

Environmental Monitoring & Mitigation Plan

Breakneck Hill Farm Dumping Site

**Breakneck Hill Road
Southborough, Massachusetts**

August 2023

Prepared For:

Town of Southborough
Conservation Commission
17 Common Street
Southborough, Massachusetts 01772

Prepared By:

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1.0 Introduction

On behalf of the Town of Southborough (the “Town”), TRC Environmental Corporation (TRC) has prepared this *Environmental Monitoring and Mitigation Plan* for cleanup activities that will be performed to remove waste at the Town-owned portion of the Breakneck Hill Farm Dumping Site (the “Site”) located at Breakneck Hill Road in Southborough, Massachusetts. Components of this *Environmental Monitoring and Mitigation Plan* will be implemented by TRC and the cleanup contractors that will be selected by the Town through a bidding process during cleanup of the Site.

Prior to the Town’s ownership, solid waste and asbestos containing materials (ACM) were dumped and/or buried at the Site. In April 2023, the Town submitted the April 2023 *Cleanup Plan* to the Massachusetts Department of Environmental Protection (MassDEP), which outlines proposed cleanup activities at the Site. The April 2023 *Cleanup Plan* was approved by MassDEP on May 31, 2023. Components of the approved *Cleanup Plan* include Site preparation activities, cleanup operations, and Site restoration work.

In accordance with the approved *Cleanup Plan*, this *Environmental Monitoring and Mitigation Plan* has been prepared to outline environmental monitoring and mitigation activities for the Site cleanup. Construction activities at the Site have the potential to generate fugitive dust, vapors, and odors. Accordingly, TRC (Engineer and environmental field staff) and the cleanup contractors (to be selected by the Town through a bidding process) will implement the environmental monitoring and mitigation activities summarized herein to minimize potential dust, vapor, and odor issues that may arise during Site cleanup to comply with the requirements of MassDEP’s Air Pollution Control Regulations, 310 CMR 7.00. Specifically, this plan describes potential sources for fugitive dust, vapor, and odor, dust control and mitigation procedures, vapor and odor control procedures, air monitoring protocols, and corrective action measures to protect project personnel, the public, and the environment throughout Site cleanup.

2.0 Site Description & Background

The following sections describe existing conditions of the Site and the general area surrounding the Site. In addition, pertinent Site background information is provided below.

2.1 Site Location & Description

The Site is located between Breakneck Hill Road and Woodland Road in Southborough, Massachusetts. The host parcel associated with the Site is identified by the Town of Southborough's Assessor's Department as Breakneck Hill Road, Map 29, Lot 28A. The Site is located at the western-central portion of the host parcel and comprises approximately 1.26 acres. The general location of the Site and host parcel are depicted on **Figure 1**. Existing conditions of the Site and the immediate area surrounding the Site are displayed on **Figure 2**, and the Site boundary is displayed on **Figure 3**.

The Town acquired Map 29, Lot 28A from Raymond Davis on June 20, 1980, which was reportedly comprised of approximately 87.66 acres, currently consisting of conservation land. Solid waste and debris at the Site have been documented to include (but not limited to) old tires, machine parts, rusted 55-gallon drums, asphalt shingles, appliances, heavy equipment, broken ceramics, plastic objects, and general trash.

2.2 Site History & Background

Prior to the Town's acquisition, Davco Farm occupied Map 29, Lot 28A. Mr. Davis, President of Davis Tractor Company, operated the Davco Farm. The farm was home to an apple and peach orchard, an apiary and bee supply business, and a Belted Galloway cattle herd. The Site appears to have been used as dumping ground associated with the Davco Farm between approximately 1966 and 1980.

2.3 Adjoining Properties & General Surrounding Area

The Site is situated in a mixed-use area consisting predominantly of residential and commercial properties. The Site is bordered to the north by conservation land followed by a commercial complex and Route 9 (Turnpike Road); to the east by conservation land followed by residential properties and Woodland Road; to the south by conservation land followed by residential properties and Breakneck Hill Road; and to the west by 60 Breakneck Hill Road followed by 48 Breakneck Hill Road and Breakneck Hill Road.

2.4 Regulatory History & Notification

The Site is currently not identified in the Environmental Protection Agency (EPA) Inventory of Open Dumps or the MassDEP list of Inactive/Closed Landfills and Dumping Grounds. In addition, the Site is currently not listed in MassDEP's Waste Site and Reportable Releases database.

Dumping grounds, open dumps, and illegal disposal of solid waste are prohibited by the Commonwealth of Massachusetts under 310 CMR 19.014. Accordingly, the Town formerly notified the MassDEP Central Regional Office's Solid Waste Management Division via email that a dumping ground was located on a portion of Town-owned property on September 28, 2021.

Following notification, the Town entered into a mutually negotiated *Administrative Consent Order* (ACO) with MassDEP, performed initial solid waste assessment activities, and submitted a *Cleanup Plan* for the Site. MassDEP approved the April 2023 *Cleanup Plan* on May 31, 2023. As specified in the ACO, the Town has 180 days following MassDEP approval of the *Cleanup Plan* to initiate cleanup activities at the Site. Accordingly, Site cleanup is anticipated to begin by November 27, 2023. This *Environmental Monitoring and Mitigation Plan* will be implemented by TRC and the cleanup contractors during cleanup of the Site.

3.0 Known Environmental Conditions & Cleanup Plan Components

The following sections briefly summarize previous assessment activities performed by TRC at the Site, known environmental conditions, and components of the approved *Cleanup Plan*.

3.1 Land Survey & Topography

In June 2021, land surveying activities were conducted at the Site to outline the extent of visually apparent surface waste/debris, document local topography and existing conditions, and overlay the extent of surficial waste/debris on an aerial photograph. Prior to the existing conditions survey, TRC performed a site reconnaissance to stake out the extent of the visually apparent surficial waste/debris, identify the general area of focus for the surveyors, and conduct a photographic survey.

TRC retained Land Planning, Inc. (Land Planning) of Hanson, Massachusetts to survey the wetland flags that were previously placed by others, the perimeter of surficial waste/debris, and the northern and northeastern bank of the pond. In addition, Land Planning collected ground surface elevations to prepare localized topography in 1-foot contours. Based on the Site reconnaissance and survey, the area of visually apparent surficial waste and debris was documented to cover approximately one acre. Existing conditions of the Site and the immediate area surrounding the Site are displayed on **Figure 2**.

Topography at the Site generally slopes to west/northwest and ranges between approximately 340 feet above mean sea level (msl) and 322 feet above msl. As shown on **Figure 2**, topography near the northwestern Site boundary steeply slopes to the northwest towards an intermittent stream.

3.2 Test Pit Installation

Between September 14, 2022 and September 16, 2022, nineteen (19) test pits were installed by Strategic Environmental Services, Inc. (SES) throughout the Site. The test pits were installed using a track-mounted, mini excavator to further evaluate the nature and extent of solid waste at the Site. The test pits were advanced to depths ranging between approximately 4.5 feet below ground surface (bgs) and 8.5 feet bgs. Test pits were terminated due to shallow refusal, lack of solid waste, or excavator constraints. TRC documented the location, dimensions, and contents of each test pit including the types of solid waste and lithology. In addition, TRC collected soil samples from each test pit for logging and screening purposes as described in Section 3.2.1 below.

A significant amount of solid waste was encountered in 11 of the 19 test pits to depths ranging between the ground surface to approximately 7.0 feet bgs. Based on the findings associated with the September 2022 test pitting program, the vertical and horizontal extent of buried solid waste and debris appears to have been defined at the Site. Notwithstanding, the solid waste and debris is not uniformly buried; discrete pockets of

buried solid waste and debris are apparent throughout the Site. Due to access restrictions, the horizontal extent of buried solid waste and debris was not able to be delineated beyond the western property boundary, extending towards the abutting residential property. The test pits installed at the Site generally encountered light-brown to dark-brown silt with varying amount of sand, cobbles, and solid waste. Groundwater was not encountered during the test pitting program to a maximum explored depth of approximately 8.5 feet bgs. No drums, tanks, or other containers housing hazardous waste or materials were encountered at the Site during the September 2022 test pitting program. However, several corroded drums, tanks, and/or other discarded containers were encountered during the test pitting program; these containers were empty, and evidence of releases stemming from the empty containers was not observed. Leachate, sheens and/or OHM seeps were not encountered at the Site during the test pitting program. Test pit locations are depicted on **Figure 3**, and the test pit logs are included as **Appendix A**. In addition, a photographic log is also provided as **Appendix B**.

During the test pitting program, soil samples were collected from the sidewalls and base of each test pit for logging and screening purposes. Intervals exhibiting evidence of chemical/petroleum contamination (if any) were targeted for screening. The soil samples were screened with a photoionization detector (PID) on a parts per million by volume (ppmv) basis to evaluate for the presence of volatile organics. PID headspace readings ranged between 0.0 ppmv and 1.6 ppmv. Furthermore, visual and/or olfactory evidence of contamination was not encountered during the test pitting program. Based on observations made during soil screening activities, no soil samples were retained for laboratory analyses in accordance with the May 2022 *Final Assessment Plan*. The soil screening results are summarized on **Table 1**.

3.3 ACM Survey

In conjunction with the September 2022 test pitting program, a Commonwealth of Massachusetts Department of Labor Standards (DLS) licensed Asbestos Inspector performed a limited ACM survey at the Site. Specifically, the Massachusetts DLS licensed Asbestos Inspector identified and sampled suspect ACM unearthed during the test pitting program and visually inspected other solid waste and debris present on the ground surface throughout the Site. Nine suspect materials including grey cement board, tan boiler bricks, black asphalt based built-up roofing material (2), black felt paper roofing material (2), grey insulation, red wire insulation, and black conduit were identified and sampled as part of the ACM survey. One of the nine suspect materials was unearthed during test pitting activities. Specifically, the suspect tan fire brick was encountered in test pit TP(86,184) at a depth of approximately 3.5 feet bgs. The remaining eight suspect materials were identified during the visual surficial assessment. Three samples were collected from each of the nine suspect materials (resulting in 27 total samples) and submitted to TRC's Industrial Hygiene Laboratory located in Windsor, Connecticut for asbestos analysis via Polarized Light Microscopy (PLM), United State Environmental Protection Agency (EPA) Method 600/R-93/116.

Laboratory analysis of the 27 ACM survey samples detected asbestos greater than 1% in three of the nine suspect materials. Asbestos was detected in the grey cement board at 20% and both of the black asphalt based built-up roofing materials between 3% and 5%. The ACM survey sample locations are displayed on **Figure 3**. The ACM survey analytical results are summarized on **Table 2**, and the associated laboratory analytical report is included as **Appendix C**. The *Limited Asbestos Survey Summary Report* is provided as **Appendix D**.

3.4 Cleanup Plan Components

Components of the approved *Cleanup Plan* include Site preparation activities, cleanup operations, and Site restoration work. Field activities for Site preparation include (but are not limited to) construction of an access road, entrance, and land clearing. Field work for Site cleanup includes excavation and earth working activities, removal of ACM and solid waste, separation of soil from waste, stockpiling and material management, and transportation and disposal of waste.

Based on previous assessment activities, TRC estimates that approximately 2,300 cubic feet (or 85 cubic yards) of ACM comingled with surrounding soil will be bulk loaded and removed during the initial stages of Site cleanup. Environmental monitoring and mitigation activities associated with ACM removal will be specified in a forthcoming *Non-Traditional Asbestos Abatement Work Plan* (NTWP). Once complete, the NTWP will be attached to this *Environmental Monitoring and Mitigation Plan* as **Appendix E**.

Using the average depth of waste encountered at the Site during the test pitting program, TRC estimates that up to 6,375 cubic yards of solid waste/debris comingled with soil is located throughout the Site. Based on observations made during the test pitting program, TRC estimates that approximately 10% to 30% of the dumped volume consists of solid waste and the balance consists of soil and cobbles. Accordingly, excavated soil and cobbles will be separated from the apparent solid waste/debris, as feasible. Site soil and cobbles (not exhibiting signs of contamination) will be staged on Site for reuse as backfill, grading material, and/or rip rap materials, as appropriate. In addition, ferrous and nonferrous metals and rubber tires will be separated from the excavated solid waste/debris. Excavated material generated during Site cleanup will be managed appropriately and either be reused at the Site or transported off Site for disposal/recycling, as necessary.

4.0 Environmental Monitoring & Mitigation Plan

Construction activities at the Site have the potential to generate fugitive dust, vapors, and/or odors. Accordingly, TRC and the cleanup contractors will implement the environmental monitoring and mitigation activities summarized herein to minimize potential dust, vapor, and odor issues that may arise during Site cleanup to comply with the requirements of MassDEP's Air Pollution Control Regulations, 310 CMR 7.00. Environmental monitoring and mitigation activities specific to ACM removal will be provided in a forthcoming NTWP. Once complete, the NTWP will be attached to this *Environmental Monitoring and Mitigation Plan* as **Appendix E**.

The following sections summarize potential sources of fugitive dust, vapors, and odors, mitigation and control procedures, air monitoring protocols, and corrective action measures to protect project personnel, the public, and the environment throughout the project.

4.1 Potential Sources for Fugitive Dust, Vapor, and Odor

Construction activities that have the potential to generate fugitive dust are anticipated to be performed at the Site, within the extent of land clearing, grubbing and construction fencing, and access road extending from Breakneck Hill Road to the Site. These features are displayed on **Figure 4**. Potential sources of fugitive dust include the following:

- Land clearing and grubbing activities;
- Excavation and earth working operations;
- Loading, transportation, and unloading of materials;
- Open excavations;
- Stockpiled materials;
- Access roads and hauling routes; and
- Operation of construction equipment (e.g. trucks, heavy equipment, chainsaws, separators, compactors, etc.).

During the September 2022 test pitting program, noxious vapors or odors were not encountered. Accordingly, these conditions are not anticipated to be encountered during Site cleanup. Unexpected conditions that may generate noxious vapors or odors at the Construction Area include (but are not limited to) the following:

- Contaminated environmental media;
- Drums or other containers housing OHM; and
- Leachate;
- Sheens; and
- OHM seeps.

The dust, vapor, and/or odor control measures that are described in the following sections will be implemented during the Site cleanup, as necessary.

4.2 Air Monitoring

During the cleanup operation, TRC will perform air monitoring to monitor potential fugitive dust emissions using dust monitors (i.e., DustTRAK II Aerosol Monitors or approved equals). Air monitoring shall include, at a minimum, daily monitoring during cleanup and documentation of one upwind and two downwind locations. The air monitoring equipment will be set to a typical breathing zone height and conducted at the construction fence line. The upwind location will represent background conditions at the Construction Area. In accordance with the USEPA National Ambient Air Quality Standard, the dust action level will be $150 \mu\text{g}/\text{m}^3$ for particulates of 10 microns or less (PM-10) when sustained for a 15-minute period. The action levels presented herein are intended as generic dust action levels. The procedures and assumptions presented herein may need to be modified if unexpected conditions are encountered. If the action level is exceeded (difference between background and highest of the downwind readings), the cleanup contractors shall implement the corrective action measures described in Section 4.3 below.

If sources of noxious odors or vapors are encountered during Site cleanup, TRC will utilize supplemental monitoring equipment, including a PID and/or a MultiRAE monitor, as necessary. If PID readings (referenced to benzene) are sustained above 5 parts per million by volume (ppmv) in the breathing zone for at least 15 minutes, the monitor will move to an upwind location for 15 minutes. After 15 minutes, the monitor will return to the original location and measure again. If PID readings remain above 5 ppmv (referenced to benzene) the corrective actions described in Section 4.4 shall be performed to reduce objectional vapors. In the unlikely event that PID readings exceed 50 ppmv (referenced to benzene), work shall cease, the Engineer and contractor's safety officer shall be notified, and additional corrective measures will be evaluated.

4.3 Dust Control Procedures & Corrective Actions

Implementing dust control measures and performing corrective actions are important to protect project workers, the public, and the environment. This section describes dust control measures and best management practices that will be implemented at the Construction Area by the cleanup contractors. To the extent feasible, construction activities will be performed using methods that minimize dust generation. The cleanup contractors are responsible for controlling fugitive dust emissions at the Construction Area during working and non-working hours. Visible dust shall be controlled at all times.

If visible dust is being generated and/or dust monitoring equipment indicates that particulate concentrations exceed the established levels at the downwind boundary of the Construction Area (described above in Section 4.2), the cleanup contractors will apply a water mist to the source of fugitive dust, reducing concentrations of fugitive dust released to ambient air. As necessary, the contractor may apply water mist to the sources of

fugitive dust identified in Section 4.1. Notwithstanding, the contractors shall minimize water usage to the extent feasible to limit Site cleanup and disposal costs. Dust suppression agents shall be limited to water.

When not in use, the cleanup contractors will securely cover stockpiled materials using 10-mil thick (minimum) polyethylene sheeting to prevent fugitive dust emissions. If necessary, the cleanup contractors may install wind barriers around the stockpiles. As feasible, the cleanup contractors shall limit the distances between loading and unloading areas. In addition, the cleanup contractors shall minimize the freefall distance when transferring materials to stockpiled locations.

When hauling material at the Site or driving on access roads, construction workers shall limit the speed of equipment and vehicles to 5 miles per hour (mph). If dust continues to be generated at unacceptable levels, the contractors shall further reduce speed and/or apply a water mist to trafficked paths until acceptable levels are able to be maintained.

The cleanup contractors shall physically remove any soil from equipment and vehicles prior to departing from the Site. The cleanup contractors shall ensure that soil is not tracked beyond the Construction Area. If soil tracking occurs, the cleanup contractors shall immediately remove the soil using appropriate sweeping methods. In addition, the cleanup contractors shall promptly cleanup any spilled materials if spillage occurs, and open-bodied trucks shall be covered when carrying materials generated from the Site prior to departure.

4.4 Vapor and Odor Control Procedures & Corrective Actions

Based on previous assessment activities, noxious vapors and odors are not anticipated to be encountered during Site cleanup. Notwithstanding, if objectionable vapors or odors are encountered during construction, the cleanup contractors shall limit the exposure area by covering the suspect source(s) with reusable covers, foam suppressants, and/or implement other best management practices to reduce these nuisance conditions.

5.0 References

Real-Time Air Monitoring at Construction and Remediation Sites to Estimate Risks of Contaminated Dust Migration prepared by MassDEP dated October 1997.

Solid Waste Management Facility Regulations (310 CMR 19.000) prepared by MassDEP dated February 14, 2014.

Limited Asbestos Survey Summary Report, Solid Waste Assessment, Breakneck Hill Farm Dumping Site, Breakneck Hill Road, Southborough, Massachusetts prepared by TRC Environmental Corporation dated October 3, 2022.

Solid Waste Assessment Summary Report, Breakneck Hill Farm Dumping Site, Breakneck Hill Road, Southborough, Massachusetts prepared by TRC Environmental Corporation dated October 2022.

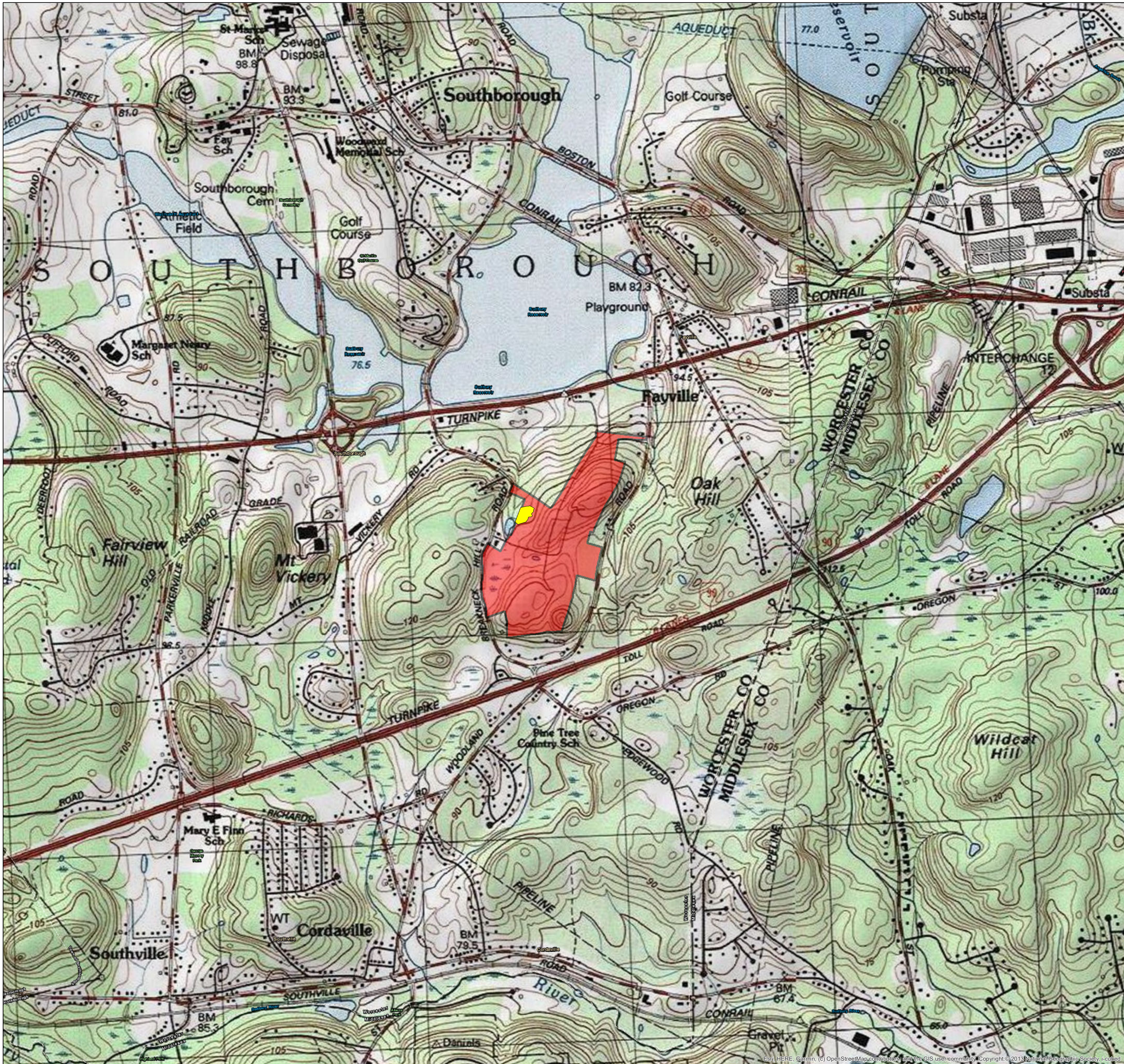
Revised Final Assessment Plan, Breakneck Hill Farm Dumping Site, Breakneck Hill Road, Southborough, Massachusetts prepared by TRC Environmental Corporation dated February 2023.

Revised Solid Waste Assessment Summary Report, Breakneck Hill Farm Dumping Site, Breakneck Hill Road, Southborough, Massachusetts prepared by TRC Environmental Corporation dated February 2023.

Cleanup Plan, Breakneck Hill Farm Dumping Site, Breakneck Hill Road, Southborough, Massachusetts prepared by TRC Environmental Corporation dated April 2023.

Figures

Plot Date: 2/13/2023, 13:02:55 PM by CHARDY - LAYOUT-ANSI.D (22"x34")
Path: S:\PROJECTS\Breakneck Hill\Figure 1 - Site Location Map - Breakneck Hill_02132023.mxd



Legend

- Site Boundary
- Project Parcel Boundary

0 225450 900
Feet

PROJECT: BREAKNECK HILL FARM DUMPING SITE SOUTHBOROUGH, MA 01772	
TITLE: SITE LOCUS	
DRAWN BY: C. HARDY	PROJ. NO.: 277567
CHECKED BY: T. BEVENOUR	
APPROVED BY: T. BEVENOUR	
DATE: FEBRUARY 2023	

FIGURE 1



650 SUFFOLK STREET
LOWELL, MA 01854
PHONE: 978.970.5600

FILE NO.: Figure 1 - Site Location Map - Breakneck Hill_02132023.mxd

Tables

Table 1: Soil Screening Summary
Solid Waste Assessment
September 14, 2022 - September 16, 2022
Breakneck Hill Farm Dumping Site
Breakneck Hill Road
Southborough, Massachusetts

Date	Test Pit Identification	Maximum Depth (fbgs)	PID Headspace Reading Range (ppmv)	Maximum PID Headspace Reading (ppmv)	Sample Collected for Analytical Parameters (excluding asbestos content)?	Sample Identification
9/14/2022	TP (100, 215)	5.5	0.2 - 0.4	0.4	No	NA
9/14/2022	TP (55, 200)	7.0	0.2 - 0.6	0.6	No	NA
9/14/2022	TP (86, 184)	7.5	0.1 - 0.3	0.3	No	NA
9/14/2022	TP (99, 110)	5.5	0.0 - 0.3	0.3	No	NA
9/14/2022	TP (193, 158)	6.0	0.1 - 0.2	0.2	No	NA
9/14/2022	TP (207, 83)	8.5	0.1 - 0.2	0.2	No	NA
9/15/2022	TP (200, 20)	5.0	0.0 - 0.2	0.2	No	NA
9/15/2022	TP (265, 29)	5.0	0.0 - 0.2	0.2	No	NA
9/15/2022	TP (280, 90)	6.0	0.1	0.1	No	NA
9/15/2022	TP (255, 140)	5.0	0.1 - 0.2	0.2	No	NA
9/15/2022	TP (200, 200)	4.5	0.0 - 0.1	0.1	No	NA
9/15/2022	TP (100, 20)	5.0	0.0 - 0.1	0.1	No	NA
9/15/2022	TP (0, -8)	5.0	0.0 - 0.6	0.6	No	NA
9/16/2022	TP (-20, 100)	5.0	0.0 - 0.1 *	0.1 *	No	NA
9/16/2022	TP (-50, 100)	5.0	0.0 - 0.1 *	0.1 *	No	NA
9/16/2022	TP (-100, 127)	5.0	0.0 - 1.6	1.6	No	NA
9/16/2022	TP (20, 55)	6.0	0.5 - 0.9	0.9	No	NA
9/16/2022	TP (225, 137)	5.0	0.2 - 0.6	0.6	No	NA
9/16/2022	TP (95, 47)	5.0	0.1 - 0.2	0.2	No	NA

PID - Photoionization Detector

fbgs - feet below ground surface

ppmv - parts per million by volume (referenced to benzene)

NA - Not Applicable

Samples (if any) were collected if PID headspace readings exceeded 10 ppmv and/or visual or olfactory evidence of contamination was encountered.

* - PID readings were recollected due to erroneous initial readings caused by equipment malfunction.

Refer to the test pit logs for lithology and solid waste descriptions, and refer to the Test Pit & Sample Location Plan for test pit locations and where solid waste was encountered.

Table 2: ACM Sampling Analytical Results Summary
ACM Survey
September 14, 2022 - September 16, 2022
Breakneck Hill Farm Dumping Site
Breakneck Hill Road
Southborough, Massachusetts

Date Collected	Sample Identification	Description	Asbestos %	Asbestos Type	Considered ACM?
9/14/2022	01-A	Grey Cement Board	20%	Chrysotile	Yes
9/14/2022	01-B	Grey Cement Board	NA/PS	NA/PS	Yes
9/14/2022	01-C	Grey Cement Board	NA/PS	NA/PS	Yes
9/14/2022	02-A	Tan Boiler Brick	ND	None	No
9/14/2022	02-B	Tan Boiler Brick	ND	None	No
9/14/2022	02-C	Tan Boiler Brick	ND	None	No
9/14/2022	03-A	Black Roofing, Asphalt Based Built-Up	5%	Chrysotile	Yes
9/14/2022	03-B	Black Roofing, Asphalt Based Built-Up	NA/PS	NA/PS	Yes
9/14/2022	03-C	Black Roofing, Asphalt Based Built-Up	NA/PS	NA/PS	Yes
9/14/2022	04-A	Black Roofing, Felt Paper	ND	None	No
9/14/2022	04-B	Black Roofing, Felt Paper	ND	None	No
9/14/2022	04-C	Black Roofing, Felt Paper	ND	None	No
9/15/2022	05-A	Grey Insulation, Unknown	ND	None	No
9/15/2022	05-B	Grey Insulation, Unknown	ND	None	No
9/15/2022	05-C	Grey Insulation, Unknown	ND	None	No
9/15/2022	06-A	Red/Black Wire Insulation	ND	None	No
9/15/2022	06-B	Red/Black Wire Insulation	ND	None	No
9/15/2022	06-C	Red/Black Wire Insulation	ND	None	No
9/15/2022	07-A	Black Roofing, Felt Paper	ND	None	No
9/15/2022	07-B	Black Roofing, Felt Paper	ND	None	No
9/15/2022	07-C	Black Roofing, Felt Paper	ND	None	No
9/15/2022	08-A	Black Roofing, Asphalt Based Built-Up	3%	Chrysotile	Yes
9/15/2022	08-B	Black Roofing, Asphalt Based Built-Up	NA/PS	NA/PS	Yes
9/15/2022	08-C	Black Roofing, Asphalt Based Built-Up	NA/PS	NA/PS	Yes
9/16/2022	09-A	Black Conduit	ND	None	No
9/16/2022	09-B	Black Conduit	ND	None	No
9/16/2022	09-C	Black Conduit	ND	None	No

Asbestos-Containing Material (ACM) is any material containing more than 1% asbestos

ND - Asbestos was not detected at a concentration exceeding the laboratory reporting limit (1% asbestos)

NA/PS - Not Analyzed/Positive Stop

Appendix A
Photograph Log

Appendix A Photograph Log



Photo 1: Test Pit TP(100,215); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered




Photo 2: Test Pit TP(55,200); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered



Photo 3: Test Pit TP(86,184); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered



Photo 4: Test Pit TP(99,110); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name	
408108	G. Yapto (9/2022)	1 of 4	Town of Southborough	Breakneck Hill Farm Dumping Site	

Appendix A Photograph Log



Photo 5: Test Pit TP(193,158); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered




Photo 6: Test Pit TP(207,83); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered



Photo 7: Test Pit TP(200,20); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered



Photo 8: Test Pit TP(265,29); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name	
408108	G. Yapto (9/2022)	2 of 4	Town of Southborough	Breakneck Hill Farm Dumping Site	

Appendix A Photograph Log



Photo 9: Test Pit TP(255,140); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered




Photo 10: Test Pit TP(100,20); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered



Photo 11: Test Pit TP(0,-8), refer to **Figure 4** for location and **Appendix E** for a description of materials encountered



Photo 12: Test Pit TP(-20,100); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name	
408108	G. Yapto (9/2022)	3 of 4	Town of Southborough	Breakneck Hill Farm Dumping Site	

Appendix A Photograph Log



Photo 13: Test Pit TP(-50,100); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered




Photo 14: Test Pit TP(20,55); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered



Photo 15: Test Pit TP(255,137); refer to **Figure 4** for location and **Appendix E** for a description of materials encountered



Photo 16: Orange discolored surface water located in intermittent stream downgradient of dumping area to northwest of Test Pit TP(100,215)

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name	
408108	G. Yapto (9/2022)	4 of 4	Town of Southborough	Breakneck Hill Farm Dumping Site	

Appendix B

Test Pit Logs



Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
Telephone: 978-970-5600
Fax: 978-453-1995

TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 TEST PIT NUMBER TP(100,215)
LOCATION Breakneck Hill Rd, Southborough, MA DATE 9/14/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean GROUND ELEVATION To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) TOTAL DEPTH (feet) 5.5
PIEZOMETER INSTALLED None TEST PIT DIMENSIONS (feet) 5 x 4
FIELD SCREENING EQUIPMENT Photoionization Detector (PID) TOTAL VOLUME OF SOIL (CY) 4.1
LOGGED BY Brian Burk & Garry Yapto DEPTH TO WATER (Feet) Not Encountered
WEATHER 65F, Sunny
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit.

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some solid waste (i.e., refrigerator, metal panels, empty 55-gallon drum, miscellaneous automobile parts and wire fencing) and sand, trace organics (no odor/staining, dry).		
- 1			Dark-brown SILT, some boulders, cobbles and sand (no odor/staining, dry).		
- 2			Dark-brown SILT, some solid waste (i.e., scrap metal, plastic and bricks), boulders, cobbles and sand (no odor/staining, dry).	0.2 - 0.4	
- 3					
- 4					
- 5			Brown SILT, some sand, boulders and cobbles (no odor/staining, dry).		
-			Test pit terminated at 5.5 feet below ground surface due to safety concerns along slope and capabilities of machine.	0.4	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 TEST PIT NUMBER TP(55,200)
LOCATION Breakneck Hill Rd, Southborough, MA DATE 9/14/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean GROUND ELEVATION To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) TOTAL DEPTH (feet) 7
PIEZOMETER INSTALLED None TEST PIT DIMENSIONS (feet) 3 x 7
FIELD SCREENING EQUIPMENT PID TOTAL VOLUME OF SOIL (CY) 5.4
LOGGED BY Brian Burk & Garry Yapto DEPTH TO WATER (Feet) Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. WEATHER 65F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some solid waste (i.e., scrap metal and plastic), cobbles and sand, trace organics (no odor/staining, dry).		
- 1					
-					
- 2			Dark-brown SILT, some solid waste (i.e., asphalt), cobbles and sand (no odor/staining, dry).	0.4	
-					
- 3				0.6	
-					
- 4			Dark-brown SILT, some cobbles and sand (no odor/staining, dry).	0.3	
-					
- 5					
-					
- 6					
-					
- 7			Test pit terminated at 7 feet below ground surface.	0.2	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 **TEST PIT NUMBER** TP(86,184)
LOCATION Breakneck Hill Rd, Southborough, MA **DATE** 9/14/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean **GROUND ELEVATION** To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) **TOTAL DEPTH (feet)** 7.5
PIEZOMETER INSTALLED None **TEST PIT DIMENSIONS (feet)** 4 x 7.5
FIELD SCREENING EQUIPMENT PID **TOTAL VOLUME OF SOIL (CY)** 8.3
LOGGED BY Brian Burk & Garry Yapto **DEPTH TO WATER (Feet)** Not Encountered
WEATHER 65F, Sunny
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was encountered in test pit (see below).

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some solid waste (i.e., plastic, scrap metal, glass and brick) and sand, trace organics (no odor/staining, dry).		
- 1					
-					
- 2				0.1	
-					
- 3			Light-brown to gray SILT, some solid waste (i.e., plastic, scrap metal, glass and brick) and sand, (no odor/staining, dry).	0.2	
-					
- 4				0.2	Suspect fire brick sampled for potential ACM (samples 02-A through 02-C)
-					
- 5					
-					
- 6					
-					
- 7					Amount of solid waste appears to be reducing with depth; however, could not advance deeper to determine vertical extent of solid waste at TP(86,184) due to equipment and Site constraints.
-			Test pit terminated at 7.5 feet below ground surface.	0.3	



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TEST PIT LOG

PROJECT/NUMBER	408108.2022.0000	TEST PIT NUMBER	TP(99,110)
LOCATION	Breakneck Hill Rd, Southborough, MA	DATE	9/14/2022
CONTRACTOR/PERSONNEL	Strategic Environmental Services/Sean	GROUND ELEVATION	To be determined
EQUIPMENT USED	Bobcat E35 (Mini-Excavator)	TOTAL DEPTH (feet)	5.5
PIEZOMETER INSTALLED	None	TEST PIT DIMENSIONS (feet)	3.5 x 9
FIELD SCREENING EQUIPMENT	PID	TOTAL VOLUME OF SOIL (CY)	6.4
LOGGED BY	Brian Burk & Garry Yapto	DEPTH TO WATER (Feet)	Not Encountered
REMARKS	No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered.		

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some solid waste (i.e., scrap metal, plastic, glass, electrical cables, garden planters, house-hold waste, brick, Styrofoam and hub caps) and sand, trace organics (no odor/staining, dry).		
- 1					
-					
- 2				0.3	
-					
- 3			Dark-brown SILT, some solid waste (i.e., scrap metal, plastic, house-hold waste, Styrofoam and clay pipe) and sand (no odor/staining, dry).	0.2	
- 4					
-					
- 5			Light-brown SILT, some sand, boulders and cobbles (no odor/staining, dry).	0.3	
-			Test pit terminated at 5.5 feet below ground surface.		



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 **TEST PIT NUMBER** TP(193,158)
LOCATION Breakneck Hill Rd, Southborough, MA **DATE** 9/14/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean **GROUND ELEVATION** To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) **TOTAL DEPTH (feet)** 6
PIEZOMETER INSTALLED None **TEST PIT DIMENSIONS (feet)** 6 x 9.5
FIELD SCREENING EQUIPMENT PID **TOTAL VOLUME OF SOIL (CY)** 12.7
LOGGED BY Brian Burk & Garry Yapto **DEPTH TO WATER (Feet)** Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. **WEATHER** 65F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some solid waste (i.e., metal shelving, empty drum, fencing, tires, plastic, glass, cans, brick and concrete block) and sand, trace organics (no odor/staining, dry).		
- 1					
-					
- 2					
-					
- 3			Light-brown SILT, some sand, boulders and cobbles (no odor/staining, dry).	0.1	
-					
- 4				0.2	
-				0.2	
- 5					
-					
- 6			Test pit terminated at 6 feet below ground surface.	0.1	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 TEST PIT NUMBER TP(207,83)
LOCATION Breakneck Hill Rd, Southborough, MA DATE 9/14/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean GROUND ELEVATION To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) TOTAL DEPTH (feet) 8.5
PIEZOMETER INSTALLED None TEST PIT DIMENSIONS (feet) 5 x 9.5
FIELD SCREENING EQUIPMENT PID TOTAL VOLUME OF SOIL (CY) 15
LOGGED BY Brian Burk & Garry Yapto DEPTH TO WATER (Feet) Not Encountered
WEATHER 65F, Sunny
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit.

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some solid waste (i.e., scrap metal, plastic, sheets, cans, fencing, tires, brick, wood debris and concrete block) and sand, trace organics (no odor/staining, dry).		
- 1			Dark-brown SILT, some solid waste (i.e., scrap metal, plastic, sheets, cans, fencing, tires, brick, wood debris and concrete block) and sand (no odor/staining, dry).		
- 2					
- 3				0.1	
- 4				0.1	
- 5			Dark-brown SILT, some sand (no odor/staining, dry).		
- 6					
- 7			Gray SILT, some sand (no odor/staining, dry).		
- 8			Light-brown SILT, some sand (no odor/staining, dry).	0.2	
-			Test pit terminated at 8.5 feet below ground surface.		



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 TEST PIT NUMBER TP(200,20)
LOCATION Breakneck Hill Rd, Southborough, MA DATE 9/15/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean GROUND ELEVATION To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) TOTAL DEPTH (feet) 5
PIEZOMETER INSTALLED None TEST PIT DIMENSIONS (feet) 6.5 x 10
FIELD SCREENING EQUIPMENT PID TOTAL VOLUME OF SOIL (CY) 12
LOGGED BY Brian Burk & Garry Yapto DEPTH TO WATER (Feet) Not Encountered
WEATHER 60F-68F, Sunny
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit.

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some sand, trace organics (no odor/staining, dry).		Solid waste was not encountered in test pit TP(200,20).
- 1			Dark-brown SILT, some sand, boulders and cobbles (no odor/staining, dry).		
- 2				0.0	
- 3				0.2	
- 4					
- 5			Light-brown SILT, some sand (no odor/staining, dry).		
			Test pit terminated at 5 feet below ground surface.	0.0	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 **TEST PIT NUMBER** TP(265,29)
LOCATION Breakneck Hill Rd, Southborough, MA **DATE** 9/15/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean **GROUND ELEVATION** To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) **TOTAL DEPTH (feet)** 5
PIEZOMETER INSTALLED None **TEST PIT DIMENSIONS (feet)** 4 x 9
FIELD SCREENING EQUIPMENT PID **TOTAL VOLUME OF SOIL (CY)** 6.7
LOGGED BY Brian Burk & Garry Yapto **DEPTH TO WATER (Feet)** Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. **WEATHER** 60F-68F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some sand, trace organics (no odor/staining, dry).		Solid waste was not encountered in test pit TP(265,29), excluding trace amount of asphalt at approximately 1' below ground surface.
- 1			Light-brown SILT, some sand, boulders and cobbles, trace asphalt (no odor/staining, dry).		
-					
- 2					
-					
- 3					
-				0.2	
- 4					
-					
- 5			Test pit terminated at 5 feet below ground surface.	0.0	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 TEST PIT NUMBER TP(280,90)
LOCATION Breakneck Hill Rd, Southborough, MA DATE 9/15/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean GROUND ELEVATION To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) TOTAL DEPTH (feet) 6
PIEZOMETER INSTALLED None TEST PIT DIMENSIONS (feet) 4 x 7
FIELD SCREENING EQUIPMENT PID TOTAL VOLUME OF SOIL (CY) 6.2
LOGGED BY Brian Burk & Garry Yapto DEPTH TO WATER (Feet) Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. WEATHER 60F-68F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some sand, trace organics (no odor/staining, dry).		Solid waste was not encountered in test pit TP(280,90).
- 1			Dark-brown SILT, some sand and cobbles (no odor/staining, dry).		
- 2				0.1	
- 3				0.1	
- 4			Gray SILT (with orange striations), some sand (no odor/staining, dry).	0.1	
- 5			Gray SILT (with orange striations), some sand, boulders and cobbles (no odor/staining, dry).		
- 6			Test pit terminated at 6 feet below ground surface on apparent boulders.	0.1	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 TEST PIT NUMBER TP(255,140)
LOCATION Breakneck Hill Rd, Southborough, MA DATE 9/15/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean GROUND ELEVATION To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) TOTAL DEPTH (feet) 5
PIEZOMETER INSTALLED None TEST PIT DIMENSIONS (feet) 3.5 x 9
FIELD SCREENING EQUIPMENT PID TOTAL VOLUME OF SOIL (CY) 5.8
LOGGED BY Brian Burk & Garry Yapto DEPTH TO WATER (Feet) Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. WEATHER 60F-68F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some sand, trace organics (no odor/staining, dry).		Solid waste was not encountered in test pit TP(255,140).
- 1					
-			Light-gray SILT, some sand (no odor/staining, dry).		
- 2					
-			Light-gray SILT (with orange striations), some sand and cobbles (no odor/staining, dry).	0.1 - 0.2	
- 3					
- 4					
-					
- 5			Test pit terminated at 5 feet below ground surface.	0.2	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 **TEST PIT NUMBER** TP(200,200)
LOCATION Breakneck Hill Rd, Southborough, MA **DATE** 9/15/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean **GROUND ELEVATION** To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) **TOTAL DEPTH (feet)** 4.5
PIEZOMETER INSTALLED None **TEST PIT DIMENSIONS (feet)** 4 x 9
FIELD SCREENING EQUIPMENT PID **TOTAL VOLUME OF SOIL (CY)** 6
LOGGED BY Brian Burk & Garry Yapto **DEPTH TO WATER (Feet)** Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. **WEATHER** 60F-68F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some sand, trace organics (no odor/staining, dry).		Solid waste was not encountered in test pit TP(200,200).
- 1			Light-gray SILT, some sand and cobbles (no odor/staining, dry).		
-				0.1	
- 2					
-				0.1	
- 3					
-					
- 4			Light-brown SILT (with orange striations), some sand (no odor/staining, dry).		
-			Test pit terminated at 4.5 feet below ground surface.	0.0	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 **TEST PIT NUMBER** TP(100,20)
LOCATION Breakneck Hill Rd, Southborough, MA **DATE** 9/15/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean **GROUND ELEVATION** To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) **TOTAL DEPTH (feet)** 5
PIEZOMETER INSTALLED None **TEST PIT DIMENSIONS (feet)** 4.5 x 9
FIELD SCREENING EQUIPMENT PID **TOTAL VOLUME OF SOIL (CY)** 7.5
LOGGED BY Brian Burk & Garry Yapto **DEPTH TO WATER (Feet)** Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. **WEATHER** 60F-68F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some sand, trace organics (no odor/staining, dry).		Solid waste was not encountered in test pit TP(100,20).
- 1			Dark-brown SILT, some sand, boulders and cobbles (no odor/staining, dry).		
- 2				0.1	
- 3				0.1	
- 4					
- 5			Test pit terminated at 5 feet below ground surface.	0.0	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 TEST PIT NUMBER TP(0,-8)
LOCATION Breakneck Hill Rd, Southborough, MA DATE 9/15/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean GROUND ELEVATION To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) TOTAL DEPTH (feet) 5
PIEZOMETER INSTALLED None TEST PIT DIMENSIONS (feet) 4 x 9
FIELD SCREENING EQUIPMENT PID TOTAL VOLUME OF SOIL (CY) 6.7
LOGGED BY Brian Burk & Garry Yapto DEPTH TO WATER (Feet) Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. WEATHER 65F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some sand, trace organics (no odor/staining, dry).		Solid waste was not encountered in test pit TP(0,-8).
- 1			Brown SILT, some sand (no odor/staining, dry).		
- 2			Light-brown SILT, some sand, boulders and cobbles (no odor/staining, dry).		
- 3				0.6	
- 4					
- 5			Test pit terminated at 5 feet below ground surface.	0.1	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 **TEST PIT NUMBER** TP(-20,100)
LOCATION Breakneck Hill Rd, Southborough, MA **DATE** 9/16/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean **GROUND ELEVATION** To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) **TOTAL DEPTH (feet)** 5
PIEZOMETER INSTALLED None **TEST PIT DIMENSIONS (feet)** 4 x 10
FIELD SCREENING EQUIPMENT PID **TOTAL VOLUME OF SOIL (CY)** 7.4
LOGGED BY Brian Burk & Garry Yapto **DEPTH TO WATER (Feet)** Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. **WEATHER** 50F-70F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some solid waste (i.e., plastic bags, cans, scrap metal, plastic, brick, wood and glass) and sand, trace organics (no odor/staining, dry).		
- 1					
-			Dark-brown to gray SILT, some sand, boulders and cobbles (no odor/staining, dry).		
- 2				0.1	
-					
- 3					
-					
- 4					
-					
- 5			Test pit terminated at 5 feet below ground surface.	0.1	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 **TEST PIT NUMBER** TP(-50,100)
LOCATION Breakneck Hill Rd, Southborough, MA **DATE** 9/16/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean **GROUND ELEVATION** To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) **TOTAL DEPTH (feet)** 5
PIEZOMETER INSTALLED None **TEST PIT DIMENSIONS (feet)** 6 x 6
FIELD SCREENING EQUIPMENT PID **TOTAL VOLUME OF SOIL (CY)** 6.7
LOGGED BY Brian Burk & Garry Yapto **DEPTH TO WATER (Feet)** Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. **WEATHER** 50F-70F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Brown SILT, some solid waste (i.e., scrap metal, brick, glass and plastic) and sand, trace organics (no odor/staining, dry).		
- 1					
-			Brown SILT, some solid waste (i.e., scrap metal, brick, glass and plastic) and sand (no odor/staining, dry).		
- 2				0.1	
-					
- 3			Light-brown SILT, some sand, boulders and cobbles (no odor/staining, dry).		
-					
- 4					
-					
- 5			Test pit terminated at 5 feet below ground surface.	0.1	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 **TEST PIT NUMBER** TP(-100,127)
LOCATION Breakneck Hill Rd, Southborough, MA **DATE** 9/16/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean **GROUND ELEVATION** To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) **TOTAL DEPTH (feet)** 5
PIEZOMETER INSTALLED None **TEST PIT DIMENSIONS (feet)** 4 x 9
FIELD SCREENING EQUIPMENT PID **TOTAL VOLUME OF SOIL (CY)** 6.7
LOGGED BY Brian Burk & Garry Yapto **DEPTH TO WATER (Feet)** Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. **WEATHER** 60F-68F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Brown SILT, some sand, trace organics (no odor/staining, dry).		Solid waste was not encountered in test pit TP(-100,127).
- 1			Light-brown SILT, some sand (no odor/staining, dry).		
- 2			Light-brown SILT, some sand and cobbles (no odor/staining, dry).	1.6	
- 3					
- 4					
- 5			Light-brown to gray SILT, some sand and cobbles (no odor/staining, dry).		
			Test pit terminated at 5 feet below ground surface.	1.6	



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TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 **TEST PIT NUMBER** TP(20,55)
LOCATION Breakneck Hill Rd, Southborough, MA **DATE** 9/16/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean **GROUND ELEVATION** To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) **TOTAL DEPTH (feet)** 6
PIEZOMETER INSTALLED None **TEST PIT DIMENSIONS (feet)** 4 x 9
FIELD SCREENING EQUIPMENT PID **TOTAL VOLUME OF SOIL (CY)** 8
LOGGED BY Brian Burk & Garry Yapto **DEPTH TO WATER (Feet)** Not Encountered
WEATHER 50F-70F, Sunny
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit.

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some solid waste (i.e., scrap metal, cable, farm equipment, plastic, rubber tires and brick) and sand, trace organics (no odor/staining, dry).		
- 1			Dark-brown SILT, some sand and cobbles (no odor/staining, dry).		
- 2					
- 3			Light-brown SILT, some sand, boulders and cobbles (no odor/staining, dry).	0.5 - 0.7	
- 4					
- 5			Dark-brown SILT, some sand, boulders and cobbles (no odor/staining, dry).	0.9	
- 6			Test pit terminated at 6 feet below ground surface.		



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Fax: 978-453-1995

TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 **TEST PIT NUMBER** TP(255,137)
LOCATION Breakneck Hill Rd, Southborough, MA **DATE** 9/16/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean **GROUND ELEVATION** To be determined
EQUIPMENT USED Bobcat E35 (Mini-Excavator) **TOTAL DEPTH (feet)** 5
PIEZOMETER INSTALLED None **TEST PIT DIMENSIONS (feet)** 4 x 8
FIELD SCREENING EQUIPMENT PID **TOTAL VOLUME OF SOIL (CY)** 5.9
LOGGED BY Brian Burk & Garry Yapto **DEPTH TO WATER (Feet)** Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. **WEATHER** 50F-70F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Brown SILT, some solid waste (i.e., scrap metal and plastic) and sand, trace organics (no odor/staining, dry).		
- 1			Light-brown SILT, some sand, boulders and cobbles (no odor/staining, dry).		
- 2				0.2 - 0.6	
- 3			Dark-brown SILT, some sand, boulders and cobbles (no odor/staining, dry).		
- 4					
- 5			Gray SILT, some sand (no odor/staining, dry).		
			Test pit terminated at 5 feet below ground surface.	0.3	



Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
Telephone: 978-970-5600
Fax: 978-453-1995

TEST PIT LOG

PROJECT/NUMBER 408108.2022.0000 **TEST PIT NUMBER** TP(95,47)
LOCATION Breakneck Hill Rd, Southborough, MA **DATE** 9/16/2022
CONTRACTOR/PERSONNEL Strategic Environmental Services/Sean **GROUND ELEVATION** NA
EQUIPMENT USED Bobcat E35 (Mini-Excavator) **TOTAL DEPTH (feet)** 5
PIEZOMETER INSTALLED None **TEST PIT DIMENSIONS (feet)** 4 x 8
FIELD SCREENING EQUIPMENT PID **TOTAL VOLUME OF SOIL (CY)** 5.9
LOGGED BY Brian Burk & Garry Yapto **DEPTH TO WATER (Feet)** Not Encountered
REMARKS No evidence of contamination was encountered, and no soil samples were collected. Potential ACM was not encountered in test pit. **WEATHER** 50F-70F, Sunny

DEPTH (ft. BGL)	SAMPLE ID.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	NOTES
-			Dark-brown SILT, some solid waste (i.e., scrap metal, plastic and rubber tire) and sand, trace organics (no odor/staining, dry).		
- 1			Light-brown SILT, some sand, boulders and cobbles (no odor/staining, dry).		
- 2				0.1	
- 3					
- 4					
- 5			Test pit terminated at 5 feet below ground surface.	0.2	

Appendix C

Laboratory Analytical Report



BULK ASBESTOS ANALYSIS REPORT

CLIENT: Town of Southborough

Lab Log #: 0060158

Project #: 408108.2022.0000

Date Received: 09/20/2022

Date Analyzed: 09/21/2022

Site: Breakneck Hill, 60 Breakneck Hill Road, Southborough, MA

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Sample Location	Homogeneous Material Description	Other Matrix Materials	Asbestos %	Asbestos Type
01-A	100,180 truck	Grey Cement Board	---	20%	Chrysotile
01-B	100,180 truck	--	--	NA/PS	--
01-C	200,150 surface	--	--	NA/PS	--
02-A	100,180 offset 3.5' depth	Tan Boiler Brick	---	ND	None
02-B	100,180 offset 3.5' depth	Tan Boiler Brick	---	ND	None
02-C	100,180 offset 3.5' depth	Tan Boiler Brick	---	ND	None
03-A	200,150 surface	Black Roofing, Asphalt Based Built-Up	---	5%	Chrysotile
03-B	200,150 surface	--	--	NA/PS	--
03-C	200,150 surface	--	--	NA/PS	--
04-A	200,150 surface	Black Roofing, Felt Paper	---	ND	None
04-B	200,150 surface	Black Roofing, Felt Paper	---	ND	None
04-C	200,150 surface	Black Roofing, Felt Paper	---	ND	None
05-A	100,180 by truck	Grey Insulation, Unknown	95% mineral wool	ND	None
05-B	100,180 by truck	Grey Insulation, Unknown	95% mineral wool	ND	None
05-C	100,180 by truck	Grey Insulation, Unknown	95% mineral wool	ND	None
06-A	By 100,100	Red/Black Wire Insulation	---	ND	None
06-B	By 100,100	Red/Black Wire Insulation	---	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #PLM0007 TX #300354
CO# AL-15020

AIHA-LAP, LLC #100122 CT #PH-0426
VT #AL910359 LA#05011 VA #3333 000283
PHIL# 461 PA#68-03387

ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV #000622
AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Sample Location	Homogeneous Material Description	Other Matrix Materials	Asbestos %	Asbestos Type
06-C	By 100,100	Red/Black Wire Insulation	- - -	ND	None
07-A	20' SW of 200,75	Black Roofing, Felt Paper	90% fibrous glass	ND	None
07-B	20' SW of 200,75	Black Roofing, Felt Paper	90% fibrous glass	ND	None
07-C	20' SW of 200,75	Black Roofing, Felt Paper	90% fibrous glass	ND	None
08-A	20' SW of 200,75	Black Roofing, Asphalt Based Built-Up	- - -	3%	Chrysotile
08-B	20' SW of 200,75	- -	- -	NA/PS	- -
08-C	20' SW of 200,75	- -	- -	NA/PS	- -
09-A	By 0,100	Black Conduit	- - -	ND	None
09-B	By 0,100	Black Conduit	- - -	ND	None
09-C	By 0,100	Black Conduit	- - -	ND	None

ND - asbestos was not detected

Trace - asbestos was observed at level of 1% or less - This is the reporting limit

NA/PS - Not Analyzed / Positive Stop

SNA - Sample Not Analyzed- See Chain of Custody for details


Notes: Asbestos-Containing Material (ACM) is any material containing more than 1% asbestos

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

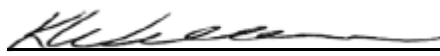
The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2023. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2024. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested, as received by the laboratory.

Analyzed by:


Joel Corso, Laboratory Analyst

Reviewed by:


Kathleen Williamson, Laboratory Manager

Date Issued

09/22/2022

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #PLM0007 TX #300354
CO# AL-15020

AIHA-LAP, LLC #100122 CT #PH-0426
VT #AL910359 LA#05011 VA #3333 000283
PHIL# 461 PA#68-03387

ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980
NJ #CT004

WV #000622
CA #2907



650 Suffolk Street Suite 200 Lowell MA 01854

Client:
Southborough Conservation Commission

Project Name:
Breakneck Hill
Breakneck Hill

60 Breakneck Hill Rd Southborough Ma

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORM

Project Number:
408108.2022.0000

Sampling Technician:
Brian Burk
Mobile App: BSI - HAZMAT Survey
Requested TAT:
3 DAY

Tracking Number:

ASBESTOS BULK SAMPLE INFORMATION




Sample Date	Sample Identification	Material Description	Homogeneous Area	Sample Location	Lab Identification (Lab Use Only)
09/14/22	01-A	Cement Board, Grey	200, 150 Surface, 100, 180 Truck	100, 180 truck	
09/14/22	01-B	Cement Board, Grey	200, 150 Surface, 100, 180 Truck	100, 180 truck	
09/14/22	01-C	Cement Board, Grey	200, 150 Surface, 100, 180 Truck	200, 150 surface	
09/14/22	02-A	Boiler Brick, Tan	N/A	100, 180 offset 3.5' depth	
09/14/22	02-B	Boiler Brick, Tan	N/A	100, 180 offset 3.5' depth	
09/14/22	02-C	Boiler Brick, Tan	N/A	100, 180 offset 3.5' depth	
09/14/22	03-A	Roofing, Asphalt Based Built-Up, Black	200, 150 Surface	200, 150 surface	
09/14/22	03-B	Roofing, Asphalt Based Built-Up, Black	200, 150 Surface	200, 150 surface	
09/14/22	03-C	Roofing, Asphalt Based Built-Up, Black	200, 150 Surface	200, 150 surface	
09/14/22	04-A	Roofing, Felt Paper, Black	200, 150 Surface	200, 150 surface	
09/14/22	04-B	Roofing, Felt Paper, Black	200, 150 Surface	200, 150 surface	
09/14/22	04-C	Roofing, Felt Paper, Black	200, 150 Surface	200, 150 surface	
09/15/22	05-A	Insulation, Unknown, Grey	100, 180 By Truck	100, 180 by truck	
09/15/22	05-B	Insulation, Unknown, Grey	100, 180 By Truck	100, 180 by truck	
09/15/22	05-C	Insulation, Unknown, Grey	100, 180 By Truck	100, 180 by truck	

km

60158

09/15/22	06-A	Wire Insulation, Red	25' SE 100,100	By 100,100
09/15/22	06-B	Wire Insulation, Red	25' SE 100,100	By 100,100
09/15/22	06-C	Wire Insulation, Red	25' SE 100,100	By 100,100
09/15/22	07-A	Roofing, Felt Paper, Black	20' SW Of 200,75	20' SW of 200,75
09/15/22	07-B	Roofing, Felt Paper, Black	20' SW Of 200,75	20' SW of 200,75
09/15/22	07-C	Roofing, Felt Paper, Black	20' SW Of 200,75	20' SW of 200,75
09/15/22	08-A	Roofing, Asphalt Based Built-Up, Black	20' SW Of 200,75	20' SW of 200,75
09/15/22	08-B	Roofing, Asphalt Based Built-Up, Black	20' SW Of 200,75	20' SW of 200,75
09/15/22	08-C	Roofing, Asphalt Based Built-Up, Black	20' SW Of 200,75	20' SW of 200,75
09/16/22	09-A	Conduit , Black	By 0,100	By 0,100
09/16/22	09-B	Conduit , Black	By 0,100	By 0,100
09/16/22	09-C	Conduit , Black	By 0,100	By 0,100

Special Instruction to Laboratory:
N/A

CHAIN OF CUSTODY INFORMATION AND LABORATORY INFORMATION			
Relinquished By:	Date and Time	Received By:	Date and Time
1. (Print): Brian Burk	09/18/2022 3:37 pm America/New_York		9/20/22
			1100
(Sign):			
II. (Print):			
(Sign):			
Email Results To: bdburk@troccompanies.com		Lab Comments:	

Appendix D

Limited Asbestos Survey Summary Report

LIMITED ASBESTOS SURVEY SUMMARY REPORT

Solid Waste Assessment Breakneck Hill Farm Dumping Site Breakneck Hill Road, Southborough, Massachusetts

Prepared for:

Town of Southborough Conservation Commission

Report Date: October 5, 2022

Prepared By:



650 Suffolk Street Suite 200 Lowell MA 01854

TRC Project: 408108.2022.0000

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Appendices

Appendix A – Sample Location Plan

Appendix B – Representative Photographs

Appendix C – Laboratory Analytical Results

Appendix D – Certifications

1.0 Executive Summary

The Town of Southborough (the “Town”) Conservation Commission contracted TRC Environmental Corporation (TRC) to conduct an asbestos survey at the Breakneck Hill Farm Dumping Site located at Breakneck Hill Road in Southborough Massachusetts (the “Site”). The purpose of the asbestos survey was to identify and sample potential asbestos-containing materials (ACM) during solid waste assessment activities, which were performed throughout the Town-owned portion of the Site only. The Site is located on Town-owned conservation land and extends to the west onto an abutting residential property identified as 60 Breakneck Hill Road. Access to 60 Breakneck Hill Road was not provided during the asbestos survey. The ACM survey was conducted in conjunction with the solid waste assessment between September 14, 2022 and September 16, 2022 by Mr. Brian Burk, Commonwealth of Massachusetts Department of Labor Standards certified Asbestos Inspector No. 900513.

Asbestos Containing Materials

ACM are defined by the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), and the Massachusetts Department of Environmental Protection as any material containing more than one percent (>1.0%) asbestos when analyzed using Polarized Light Microscopy (PLM) methods. Laboratory analysis confirmed that asbestos was present within some of the bulk samples collected from the Town-owned portion of the Site at concentrations greater than 1.0%. Accordingly, ACM were identified at the Town-owned portion of the Site (refer to Section 4.1.2 for more details).

Any materials uncovered during excavation or other site activities that are not addressed in this inspection report, or suspect ACM identified in the future, must be sampled by an accredited asbestos inspector prior to any disturbance, or the suspect materials must be treated as ACM.

2.0 Introduction

The Town of Southborough Conservation Commission contracted TRC to conduct an asbestos survey at the Breakneck Hill Farm Dumping Site located at Breakneck Hill Road in Southborough, Massachusetts. The purpose of the survey was to identify and sample suspect ACM unearthed during test pitting activities and other surficial solid waste and debris present throughout the Town-owned portion of the Site. The ACM survey was performed between September 14, 2022 and September 16, 2022 by Mr. Brian Burk, Commonwealth of Massachusetts Department of Labor Standards certified Asbestos Inspector No. 900513.

3.0 Background

3.1 Site Description & History

The Site is located to the east/southeast of 48 Breakneck Hill Road in Southborough, Massachusetts. The Site is heavily vegetated and comprises approximately one acre. The Site is located on two separate tax parcels, Map 29, Lot 28A and Lot 36. The Town acquired Map 29, Lot 28A from Raymond Davis on June 20, 1980, which reportedly comprises approximately 87.66 acres and currently consists of conservation land. The area of dumping is located on the western-central portion of Map 29, Lot 28A, and the balance of the Site extends onto 60 Breakneck Hill Road (Map 29, Lot 36), a western adjoining property that currently is utilized for residential purposes. Refuse within the dump area has been documented to include (but not limited to) old

tires, machine parts, rusted 55-gallon drums, asphalt shingles, appliances, heavy equipment, broken ceramics, plastic objects, and general trash.

Prior to the Town's acquisition, Davco Farm occupied Map 29, Lot 28A. Mr. Davis, President of Davis Tractor Company, operated the Davco Farm. The farm was home to an apple and peach orchard, apiary and bee supply business, and a Belted Galloway cattle herd. Between approximately 1966 and 1980, the Site appears to have been used as dumping ground associated with the Davco Farm.

3.2 Purpose & Scope of Work

An asbestos survey was performed to determine if ACM are present throughout the Town-owned portion of the Breakneck Hill Farm Dumping Site. The survey was performed during a solid waste assessment, which was conducted by TRC between September 14, 2022 and September 16, 2022. TRC performed the asbestos survey throughout accessible areas of Site during solid waste assessment activities, which were performed to assess the horizontal and vertical extent of solid waste throughout the Site. Bulk samples of suspect ACM were collected and submitted for laboratory analysis to determine asbestos content. It should be noted that suspect ACM may be present in other areas throughout the Site that were not identified during the limited ACM survey, buried in the ground surface or in heavily overgrown or similarly inaccessible areas. Limitations are further discussed in Section 6.0.

3.3 Survey Procedures

The asbestos survey was performed using guidelines established by the EPA guidance document "Guidance for Controlling Asbestos-Containing Materials in Buildings" (EPA 5605-85/024), 40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP), Paragraph 61.145, Standard for Demolition and Renovation, EPA AHERA 40 CFR 763 and OSHA 1926.1101 regulations.

A visual survey was conducted to identify the types, locations, and approximate quantities of ACM, presumed ACM (as defined in 29 CFR 1926.1101), and otherwise suspect ACM. Certain building and other materials present throughout the solid waste and debris were assessed as potential ACM. Where feasible, bulk samples of suspect ACM were collected in a random manner and submitted for laboratory analysis to determine asbestos content.

It should be noted that multiple bulk samples were collected from each homogenous area of suspect ACM observed. In accordance with U.S. EPA guidelines, multiple samples were collected from each homogenous area of suspect ACM. Note that if one or more samples within a homogenous area of suspect ACM are positive for asbestos, then all of the suspect ACM must be treated as ACM. During the survey, nine suspect materials were identified, and three samples were collected from each of the nine suspect materials for laboratory analysis, resulting in 27 total samples.

3.4 Analytical Methods

Sample analysis was performed by TRC's Industrial Hygiene Laboratory located in Windsor, Connecticut, using Polarized Light Microscopy with Dispersion Staining (PLM/DS) in accordance with the United States Environmental Protection Agency (US EPA) "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116. The TRC laboratory is accredited

through the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (No. 101424-0). TRC's Massachusetts Analytical Laboratory certification number is AA000052. The laboratory bulk sample analysis report is provided as Appendix B.

4.0 Findings

4.1 Asbestos Containing Materials

Laboratory analytical results indicated that the following materials were positive for asbestos at concentrations greater than 1%:

Asbestos Positive Materials Breakneck Hill Farm Dumping Site Southborough, Massachusetts					
Samples	Material	Location	Percentage / Type	Approx. Quantity	Condition / Material Type / NESHAP Category
01-A 01-B 01-C	Grey Cement Board	200,150 Surface , 100,180 Truck	20% Chrysotile	300 SF	Significantly Damaged/Misc.
03-A 03-B 03-C	Black Roofing Asphalt Based Built-Up	200,150 Surface	5% Chrysotile	200 SF	Significantly Damaged/Misc.
08-A 08-B 08-C	Black Roofing Asphalt Based Built-Up	20' SW of 200,75	3% Chrysotile	1800 SF	Significantly Damaged/Misc.

4.2 Non-Asbestos Containing Materials

Laboratory results of the bulk sampling indicated that none of the following sampled materials contained detectable levels of asbestos:

Asbestos Negative Materials Breakneck Hill Farm Dumping Site Southborough, Massachusetts			
Samples	Material Description	Material Location(s)	Estimated Quantity
02-A 02-B 02-C	Tan Boiler Brick	86,184 Test Pit	N/A
04-A 04-B 04-C	Black Roofing Felt Paper	200,150 Surface	200 SF
05-A 05-B 05-C	Grey Insulation Unknown	100,180 By Truck	10 SF
06-A 06-B 06-C	Red Wire Insulation	25' SE 100,100	10 LF
07-A 07-B 07-C	Black Roofing Felt Paper	20' SW of 200,75	1800 SF
09-A 09-B 09-C	Black Conduit	By 0,100	5 LF

5.0 Conclusions & Recommendations

Results of laboratory analysis confirmed asbestos was identified within three of the suspect materials, as summarized in Section 4.1. The ACM were found to be in poor condition at the time of the inspection. The identified ACM should be securely covered with polyethylene sheeting to restrict access.

In addition, the Massachusetts Department of Environmental Protection (MassDEP) should be notified that ACM have been identified at the Site. Additional assessment activities may be warranted based on MassDEP's determination. Following completion of additional ACM assessment activities (if any), a Massachusetts DLS-certified Project Designer should prepare a work plan for the removal of all identified ACM or assumed ACM that may be disturbed as part of the future Site cleanup plan. Removal of ACM should be performed by a Massachusetts DLS

licensed asbestos abatement contractor, and should be handled, stored, and disposed of according to all local, state, and federal regulations.

Any materials uncovered during additional investigation, excavation, or other site activities that are not addressed in this inspection report, or are considered to be uncharacterized, suspect ACM, must be sampled by an accredited asbestos inspector prior to any disturbance or treated as ACM.

6.0 Limitations

Services performed by TRC were conducted in a manner consistent with “state of the industry” practices, recognizing that even the most comprehensive survey may not detect all suspect materials at the Site. Reasonable measures were taken to detect the presence of normally suspect materials within the survey area; however, other materials present at the Site that are not normally considered to be suspect ACM could also contain asbestos (although unlikely). In addition, other suspect materials could be buried beneath the ground surface that were not unearthed during the test pitting program, and the ground surface at the Site was covered with very dense vegetation, which prohibited a thorough evaluation of all solid waste and debris present throughout the Town-owned portion of the Site. Furthermore, access was not provided to the portion of the Site located on the abutting residential property. Accordingly, additional ACM could be present at the portion of the Site located on the abutting residential property. Given these limitations, TRC cannot act as an insurer or certify that other ACM not identified by the survey are not located at the Site. No expressed or implied representation or warranty is included in our report except that the services were performed within the limit of the scope of work authorized by the client and the encountered Site conditions. This report is not intended for, and may not be utilized as, a bidding document or as an abatement project specification document.

Sincerely,
TRC Environmental Corporation



Brian Burk
Environmental Scientist
MA DLS AI900513



Taylor Bevenour
Senior Environmental Engineer

C:\Users\jgallagher\OneDrive\Documents\Projects\Breakneck Hill\Drawings\Figures\CAD\Revised Solid Waste Assessment Summary Report\Figure 4 - Test Pit & Sample Location Plan.dwg - PLOT DATE: February 06, 2023, 4:14PM - LAYOUT: Figure 3, Site Plan



LEGEND

- WF LIMIT OF WETLANDS AND ASSOCIATED WETLAND FLAGS PLACED BY OTHERS
- xD1— LATERAL EXTENT OF VISUALLY APPARENT DEBRIS AND ASSOCIATED DELINEATION FLAGS PLACED IN JUNE 2021
- (0,0) COMPLETED TEST PIT LOCATION CONTAINING SOLID WASTE & COORDINATES (FEET FROM ORIGIN)
- (0,0) COMPLETED TEST PIT LOCATION NOT CONTAINING SOLID WASTE & COORDINATES (FEET FROM ORIGIN)
- 01-A ASBESTOS-CONTAINING MATERIAL SURVEY SAMPLE LOCATION THAT CONTAINED ASBESTOS
- ⊙ 01-A ASBESTOS-CONTAINING MATERIAL SURVEY SAMPLE LOCATION THAT DID NOT CONTAIN ASBESTOS


NOTES:

FEATURES INCLUDING WETLAND AND DEBRIS DELINEATION FLAGS WERE OBTAINED FROM *EXISTING CONDITIONS PLAN OFF BREAKNECK HILL ROAD, SOUTHBOROUGH, MA* PREPARED BY LAND PLANNING, INC. DATED 6/23/2021

TEST PITS WERE COMPLETED BETWEEN SEPTEMBER 14, 2022 AND SEPTEMBER 16, 2022 USING A TRACK-MOUNTED MINI-EXCAVATOR. MATERIAL EXCAVATED DURING THE TEST PITTING PROGRAM WAS BE UTILIZED AS BACKFILL AND RETURNED TO A SIMILAR LOCATION AND DEPTH FROM WHERE IT ORIGINATED

TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROLS WERE INSTALLED IN THE VICINITY OF EACH TEST PIT LOCATION, AS NECESSARY, PRIOR TO ADVANCEMENT

0 30 60 90 120
SCALE IN FEET
1 in = 30 ft

NO.	BY	DATE	REVISION	APP'D.	
TITLE:					
TEST PIT & SAMPLE LOCATION PLAN					
PROJECT:			BREAKNECK HILL FARM DUMPING SITE SOUTHBOROUGH, MA 01772		
DRAWN BY:		TB	PROJ. NO.:		408108.2023.0000
CHECKED BY:		LA	FIGURE 4		
APPROVED BY:		TB			
DATE:		FEBRUARY 2023			
			 WANNALANCIT MILLS 650 SUFFOLK STREET LOWELL, MA 01854 (978) 970-5500		
FILE NO.:			Figure 4 - Test Pit & Sample Location Plan.dwg		

BREAKNECK HILL BREAKNECK HILL – SUSPECT ASBESTOS CONTAINING MATERIALS PHOTOGRAPHIC LOG

Sample Numbers: 01-A, 01-B, 01-C
Material Description: Cement Board
Material Color: Grey
Accessible Material: Accessible
Reason Inaccessible: N/A
Asbestos Detected: Positive
Asbestos Type: 20% Chrysotile
Homogeneous Area: 200,150 Surface , 100,180 Truck
Total Approximate Quantity: 300 SF
Condition: N/A
Material Type: N/A
NESHAP Category: N/A
Notes: Not Applicable



Sample Numbers: 02-A, 02-B, 02-C
Material Description: Boiler Brick
Material Color: Tan
Accessible Material: Accessible
Reason Inaccessible: N/A
Asbestos Detected: Negative
Asbestos Type: No Asbestos Detected
Homogeneous Area:
Total Approximate Quantity: TBD
Condition: N/A
Material Type: N/A
NESHAP Category: N/A
Notes: Not Applicable



BREAKNECK HILL BREAKNECK HILL – SUSPECT ASBESTOS CONTAINING MATERIALS PHOTOGRAPHIC LOG

Sample Numbers: 03-A, 03-B, 03-C
Material Description: Roofing Asphalt Based Built-Up
Material Color: Black
Accessible Material: Accessible
Reason Inaccessible: N/A
Asbestos Detected: Positive
Asbestos Type: 5% Chrysotile
Homogeneous Area: 200,150 Surface
Total Approximate Quantity: 200 SF
Condition: N/A
Material Type: N/A
NESHAP Category: N/A
Notes: Not Applicable



Sample Numbers: 04-A, 04-B, 04-C
Material Description: Roofing Felt Paper
Material Color: Black
Accessible Material: Accessible
Reason Inaccessible: N/A
Asbestos Detected: Negative
Asbestos Type: No Asbestos Detected
Homogeneous Area: 200,150 Surface
Total Approximate Quantity: 200 SF
Condition: N/A
Material Type: N/A
NESHAP Category: N/A
Notes: Not Applicable



BREAKNECK HILL BREAKNECK HILL – SUSPECT ASBESTOS CONTAINING MATERIALS PHOTOGRAPHIC LOG

Sample Numbers: 05-A, 05-B, 05-C
Material Description: Insulation Unknown
Material Color: Grey
Accessible Material: Accessible
Reason Inaccessible: N/A
Asbestos Detected: Negative
Asbestos Type: No Asbestos Detected
Homogeneous Area: 100,180 By Truck
Total Approximate Quantity: 10 SF
Condition: N/A
Material Type: N/A
NESHAP Category: N/A
Notes: Not Applicable



Sample Numbers: 06-A, 06-B, 06-C
Material Description: Wire Insulation
Material Color: Red
Accessible Material: Accessible
Reason Inaccessible: N/A
Asbestos Detected: Negative
Asbestos Type: No Asbestos Detected
Homogeneous Area: 25' SE 100,100
Total Approximate Quantity: 10 LF
Condition: N/A
Material Type: N/A
NESHAP Category: N/A
Notes: Not Applicable



BREAKNECK HILL BREAKNECK HILL – SUSPECT ASBESTOS CONTAINING MATERIALS PHOTOGRAPHIC LOG

Sample Numbers: 07-A, 07-B, 07-C
Material Description: Roofing Felt Paper
Material Color: Black
Accessible Material: Accessible
Reason Inaccessible: N/A
Asbestos Detected: Negative
Asbestos Type: No Asbestos Detected
Homogeneous Area: 20' SW Of 200,75
Total Approximate Quantity: 1800 SF
Condition: N/A
Material Type: N/A
NESHAP Category: N/A
Notes: Not Applicable



Sample Numbers: 08-A, 08-B, 08-C
Material Description: Roofing Asphalt Based Built-Up
Material Color: Black
Accessible Material: Accessible
Reason Inaccessible: N/A
Asbestos Detected: Positive
Asbestos Type: 3% Chrysotile
Homogeneous Area: 20' SW Of 200,75
Total Approximate Quantity: 1800 SF
Condition: N/A
Material Type: N/A
NESHAP Category: N/A
Notes: Not Applicable



BREAKNECK HILL BREAKNECK HILL – SUSPECT ASBESTOS CONTAINING MATERIALS PHOTOGRAPHIC LOG

Sample Numbers: 09-A, 09-B, 09-C

Material Description: Conduit

Material Color: Black

Accessible Material: Accessible

Reason Inaccessible: N/A

Asbestos Detected: Negative

Asbestos Type: No Asbestos Detected

Homogeneous Area: By 0,100

Total Approximate Quantity: 5 LF

Condition: N/A

Material Type: N/A

NESHAP Category: N/A

Notes: Not Applicable





BULK ASBESTOS ANALYSIS REPORT

CLIENT: Town of Southborough

Lab Log #: 0060158
Project #: 408108.2022.0000
Date Received: 09/20/2022
Date Analyzed: 09/21/2022

Site: Breakneck Hill, 60 Breakneck Hill Road, Southborough, MA

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Sample Location	Homogeneous Material Description	Other Matrix Materials	Asbestos %	Asbestos Type
01-A	100,180 truck	Grey Cement Board	---	20%	Chrysotile
01-B	100,180 truck	--	--	NA/PS	--
01-C	200,150 surface	--	--	NA/PS	--
02-A	100,180 offset 3.5' depth	Tan Boiler Brick	---	ND	None
02-B	100,180 offset 3.5' depth	Tan Boiler Brick	---	ND	None
02-C	100,180 offset 3.5' depth	Tan Boiler Brick	---	ND	None
03-A	200,150 surface	Black Roofing, Asphalt Based Built-Up	---	5%	Chrysotile
03-B	200,150 surface	--	--	NA/PS	--
03-C	200,150 surface	--	--	NA/PS	--
04-A	200,150 surface	Black Roofing, Felt Paper	---	ND	None
04-B	200,150 surface	Black Roofing, Felt Paper	---	ND	None
04-C	200,150 surface	Black Roofing, Felt Paper	---	ND	None
05-A	100,180 by truck	Grey Insulation, Unknown	95% mineral wool	ND	None
05-B	100,180 by truck	Grey Insulation, Unknown	95% mineral wool	ND	None
05-C	100,180 by truck	Grey Insulation, Unknown	95% mineral wool	ND	None
06-A	By 100,100	Red/Black Wire Insulation	---	ND	None
06-B	By 100,100	Red/Black Wire Insulation	---	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #PLM0007 TX #300354
CO# AL-15020

AIHA-LAP, LLC #100122 CT #PH-0426
VT #AL910359 LA#05011 VA #3333 000283
PHIL# 461 PA#68-03387

ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV #000622
AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Sample Location	Homogeneous Material Description	Other Matrix Materials	Asbestos %	Asbestos Type
06-C	By 100,100	Red/Black Wire Insulation	- - -	ND	None
07-A	20' SW of 200,75	Black Roofing, Felt Paper	90% fibrous glass	ND	None
07-B	20' SW of 200,75	Black Roofing, Felt Paper	90% fibrous glass	ND	None
07-C	20' SW of 200,75	Black Roofing, Felt Paper	90% fibrous glass	ND	None
08-A	20' SW of 200,75	Black Roofing, Asphalt Based Built-Up	- - -	3%	Chrysotile
08-B	20' SW of 200,75	- -	- -	NA/PS	- -
08-C	20' SW of 200,75	- -	- -	NA/PS	- -
09-A	By 0,100	Black Conduit	- - -	ND	None
09-B	By 0,100	Black Conduit	- - -	ND	None
09-C	By 0,100	Black Conduit	- - -	ND	None

ND - asbestos was not detected

Trace - asbestos was observed at level of 1% or less - This is the reporting limit

NA/PS - Not Analyzed / Positive Stop

SNA - Sample Not Analyzed- See Chain of Custody for details


Notes: Asbestos-Containing Material (ACM) is any material containing more than 1% asbestos

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

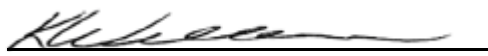
The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2023. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2024. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested, as received by the laboratory.

Analyzed by:


Joel Corso, Laboratory Analyst

Reviewed by:


Kathleen Williamson, Laboratory Manager

Date Issued

09/22/2022

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #PLM0007 TX #300354
CO# AL-15020

AIHA-LAP, LLC #100122 CT #PH-0426
VT #AL910359 LA#05011 VA #3333 000283
PHIL# 461 PA#68-03387

ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980
NJ #CT004

WV #000622
CA #2907



650 Suffolk Street Suite 200 Lowell MA 01854

Client:
Southborough Conservation Commission

Project Name:
Breakneck Hill
Breakneck Hill

60 Breakneck Hill Rd Southborough Ma

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORM

Project Number:
408108.2022.0000

Sampling Technician:
Brian Burk
Mobile App: BSI - HAZMAT Survey

Tracking Number:

Requested TAT:
3 DAY

ASBESTOS BULK SAMPLE INFORMATION

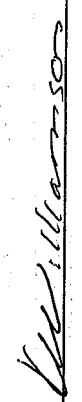

Sample Date	Sample Identification	Material Description	Homogeneous Area	Sample Location	Lab Identification (Lab Use Only)
09/14/22	01-A	Cement Board, Grey	200, 150 Surface, 100, 180 Truck	100, 180 truck	
09/14/22	01-B	Cement Board, Grey	200, 150 Surface, 100, 180 Truck	100, 180 truck	
09/14/22	01-C	Cement Board, Grey	200, 150 Surface, 100, 180 Truck	200, 150 surface	
09/14/22	02-A	Boiler Brick, Tan	N/A	100, 180 offset 3.5' depth	
09/14/22	02-B	Boiler Brick, Tan	N/A	100, 180 offset 3.5' depth	
09/14/22	02-C	Boiler Brick, Tan	N/A	100, 180 offset 3.5' depth	
09/14/22	03-A	Roofing, Asphalt Based Built-Up, Black	200, 150 Surface	200, 150 surface	
09/14/22	03-B	Roofing, Asphalt Based Built-Up, Black	200, 150 Surface	200, 150 surface	
09/14/22	03-C	Roofing, Asphalt Based Built-Up, Black	200, 150 Surface	200, 150 surface	
09/14/22	04-A	Roofing, Felt Paper, Black	200, 150 Surface	200, 150 surface	
09/14/22	04-B	Roofing, Felt Paper, Black	200, 150 Surface	200, 150 surface	
09/14/22	04-C	Roofing, Felt Paper, Black	200, 150 Surface	200, 150 surface	
09/15/22	05-A	Insulation, Unknown, Grey	100, 180 By Truck	100, 180 by truck	
09/15/22	05-B	Insulation, Unknown, Grey	100, 180 By Truck	100, 180 by truck	
09/15/22	05-C	Insulation, Unknown, Grey	100, 180 By Truck	100, 180 by truck	

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09/15/22	06-A	Wire Insulation, Red	25' SE 100,100	By 100,100
09/15/22	06-B	Wire Insulation, Red	25' SE 100,100	By 100,100
09/15/22	06-C	Wire Insulation, Red	25' SE 100,100	By 100,100
09/15/22	07-A	Roofing, Felt Paper, Black	20' SW Of 200,75	20' SW of 200,75
09/15/22	07-B	Roofing, Felt Paper, Black	20' SW Of 200,75	20' SW of 200,75
09/15/22	07-C	Roofing, Felt Paper, Black	20' SW Of 200,75	20' SW of 200,75
09/15/22	08-A	Roofing, Asphalt Based Built-Up, Black	20' SW Of 200,75	20' SW of 200,75
09/15/22	08-B	Roofing, Asphalt Based Built-Up, Black	20' SW Of 200,75	20' SW of 200,75
09/15/22	08-C	Roofing, Asphalt Based Built-Up, Black	20' SW Of 200,75	20' SW of 200,75
09/16/22	09-A	Conduit , Black	By 0,100	By 0,100
09/16/22	09-B	Conduit , Black	By 0,100	By 0,100
09/16/22	09-C	Conduit , Black	By 0,100	By 0,100

Special Instruction to Laboratory:
N/A

CHAIN OF CUSTODY INFORMATION AND LABORATORY INFORMATION			
Relinquished By:	Date and Time	Received By:	Date and Time
1. (Print): Brian Burk	09/18/2022 3:37 pm America/New_York		9/20/22 1100
			
(Sign):			
II. (Print):			
(Sign):			
Email Results To: bdburk@troccompanies.com		Lab Comments:	



THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS

Michael Flanagan
Director

Asbestos Inspector

BRIAN BURK

Eff. Date 08/25/22

Exp. Date 08/25/23

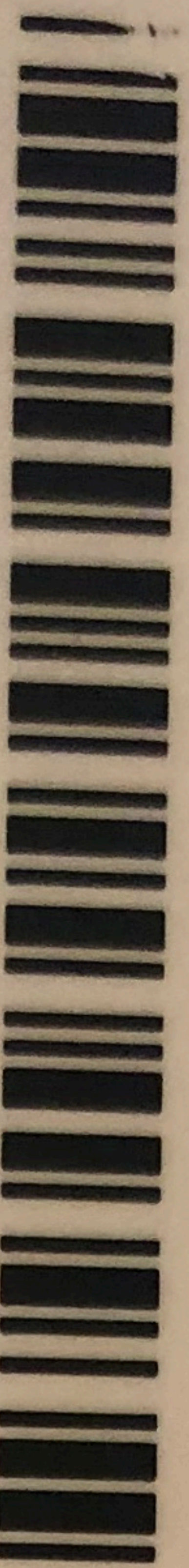
AI900513

Member of C.O.N.E.S.

BOSR

BOS

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Appendix E

Non-Traditional Asbestos Abatement Work Plan (To be completed)