SILT)
9	12			0.1	10	S-5	24/18	8 - 10	6 5 5 6	Loose, gray, silty fine SAND, some gravel. (ALLUVIUM)
10	11									Loose to compact, gray-brown, stratified silty fine SAND. (ALLUVIUM)
11	10			0.1	5	S-6	24/10	10 - 12	3 3 2 2	Loose, gray, silty fine SAND, trace clay. (ALLUVIUM) NOTE: Clay in tip of split spoon. Switched to 4" I.D CasingS
12	9		12 ft EL 9.11 ft MARINE CLAY	2.7	3	S-7	24/15	12 - 14	2 1 2 3	Soft, gray, sandy CLAY, trace silt. (MARINE CLAY) NOTE: Switched to 4" ID Casing.
13	8									
14	7			4.9	3	S-8	24/22	14 - 16	1 1 2 2	Soft, gray, silty CLAY, trace sand. (MARINE CLAY)
15	6									
16	5									
17	4									
18	3									
19	2									
20	1			1.2	2	S-9	24/20	20 - 22	1 1 1 1	Very soft, gray, CLAY, trace silt. (MARINE CLAY)
21	0									
22	-1									
23										

Granular Soils

Blows/ft.	Density
0-4	V. Loose
4-10	Loose
10-30	Compact
30-50	Dense
>50	V. Dense

Cohesive Soils

Blows/ft.	Consistency
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4-8	Firm
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City/State:	Cambridge, MA	**Date Finished:**	04-02-2026

Boring No.
B-102(OW)

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Depth (ft)	Elev. (ft)	Symbol	Stratum	TVOC (ppm)	N-Value RQD	Sample No.	Pen/Rec (in)	Depth (ft)	Blows/6" Min/ft	Sample Description and Boring Notes
			(continued)							
23	-2		MARINE CLAY							
24	-3									
25	-4									
26	-5			0.0	2	S-10	24/22	25 - 27	WOH 1 1 1	Very soft, gray, CLAY, trace silt. (MARINE CLAY)
27	-6									
28	-7									
29	-8									
30	-9									
31	-10			0.0	WOH	S-11	24/18	30 - 32	WOH	Very soft, gray, CLAY, trace silt. (MARINE CLAY)
32	-11									
33	-12									
34	-13									
35	-14									
36	-15									
37	-16									
38	-17									
39	-18									
40	-19									
41	-20			0.0	4	S-12	24/18	40 - 42	1 2 2 3	Soft to firm, gray, CLAY, trace silt. (MARINE CLAY)
42	-21									
43	-22									
44	-23									
45	-24									
46										

Granular Soils

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Depth (ft)	Elev. (ft)	Symbol	Stratum	TVOC (ppm)	N-Value RQD	Sample No.	Pen/Rec (in)	Depth (ft)	Blows/6" Min/ft	Sample Description and Boring Notes
			(continued)							
46	-25		MARINE CLAY							
47	-26									
48	-27									
49	-28									
50	-29									
51	-30			0.0	2	S-13	24/20	50 - 52	1 1 1 1	Very soft, gray, CLAY, trace silt. (MARINE CLAY)
52	-31									
53	-32									
54	-33									
55	-34									
56	-35									
57	-36									
58	-37									
59	-38									
60	-39									
61	-40			0.0	WOH	S-14	24/20	60 - 62	WOH	Very soft, gray, CLAY, trace silt. (MARINE CLAY)
62	-41		62 ft EL -40.89 ft							
63	-42		Bottom of exploration at 62 ft below ground surface.							
64	-43									
65	-44									
66	-45									
67	-46									
68	-47									
69										

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