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28 July 2025
File No. 0206711-100

Granby Public Schools
15-B North Granby Road
Granby, CT 06035

Attention: Christopher DeGray, Director of Facilities

Subject: Subsurface Conditions and Geotechnical Data Report
Granby Public Schools – Turf Field and Track
Granby, CT

Ladies and Gentlemen:

This Report provides a summary of the subsurface explorations conducted within the limits of the existing synthetic turf field and track for Granby Public Schools (the School) located at 50 North Granby Road in Granby, Connecticut (subject site). The approximate location of the site is shown on Figure 1.

The purpose of the subsurface investigation program conducted within the limits of the existing turf field and track was to obtain information on subsurface conditions encountered at the site, evaluate site fill thickness, and identify presence of potential void spaces within near surface soils. The work reported herein was undertaken by Haley & Aldrich, Inc. (Haley & Aldrich) in accordance with our proposal dated 30 April 2025 and your subsequent written authorization

Existing Site Conditions

Based on historic aerial photographs, the subject site has been used as an athletic field and track since at least 1992. We understand that the current synthetic turf field and track surface was constructed between 2012 and 2013 and that the proposed site grade changes required for construction in the area of observed track settlement were not significantly greater than the existing site grades. Existing site grades are approximately Elevation (El.) 220 to 225 (NAVD88)[1] in the area of the track and athletic field surface.

Settlement has been observed in various areas on the existing track surface and causes puddling after rain events, creating unsatisfactory performance conditions for athletics.

[1] Elevations in this report are in feet and reference the North American Vertical Datum of 1988 (NAVD88).

Proposed Development

The School intends to replace the existing synthetic field and track surface within the next 5 years to bring them to performance-level standards for Granby Athletics. Athletic lighting structures are also proposed to support athletic events after sunset.

Subsurface Investigation Programs

PREVIOUS HALEY & ALDRICH SUBSURFACE EXPLORATION PROGRAM

Haley & Aldrich previously performed a subsurface investigation program in October 2022 on the site. The purpose was to observe the subsurface conditions specifically underlying the inside lane track in the northeast corner and evaluate the presence of possible void spaces beneath the track surface resulting in observed surficial settlement. On 20 October 2022, Seaboard Drilling, LLC of Chicopee, Massachusetts conducted a total of seven geoprobes designated HA-1 through HA-7. The drilling of geoprobes were observed by Haley & Aldrich.

The designation and approximate locations of the geoprobes are shown on Figure 2 and geoprobe logs are included in Appendix A.

RECENT SUBSURFACE EXPLORATION PROGRAM

The purpose of the recent subsurface investigation program was to collect data beneath the existing turf field and track that may indicate future areas of settlement. Explorations were not performed to support the athletic lighting structures at this time.

The designation and approximate location of subsurface explorations are indicated on Figure 2. The recent subsurface explorations were located in the field by Haley & Aldrich personnel by measuring from existing site features and therefore are considered approximate.

Between 23 and 25 June 2025, G&M Subsurface of North Dighton, Massachusetts conducted a total of twenty-seven (27) geoprobe explorations within the limits of the existing synthetic turf field and track, designated GP-01 through GP-27. GeoSurfaces of Woburn, Massachusetts performed the opening and repair of the synthetic turf surfaces at each of the geoprobe locations on the existing field. The geoprobes were drilled to depths ranging from 10 to 20 (feet) ft below ground surface (bgs) with the use of a track-mounted geoprobe rig and were observed by Haley & Aldrich. Refer to the Geoprobe Logs included in Appendix B for additional information.

Subsurface Conditions

SOIL CONDITIONS

Subsurface soil conditions encountered in the recent subsurface exploration program consisted of the following generalized sequence of subsurface units, listed in descending order of occurrence below ground surface. Refer to Table I – Summary of Subsurface Conditions for a summary of the explorations performed in 2022 and 2025.

Table I: Summary of Subsurface Conditions

Generalized Subsurface Stratum	Depth Top of Stratum (ft)	Stratum Thickness (ft)
Fill	0.3 to 1	0.4 to 15
Glaciofluvial Deposits	0.5 to 13	Not Determined

Note: one or more of the units may be absent at any specific location and may vary in thickness across the subject site. A detailed description of the units encountered is provided below.

Fill - The Fill encountered generally consisted of dark to light brown, red-brown, or gray-brown poorly-graded Sand or silty Sand with varying amounts of silt, gravel, topsoil, wood, and organic soil. At the recent geoprobe locations GP-03, GP-05, GP-13, GP-22, the fill noted buried wood and pockets of dark brown organic soil (topsoil) between 0.5 and 5 ft bgs.

The Fill layer was encountered in each of the geoprobes, except for GP-01, GP-06, and GP-08, and ranged from 0.4 to 15 ft in thickness. A 0.5-ft-thick layer of crushed stone was encountered at ground surface at the locations of geoprobes conducted within the existing synthetic turf field. An approximate 0.1-ft-thick layer of track rubber followed by about 0.4 to 0.5-ft-thick layer of crushed stone was encountered at ground surface at the locations of geoprobes conducted within the limits of the existing track.

The Fill layer was not fully penetrated at geoprobe GP-22 and HA-5 to a depth of 10 ft and at HA-6 to a depth of 15 ft.

Glaciofluvial Deposits - Glaciofluvial Deposits were encountered beneath the Fill at each geoprobe location except for geoprobes GP-01, GP-06, and GP-08 where the Glaciofluvial Deposits were encountered underlying the crushed stone. Glaciofluvial Deposits generally consisted of tan to light brown or red-brown poorly-graded Sand. Glaciofluvial Deposits were not fully penetrated at any of the geoprobe locations.

GROUNDWATER LEVELS

Groundwater was not encountered within the geoprobes at the time of drilling.

Groundwater levels are influenced by precipitation, the presence of below-grade structures and utilities in the area, leakage into or out of utility pipes, the infiltration of surface water runoff, building underdrain systems, localized water recharging, and other factors. Groundwater conditions encountered during subsequent site visits and/or during construction may differ from those reported herein, and as additional groundwater measurements are obtained during subsequent design phases, this report will be updated.

Geotechnical Mitigation Considerations

Since areas of settlement have been observed within the turf field, the School has been performing routine maintenance consisting of a subcontractor removing the turf surface and filling in localized low spots. Additionally, the northeast corner of the track that was previously observed to experience settlement was patched and resurfaced between 2022 and 2023.

Of the recent geoprobe explorations, locations GP-03, GP-05, GP-13, GP-22 encountered buried wood and pockets of dark brown organic soil (topsoil) between 0.5 and 5 ft bgs within the Fill layer. These locations are spread out across the track and field and are not located in one central area, suggesting that other locations or areas between explorations may encounter similar conditions subject to future settlement.

Full-Depth Restoration (recommended)

To mitigate the risk of future settlement, we recommend that a full depth restoration of the field and track surface be performed prior to replacement of the surfaces. Full depth restoration shall include:

Site Preparation

- Strip, remove, and dispose of existing rubber track surface and synthetic turf field and crushed stone subbase.
- Excavate and remove the full depth of Fill up to a 5 ft depth beneath the track and field and 5 ft laterally outside the limits of the track. Within the limits shown on Figure 2, the northeast corner of the track is recommended to be excavated and removed up to 10 ft due to presence of deeper Fill materials that are unsuitable for subbase of the track.
- Segregate/screen/stockpile excavated Fill materials that are suitable for re-use as compacted granular fill beneath the track and field surface. Remove and dispose of unsuitable Fill material (buried topsoil, organic materials, wood, etc).

  Reuse of any excavated soils will be dependent upon visual characterization of the materials and results of grain size analyses and laboratory compaction tests. Accordingly, we recommend to

the extent possible that an on-site location be established for segregating, processing, and stockpiling excavated soils.

Subgrade Preparation

- After the Fill has been excavated, the subgrade shall be compacted to 95% of the material's maximum dry unit weight (determined in accordance with ASTM D1557) using appropriate compactive efforts. As a minimum, the subgrade should receive four complete coverages with suitable compaction equipment. The excavated material may be reused after the wood or degradable materials are removed from the Fill material.
- Place a woven geotextile fabric (Mirafi 600X or similar) on top of the prepared and approved subgrade as well as on the sides of the excavation.
- The excavation shall be backfilled with previously excavated Fill material suitable for re-use or Granular Fill placed in loose lift thicknesses not exceeding 12 inches (in.), and the material shall be compacted to 95% of the material's maximum dry unit weight (determined in accordance with ASTM D1557) using appropriate compactive efforts. As a minimum, each layer of fill should receive four complete coverages with suitable compaction equipment.

Following backfill and compaction to design subgrade elevation, re-construct the track and field. Refer to recommendations in following sections.

Synthetic Turf Field

- Following completion of subgrade preparation to design subgrade elevation for the new turf system, prepare the subgrade using a large compaction roller to prepare a firm, dry and stable subgrade. If during static rolling of the subgrades pumping or weaving conditions are observed, alternative compaction techniques may be required and/or additional subgrade preparation may be recommended (e.g., removal and replacement of soft, compressible soils).
- At all times prior to placement of the turf system, we recommend maintaining a dry and undisturbed design subgrade to ensure a stable working surface to receive the turf system. Temporary re-grading outside the limits of the new field will be required to divert surface runoff away from the work areas. Construction dewatering is not anticipated; however, if it becomes necessary, efforts should be taken by the contractor to discharge dewatering effluent to an on-site recharge system at distances away from the work areas so as not to disturb subgrade preparation.
- For the permanent condition, the maintenance, protection and long-term performance of the synthetic turf field will require an effective stormwater runoff collection and management system. Anticipated subsurface soils at and/or within shallow depths of the anticipated design subgrade level for the new synthetic turf fields are likely to consist of fine-grained sandy silts/silty sands that have poor drainage characteristics – vertically and laterally. Design of any sub-turf drainage systems must consider the effect these impermeable subgrade soils can have on the field's drainage capacity. At a minimum, the sub-turf drainage systems must be designed

such that the system is entirely and at all times above groundwater level. Design of the drainage system for the synthetic turf should be completed by a Civil Engineer. For this report, we recommend the subgrade be pitched to direct drainage towards the sub-turf drainage system that would be comprised of a minimum 10 to 12-in. thick layer of double-washed, 3/4-in. crushed stone with perforated HDPE pipes that are sized by the Civil Engineer and embedded within the crushed stone so as to effectively collect and transport by gravity any accumulated runoff water that filters from the turf layer above to an appropriately sized on-site collection/groundwater recharge tank or, alternatively, direct the discharge into a permitted storm drain. Prior to placing the crushed stone and perforated piping, a woven geotextile fabric (Mirafi 600X or similar) should be placed on top of the prepared and approved subgrade. Additionally, a backflow preventer at the outlet structure should be incorporated into the design of the drainage system.

- 3/4-in Crushed Stone shall consist of inert angular material derived from a stone quarry that is hard, durable, washed stone or crushed gravel, free from clay, loam, or other deleterious material, with a maximum size of 3/4 in, and conforming to the following:

Sieve Size	Percent Passing By Weight
1 in.	100
3/4 in.	90 – 100
1/2 in.	10 – 50
3/8 in.	0 – 20
No. 4	0 – 5

Synthetic Track

- Following preparation to subgrade elevation, provide a minimum 12-in. layer of Granular Fill for the subbase of the asphalt. Asphalt and rubberized track surface thickness should match original design drawings.
- Granular Fill shall be obtained from off-site sources and shall consist of naturally occurring or processed, inert material that is hard, durable natural stone and coarse sand, free from loam, clay, surface coatings, and deleterious materials.

Sieve Size	Percent Passing By Weight
3 in.	100
No. 4	30 – 90
No. 40	10 – 50
No. 200	0 – 8

- If portions of the proposed track extend beyond the existing plan limits of the existing track, we recommend complete removal of the existing topsoil prior to compacting the subgrade and placement and compaction of a minimum 12-in. thick lift of granular fill to design subgrade elevation.

Track and Field Surface Restoration (alternate consideration with routine maintenance)

If project construction costs associated with the recommended over-excavation and backfilling are determined to not be acceptable to the School, the reduced scope of track and field surface restorations could be considered by the School as an alternate consideration that would not require the subgrade preparation in the full-depth restoration recommendation. This option would not mitigate the risk of potential long term field performance issues due to the presence of the remaining unsuitable soils below the over-excavation limits but could allow the track and field to be utilized in the short term and would require periodic maintenance of both the synthetic turf field and track.

For this consideration, the track and field surface restoration would consist of:

- Remove/mill track surface down to asphalt base layer, patch observed cracks and shim depressions in the asphalt, and replace with new synthetic track surface/system.
- Remove synthetic turf surface/carpet, raise grade with additional crushed stone where needed, and replace with new synthetic turf surface. Prior to installing the new synthetic turf, the existing drainage stone should be tested to confirm design infiltration rate of the drainage layer is consistent with the synthetic turf field provider's requirements. Additionally, an inspection of the existing drainage piping (lateral field and perimeter drain lines) should be completed to confirm the drainage system is functioning as originally designed and meets stormwater management requirements for the new turf field system.
- Surface track and synthetic turf surface restoration should be conducted by a specialty contractor familiar with the construction and repair of synthetic turf and track systems.

Limitations

This letter was prepared in accordance with our proposal dated 30 April 2025 and your subsequent written authorization. This letter has been prepared for the specific application to the Granby Public Schools synthetic turf field and track.

The nature and extent of variations in the subsurface conditions between explorations may not become evident until construction, and the project design may change from our current understanding. Any additional information pertaining to the project that becomes available should be provided to Haley & Aldrich, so that our conclusions and recommendations can be reviewed and modified, as necessary.

We appreciate the opportunity to provide engineering services on this project. Please do not hesitate to call if you have any questions or comments.

Sincerely yours,
HALEY & ALDRICH, INC.

Megan H. Carlson, PE (NY)
Project Manager

R. Scott Goldkamp, PE (MA/NH)
Principal

Attachments:

Figure 1 – Site Locus
Figure 2 – Site and Subsurface Exploration Location Plan
Appendix A – Previous Geoprobe Logs
Appendix B – Recent Geoprobe Logs

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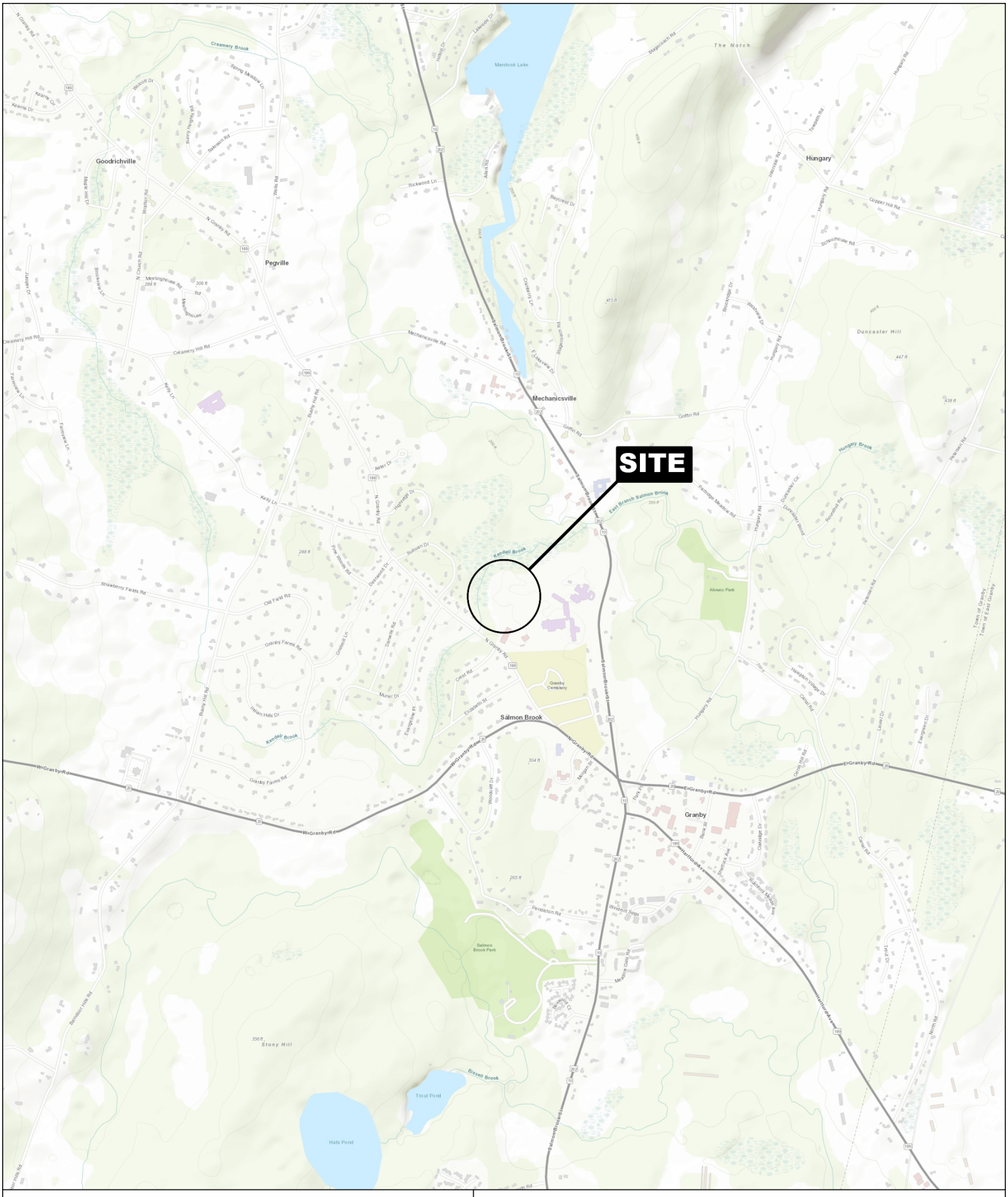
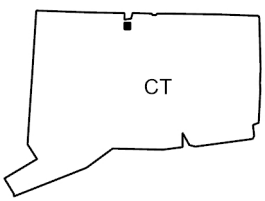


SITE COORDINATES: 41°57'39"N, 72°47'43"W



MAP SOURCE: USGS

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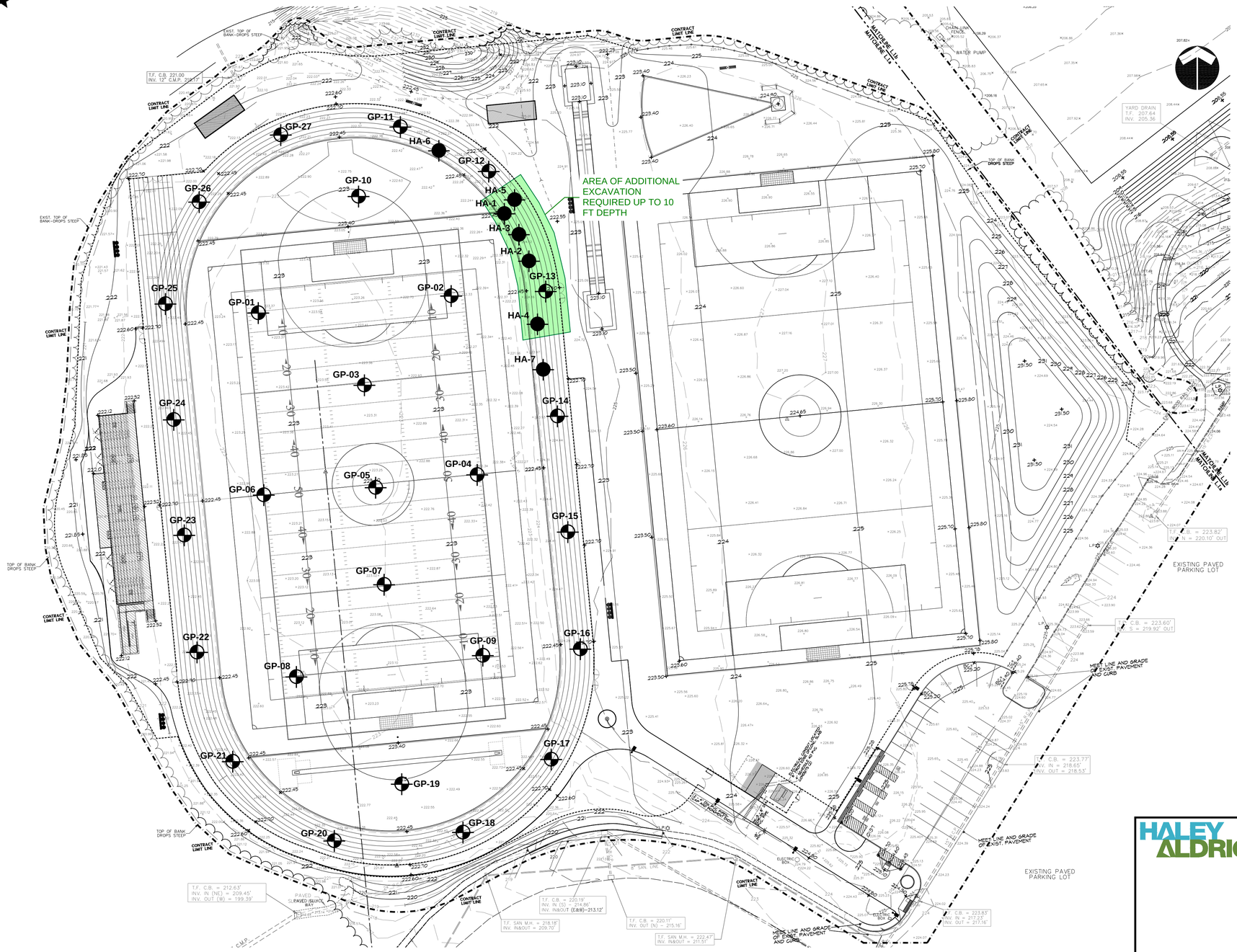
GRANBY PUBLIC SCHOOLS - TURF FIELD AND TRACK
50 NORTH GRANBY ROAD
GRANBY, CT

PROJECT LOCUS

APPROXIMATE SCALE: 1 INCH = 2,000 FEET
JULY 2025

FIGURE 1

0206711_100_LOCUS HALEYALDRICHIACORTINA



LEGEND

GP-01 — DESIGNATION AND APPROXIMATE LOCATION OF GEOPROBE PERFORMED BY G&M SUBSURFACE FROM 23 TO 25 JUNE 2025 AND OBERSVED BY HALEY & ALDRICH, INC.

HA-1 — DESIGNATION AND APPROXIMATE LOCATION OF GEOPROBE PERFORMED BY SEABOARD DRILLING ON 20 OCTOBER 2022 AND OBSERVED BY HALEY & ALDRICH, INC.

NOTES

1. BASE PLAN OBTAINED FROM DRAWING NO. L.2.A TITLED "SITE GRADING PLAN" PREPARED BY CR3 LLP AND DATED 16 JANUARY 2013.
2. ELEVATIONS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

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GRANBY PUBLIC SCHOOLS - TURF FIELD AND TRACK
GRANBY, CONNECTICUT

SITE AND SUBSURFACE EXPLORATION LOCATION PLAN

SCALE: 1" = 40'
JULY 2025

FIGURE 2

APPENDIX A
Previous Geoprobe Logs

IDENTIFICATION AND DESCRIPTION OF SUBSURFACE MATERIALS

SOIL

Soil description on logs of subsurface explorations are based on Standard Penetration Test results, visual-manual examination of exposed soil and soil samples, and the results of laboratory tests on selected samples. The criteria, descriptive terms and definitions are as follows:

DENSITY OR CONSISTENCY

Density of Cohesionless Soils	Penetration Resistance (Blows per ft.)	Consistency of Cohesive Soils	Penetration Resistance (Blows per ft.)
Very Loose	0-4	Very Soft	0-2
Loose	5-10	Soft	3-4
Medium	11-30	Medium	5-8
Dense	31-50	Stiff	9-15
Very Dense	over 50	Very Stiff	16-30
		Hard	over 30

PENETRATION RESISTANCE

Standard Penetration Test (ASTM D-1586) - Number of blows required to drive a standard 2 in. O.D. split spoon sampler 1 ft. with a 140 lb. weight falling freely through 30 in.

COLOR: Basic colors and combinations: black, brown, gray, yellow-brown, etc.

SUPPLEMENTAL SOIL TERMINOLOGY:

Laminae	- 0 to 1/16 in. thick (cohesive)
Parting	- 0 to 1/16 in. thick (granular)
Seam	- 1/16 to 1/2 in. thick
Layer	- 1/2 to 12 in. thick
Stratum	- > 12 in. thick
Pocket	- Small, erratic deposit less than 12 in. size
Lens	- Lenticular deposit larger than a pocket
Occasional	- One or less per 12 in. of thickness
Frequent	- More than one per 12 in. of thickness
Interbedded	- Alternating soil layers of differing composition
Varved	- Alternating thin seams of silt and clay
Mottled	- Variation of color

GEOLOGIC INTERPRETATION

Deposit type - GLACIAL TILL, ALLUVIUM, FILL.....

The natural soils are identified by criteria of Unified Soil Classification System (USCS), with appropriate group symbol in parenthesis for each soil description. Fill materials may not be classified by USCS criteria.

U.S. Standard Series Seive — Clear Square Sieve Openings

12"	3"	3/4"	4	10	40	200
Boulders	Cobbles	Gravel: Coarse / Fine		Sand: Coarse / Medium / Fine		Silts and Clays
305 mm	76 mm	19 mm	4.75 mm	2.00 mm	0.43 mm	0.074 mm

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			Group Symbol	Graphic Symbol	TYPICAL NAMES
Coarse grained soils: more than half is larger than number 200 sieve	Gravels: More than half of coarse fraction is larger than number 4 sieve	Gravels with little or no fines	GW		Well graded gravels, gravel-sand mixtures
			GP		Poorly graded gravels, gravel-sand mixtures
		Gravels with over 12% fines	GM		Silty gravels, poorly graded gravel-sand-silt mixtures
			GC		Clayey gravels, poorly graded gravel-sand-clay mixtures
	Sands: More than half of coarse fraction is smaller than number 4 sieve	Sands with little or no fines	SW		Well graded sands, gravelly sands
			SP		Poorly graded sands, gravelly sands
		Sands with over 12% fines	SM		Silty sands, poorly graded sand-silt mixtures
			SC		Clayey sands, poorly graded sand-clay mixtures
Fined-grained soils: more than half smaller than number 200 sieve	Silts and Clays: Liquid limit 50% or less		ML		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
			CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL		Organic clays and organic silty clays of low plasticity
	Silts and Clays: Liquid limit greater than 50%		MH		Inorganic silty, micaceous or diatomaceous fine sandy or silty soils, elastic silts
			CH		Inorganic clays of high plasticity, fat clays
			OH		Organic clays of medium to high plasticity, organic silts
Highly organic soils			PT		Peat and other highly organic soils

GENERAL NOTES

1. Logs of subsurface explorations depict soil, rock and groundwater conditions only at the locations specified on the dates indicated. Subsurface conditions may vary at other locations and at other times.
2. Water levels noted on the logs were measured at the times and under the conditions indicated. During test borings, these water levels could have been affected by the introduction of water into the borehole, extraction of tools on other procedures and thus may not reflect actual groundwater level at the test boring location. Groundwater level fluctuations may also occur as a result of variations in precipitation, temperature, season, tides, adjacent construction activities and pumping of water supply wells and construction dewatering systems.

ROCK

Rock descriptions noted on logs of subsurface explorations are based on visual-manual examination of exposed rock outcrops and core samples. The criteria, descriptive terms and definitions used are as follows:

FIELD HARDNESS: A measure of resistance to scratching.

Very Hard	Cannot be scratched with a knife point or sharp pick.
Hard	Can be scratched with a knife point or sharp pick, only with difficulty.
Moderately Hard	Can be readily scratched with a knife point or pick.
Medium Hard	Can be grooved or gouged 1/16 in. deep with firm pressure on a knife point or sharp pick.
Soft	Can be grooved or gouged easily with a knife point or pick.
Very Soft	Can be carved with a knife and excavated with a pick point.

WEATHERING: The action of organic and inorganic and chemical and physical processes resulting in alteration of color, texture and composition.

Fresh-FR	No visible sign of alteration, except perhaps slight discoloration on major discontinuity surfaces.
Slight-SL	Discoloration of rock material and discontinuity surfaces. All rock may be discolored and/or somewhat weaker than in its fresh condition.
Moderate-MOD	Less than half the rock material is decomposed and/or disintegrated to a soil. Some fresh or discolored rock is present as either a continuous framework or as corestones.
High-HIGH	More than half the rock material is decomposed and/or disintegrated to a soil. Fresh or discolored rock is present as either a discontinuous framework or as corestones.
Complete-COMP	All rock material is decomposed and/or disintegrated to soil. The original mass structure is largely intact.
Residual Soil	All rock material is converted to soil. The mass structure and material fabric are destroyed. There has been a large change of volume, but the material has not been significantly transported.

COLOR: Basic colors and combinations: gray, light gray, brown, red-brown.

TEXTURE: Size, shape and arrangements of constituents.

Term	Size: Igneous	Size: Sedimentary
Coarse-grained	> 5 mm	> 2 mm
Medium-grained	1 - 5 mm	0.625 - 2 mm
Fine-grained	< 1 mm	< 0.625 mm
Aphanitic	Individual grains invisible to the unaided eye.	

LITHOLOGY: Rock classification and modifiers; accepted formation names.

DISCONTINUITIES:

Type	Definition
Joint	A natural fracture along which no displacement has occurred. May occur in parallel groups called sets.
Shear	A natural fracture along which displacement has occurred. Surface may be slickensided or striated.
Fault	A natural fracture along which displacement has occurred. Usually lined with gouge and slickensides.
Shear or Fault Zone	Zone of fractured rock and gouge bordering the displacement plane.

ORIENTATION/ATTITUDE:

Term	Angle (degrees)
Horizontal	0-5
Low Angle	6-35
Moderately Dipping	36-55
High Angle	56-85
Vertical	86-100

SPACING:

Discontinuity Term	Bedding Term	Inches
Extremely Close	Extremely Thin	< 3/4
Very Close	Very Thin	3/4 - 2.5
Close	Thin	2.5 - 8
Moderate	Medium	8 - 24
Wide	Thick	24 - 80
Very Wide	Very Thick	80 - 240
Extremely Wide	Extremely Thick	> 240

PERSISTENCE/CONTINUITY:

Term	Feet
Very Low	0-3
Low	3-10
Medium	10-35
High	35-65
Very High	> 65

APERTURE/GAP:

Term	Distance
Very Tight	< 0.1mm
Tight	0.1mm-0.25mm
Partly Open	0.25mm-0.5mm
Open	0.5mm-2.5mm
Moderately Wide	2.5mm-1cm
Wide	> 1cm
Very Wide	1cm-10cm
Extremely Wide	10cm-1m
Cavernous	> 1m

POROSITY:

Type

Primary:
Pre-depositional and depositional inter- and intra- granular, particle, or crystalline pores.

Secondary:
Solution features including pits, vugs, caverns, molds, and channels.
Fracture features including joints, shears, faults, shrinkage and breccia fabrics.

Term	Size
Micro	< 0.0625 mm
Meso	0.0625-4.0 mm
Mega	4.0-256 mm

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SUBSURFACE EXPLORATION KEY

J:\GRAPHICS\TEMP\MCELENEY-TF\FIELD SERVICES\SUBSURFACE EXPLORATION LOG KEYS\SUBSURFACE EXPLORATION KEY2008-1027.DWG

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GEOPROBE REPORT

Boring No. HA-1

Project	GRANBY HIGH SCHOOL TRACK, 54 N GRANBY RD, GRANBY CT
Client	R.A.D. SPORTS
Contractor	Sea Board Drilling

File No.	0206711-000
Sheet No.	1 of 1
Start	October 20, 2022
Finish	October 20, 2022
Driller	M. Kern
H&A Rep.	J. Shaw
Elevation	222.0 (est.)
Datum	NAVD88
Location	See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620
Inside Diameter (in.)		1.5		Bit Type: Geoprobe Spoon
Hammer Weight (lb)		Auto	-	Drill Mud: None
Hammer Fall (in.)			-	Casing: Push
				Hoist/Hammer: - Automatic Hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME & SYMBOL, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 42	0.0 5.0	221.9 0.1		-TRACK RUBBER-										
				221.4 0.6	SW SP	-ASPHALT- Gray to gray-brown well-graded SAND with gravel (SW), no structure, no odor, dry	5	10 15	10 10	20 15	55 60					
						- FILL - Light red-brown to tan poorly-graded SAND (SP), no structure, no odor, moist, trace organics										
5		G2 36	5.0 10.0		SM	Light brown to tan SAND (SM), no structure, no odor, wet, wood fragments, trace organics		10	10	20	45	15				
					SM	Gray to gray-brown silty SAND (SM), no structure, no odor, moist, trace wood fragments, trace organics		10	15	20	30	25				
10		G3 36	10.0 15.0	211.0 11.0	SP	Light brown to tan poorly-graded SAND with gravel (SP), no structure, no odor, wet	5	10	10	20	55					
						- GLACIOFLUVIAL DEPOSITS -										
15				207.0 15.0		BOTTOM OF EXPLORATION 15.0 FT										

Water Level Data						Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	Riser Pipe Screen Filter Sand Cuttings Grout Concrete Bentonite Seal	Overburden (ft) 15.0 Rock Cored (ft) 0.0 Samples G3 **Boring No. HA-1**

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE REPORT

Boring No. HA-2

Project	GRANBY HIGH SCHOOL TRACK, 54 N GRANBY RD, GRANBY CT
Client	R.A.D. SPORTS
Contractor	Sea Board Drilling

File No. 0206711-000
Sheet No. 1 of 1
Start October 20, 2022
Finish October 20, 2022
Driller M. Kern
H&A Rep. J. Shaw
Elevation 222.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620
Inside Diameter (in.)		1.5		Bit Type: Geoprobe Spoon
Hammer Weight (lb)		Auto	-	Drill Mud: None
Hammer Fall (in.)			-	Casing: Push
				Hoist/Hammer: - Automatic Hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME & SYMBOL, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 42	0.0 5.0	221.9 0.1		-TRACK RUBBER-										
				221.4 0.6	SW	-ASPHALT-	5	10	10	20	55					
					SP	Gray to gray-brown well-graded SAND with gravel (SW), no structure, no odor, dry Light brown to tan poorly-graded SAND with gravel (SP), no structure, no odor, dry		15	10	15	60					
5		G2 24	5.0 10.0		CL SP	Gray-brown sandy lean CLAY (CL), no structure, no odor, moist, trace organics, trace wood, appears disturbed Red-brown to light brown poorly-graded SAND (SP), no structure, no odor, dry Note: Upon advancing geoprobe sleeve, observed little to no resistance between 5.4 to 5.8 ft. - FILL -		10	15	10 20	20 55	70				
					SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		10	15	20	55					
10		G3 42	10.0 15.0	212.0 10.0	SP	Light brown to tan poorly-graded SAND (SP), no structure, no odor, moist -GLACIOFLUVIAL DEPOSITS-		10	15	30	45					
15				207.0 15.0		BOTTOM OF EXPLORATION 15.0 FT										

Water Level Data						Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	Riser Pipe Screen Filter Sand Cuttings Grout Concrete Bentonite Seal	Overburden (ft) 15.0 Rock Cored (ft) 0.0 Samples G3 **Boring No. HA-2**

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. HA-3

Project	GRANBY HIGH SCHOOL TRACK, 54 N GRANBY RD, GRANBY CT
Client	R.A.D. SPORTS
Contractor	Sea Board Drilling

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620
Inside Diameter (in.)		1.5		Bit Type: Geoprobe Spoon
Hammer Weight (lb)		Auto	-	Drill Mud: None
Hammer Fall (in.)			-	Casing: Push
				Hoist/Hammer: - Automatic Hammer
				PID Make & Model: Not used

File No.	0206711-000
Sheet No.	1 of 1
Start	October 20, 2022
Finish	October 20, 2022
Driller	M. Kern
H&A Rep.	J. Shaw
Elevation	222.0 (est.)
Datum	NAVD88
Location	See Plan

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME & SYMBOL, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 36	0.0 5.0	221.9 0.1		-TRACK RUBBER-										
				221.4 0.6	SW	-ASPHALT-	5	10	10	20	55					
					SP	Gray to gray-brown well-graded SAND with gravel (SW), no structure, no odor, dry Light brown to tan poorly-graded SAND (SP), no structure, no odor, dry		10	15	20	55					
					SP	Light brown to brown poorly-graded SAND (SP), no structure, no odor, dry		10	15	20	55					
5		G2 36	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		10	15	20	55					
						-FILL-										
				212.5 9.5	SM	Light brown silty SAND (SM), no structure, no odor, dry				20	40	40				
10		G3 36	10.0 15.0	212.0 10.0	SP	Light brown to tan poorly-graded SAND (SP), no structure, no odor, moist			15	30	55					
						- GLACIOFLUVIAL DEPOSITS -										
15				207.0 15.0		BOTTOM OF EXPLORATION 15.0 FT										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	15.0
Rock Cored (ft)	0.0
Samples	G3

Boring No. HA-3

Field Tests:

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. HA-4

Project	GRANBY HIGH SCHOOL TRACK, 54 N GRANBY RD, GRANBY CT
Client	R.A.D. SPORTS
Contractor	Sea Board Drilling

File No.	0206711-000
Sheet No.	1 of 1
Start	October 20, 2022
Finish	October 20, 2022
Driller	M. Kern
H&A Rep.	J. Shaw
Elevation	222.0 (est.)
Datum	NAVD88
Location	See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620
Inside Diameter (in.)		1.5		Bit Type: Geoprobe Spoon
Hammer Weight (lb)		Auto	-	Drill Mud: None
Hammer Fall (in.)			-	Casing: Push
				Hoist/Hammer: - Automatic Hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME & SYMBOL, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 30	0.0 5.0	221.9 0.1		-TRACK RUBBER-										
				221.4 0.6	SW	-ASPHALT-	5	10	10	20	55					
					SP	Gray to gray-brown well-graded SAND with gravel (SW), no structure, no odor, dry Light brown poorly-graded SAND (SP), no structure, no odor, dry		10	15	20	55					
5		G2 12	5.0 10.0		SP	Light brown to red-brown poorly-graded SAND (SP), no structure, no odor, dry Note: Upon advancing geoprobe sleeve, observed little to no resistance between 5.4 to 5.8 ft. - FILL -		10	15	20	55					
10		G3 42	10.0 15.0		SP	Light red-brown poorly graded SAND (SP), no structure, no odor, dry, pockets of dark brown organics, occasional brick specks, appears disturbed			10	20	70					
				209.0 13.0	SP	Light brown poorly-graded SAND with gravel (SP), no structure, no odor, dry	5	10	15	20	50					
					SM	Light brown silty SAND (SM), no structure, no odor, dry				20	40	40				
15				207.0 15.0		- GLACIOFLUVIAL DEPOSITS - BOTTOM OF EXPLORATION 15.0 FT										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	15.0
Rock Cored (ft)	0.0
Samples	G3

Boring No. HA-4

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE REPORT

Boring No. HA-5

Project	GRANBY HIGH SCHOOL TRACK, 54 N GRANBY RD, GRANBY CT
Client	R.A.D. SPORTS
Contractor	Sea Board Drilling

File No.	0206711-000
Sheet No.	1 of 1
Start	October 20, 2022
Finish	October 20, 2022
Driller	M. Kern
H&A Rep.	J. Shaw
Elevation	222.0 (est.)
Datum	NAVD88
Location	See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620
Inside Diameter (in.)		1.5		Bit Type: Geoprobe Spoon
Hammer Weight (lb)		Auto	-	Drill Mud: None
Hammer Fall (in.)			-	Casing: Push
				Hoist/Hammer: - Automatic Hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME & SYMBOL, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 36	0.0 5.0	221.9 0.1		-TRACK RUBBER-										
				221.4 0.6	SW	-ASPHALT-	5	10	10	20	55					
					SP	Gray to gray-brown well-graded SAND with gravel (SW), no structure, no odor, dry Light brown poorly-graded SAND with gravel (SP), no structure, no odor, moist Note: Upon advancing geoprobe sleeve, observed little to no resistance between 2.4 to 2.6 ft.	5	10	15	20	50					
5		G2 24	5.0 10.0			-FILL-										
					SP	Light brown to red-brown poorly-graded SAND (SP), no structure, no odor, moist		10	15	20	55					
10				212.0 10.0	SM	Brown poorly-graded SAND (SM), no structure, no odor, moist, bottom 2 in. wood, dark lenses of organics, possible former Topsoil/Loess horizon, disturbed			10	10	50	30				
						BOTTOM OF EXPLORATION 10.0 FT										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	15.0
Rock Cored (ft)	0.0
Samples	G2

Boring No. HA-5

Field Tests:
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. HA-6

Project	GRANBY HIGH SCHOOL TRACK, 54 N GRANBY RD, GRANBY CT
Client	R.A.D. SPORTS
Contractor	Sea Board Drilling

File No.	0206711-000
Sheet No.	1 of 1
Start	October 20, 2022
Finish	October 20, 2022
Driller	M. Kern
H&A Rep.	J. Shaw
Elevation	222.0 (est.)
Datum	NAVD88
Location	See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620
Inside Diameter (in.)		1.5		Bit Type: Geoprobe Spoon
Hammer Weight (lb)		Auto	-	Drill Mud: None
Hammer Fall (in.)			-	Casing: Push
				Hoist/Hammer: - Automatic Hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME & SYMBOL, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 42	0.0 5.0	221.9 0.1		-TRACK RUBBER-										
				221.4 0.6	SW	-ASPHALT-	5	10	10	20	55					
					SP	Gray to gray-brown well-graded SAND with gravel (SW), no structure, no odor, dry Light brown poorly-graded SAND with gravel (SP), no structure, no odor, dry	5	10	15	20	50					
5		G2 36	5.0 10.0													
					SM	Light brown to tan silty SAND (SM), no structure, no odor, moist, occasional dark brown organic lenses		10	15	20	25	30				
10		G3 30	10.0 15.0		SP	Brown to tan poorly-graded SAND (SP), no structure, no odor, moist, bottom 5 in. wood		10	15	20	50	5				
						- FILL-										
15				207.0 15.0	SP	Light brown to tan poorly-graded SAND (SP), no structure, no odor, moist, trace organic lenses, trace brick particles, block of wood (3 in. length) in middle of sample		10	15	20	55					
						BOTTOM OF EXPLORATION 15.0 FT										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	10.0
Rock Cored (ft)	0.0
Samples	G3

Boring No. HA-6

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE REPORT

Boring No. HA-7

Project	GRANBY HIGH SCHOOL TRACK, 54 N GRANBY RD, GRANBY CT
Client	R.A.D. SPORTS
Contractor	Sea Board Drilling

File No.	0206711-000
Sheet No.	1 of 1
Start	October 20, 2022
Finish	October 20, 2022
Driller	M. Kern
H&A Rep.	J. Shaw
Elevation	222.0 (est.)
Datum	NAVD88
Location	See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type		G		Rig Make & Model: Geoprobe 6620
Inside Diameter (in.)		1.5		Bit Type: Geoprobe Spoon
Hammer Weight (lb)		Auto	-	Drill Mud: None
Hammer Fall (in.)			-	Casing: Push
				Hoist/Hammer: - Automatic Hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME & SYMBOL, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 42	0.0 5.0	221.9 0.1		-TRACK RUBBER-										
				221.4 0.6	SW	-ASPHALT-	5	10	10	20	55					
				221.0 1.0	SP	Gray to gray-brown well-graded SAND with gravel (SW), no structure, no odor, dry		10	15	20	55					
						- FILL -										
						Light brown to brown poorly-graded SAND (SP), no structure, no odor, dry, trace brick										
						- FILL -										
5		G2 36	5.0 10.0													
				215.0 7.0	SP	Tan to light red-brown poorly-graded SAND with gravel (SP), no structure, no odor, dry	5	10		20	65					
						- GLACIOFLUVIAL DEPOSITS -										
10		G3 42	10.0 15.0													
					SP	Light red-brown poorly-graded SAND (SP), no structure, no odor, dry					100					
15				207.0 15.0		BOTTOM OF EXPLORATION 15.0 FT										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	15.0
Rock Cored (ft)	0.0
Samples	G3

Boring No. HA-7

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

APPENDIX B
Recent Geoprobe Logs

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-01

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 23 June 2025
Finish 23 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 223.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 44	0.0 5.0	222.5 0.5		-CRUSHED STONE-										
					SP	Light brown poorly-graded SAND (SP), no structure, no odor, dry - GLACIOFLUVIAL DEPOSITS -		5	20	50	20	5				
5		G-2 30	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	30	55	5				
10				213.0 10.0		BOTTOM OF EXPLORATION 10.0 FT Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-01

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-02

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 23 June 2025
Finish 23 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 222.5 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 38	0.0 5.0	222.0 0.5		-CRUSHED STONE-										
					SM	Dark brown silty SAND (SM), no structure, no odor, dry		10	10	30	30	20				
				221.0 1.5		- FILL -										
					SP	Light brown poorly-graded SAND (SP), no structure, no odor, dry - GLACIOFLUVIAL DEPOSITS -		5	20	50	20	5				
5		G-2 33	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	40	45	5				
10				212.5 10.0		BOTTOM OF EXPLORATION 10.0 FT Note: Exploration backfilled upon completion.										

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
- O - Open End Rod
- T - Thin Wall Tube
- U - Undisturbed Sample
- S - Splitspoon Sample
- G - Geoprobe

Well Diagram
- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary
- Overburden (ft) 10.0
- Rock Cored (ft) 0.0
- Samples G2

Boring No. GP-02

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-03

Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client GRANBY PUBLIC SCHOOLS
Contractor G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 23 June 2025
Finish 23 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 223.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 40	0.0 5.0	222.5 0.5		-CRUSHED STONE-										
					SP-SM	Tan to light brown poorly-graded SAND with silt (SP-SM), no structure, no odor, dry		5	20	45	20	10				
						-FILL-										
5		G-2 60	5.0 10.0	218.0 5.0	ML	Light brown sandy SILT (ML), no structure, no odor, dry, occasional dark soil lense, appears to be fill or former topsoil/loess soil horizon				10	30	60				
				215.5 7.5		-GLACIOFLUVIAL DEPOSITS-										
10				213.0 10.0		BOTTOM OF EXPLORATION 10.0 FT Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-03

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-04

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 23 June 2025
Finish 23 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 222.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 38	0.0 5.0	221.5 0.5		-CRUSHED STONE-										
					SM	Dark brown silty SAND with gravel (SM), no structure, no odor, dry - FILL -	5	10	10	25	30	20				
				219.0 3.0	SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry - GLACIOFLUVIAL DEPOSITS -		5	20	50	20	5				
5		G-2 40	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	20	50	20	5				
10				212.0 10.0		BOTTOM OF EXPLORATION 10.0 FT Note: Exploration backfilled upon completion.										

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
- O - Open End Rod
- T - Thin Wall Tube
- U - Undisturbed Sample
- S - Splitspoon Sample
- G - Geoprobe

Well Diagram
- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary
- Overburden (ft) 10.0
- Rock Cored (ft) 0.0
- Samples G2

Boring No. GP-04

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-05

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 23 June 2025
Finish 23 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 223.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 39	0.0 5.0	222.5 0.5		-CRUSHED STONE-										
					SM	Dark brown silty SAND with gravel (SM), no structure, no odor, dry, trace organic wood material	5	10	10	25	30	20				
				221.5 1.5	SP	- FILL -		5	20	50	20	5				
						Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry										
						- GLACIOFLUVIAL DEPOSITS -										
5		G2 40	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry	5	5	20	45	20	5				
10				213.0 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-05

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-06

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 23 June 2025
Finish 24 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 223.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 39	0.0 5.0	222.5 0.5		-CRUSHED STONE-										
					SP-SM	Light brown poorly-graded SAND with silt (SP-SM), no structure, no odor, dry		5	20	45	20	10				
						- GLACIOFLUVIAL DEPOSITS -										
5		G-2 35	5.0 10.0		SP	Light brown poorly-graded SAND (SP), no structure, no odor, dry		5	20	40	35					
10				213.0 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-06

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-07

Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client GRANBY PUBLIC SCHOOLS
Contractor G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 23 June 2025
Finish 23 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 223.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 34	0.0 5.0	222.5 0.5		-CRUSHED STONE-										
				222.0 1.0	SM	Dark brown silty SAND with gravel (SM), no structure, no odor, dry	5	10	10	25	30	20				
					SP	- FILL -		5	5	55	30	5				
						Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry										
						- GLACIOFLUVIAL DEPOSITS -										
5		G-2 60	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	45	45					
10				213.0 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-07

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-08

Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client GRANBY PUBLIC SCHOOLS
Contractor G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 23 June 2025
Finish 23 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 223.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 36	0.0 5.0	222.5 0.5		-CRUSHED STONE-										
					SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
						- GLACIOFLUVIAL DEPOSITS -										
5		G-2 30	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry			5	45	50					
10				213.0 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-08

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-09

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 23 June 2025
Finish 23 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 222.5 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 41	0.0 5.0	222.0 0.5	SM	Dark brown silty SAND with gravel (SM), no structure, no odor, dry - FILL -	5	10	10	25	30	20				
				220.0 2.5	SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry - GLACIOFLUVIAL DEPOSITS -		5	5	55	30	5				
5		G-2 33	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
10				212.5 10.0		BOTTOM OF EXPLORATION 10.0 FT Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-09

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-10

Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client GRANBY PUBLIC SCHOOLS
Contractor G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 24 June 2025
Finish 24 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 223.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 41	0.0 5.0	222.9 0.1		- TRACK RUBBER AND ASPHALT -										
				222.5 0.5	SM	-CRUSHED STONE-	15	10	15	20	25	15				
				222.0 1.0	SP	Gray to gray-brown silty SAND with gravel (SM), no structure, no odor, dry - FILL -		5	5	55	30	5				
						Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry										
						- GLACIOFLUVIAL DEPOSITS -										
5		G-2 55	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
10				213.0 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-10

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-11

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 24 June 2025
Finish 24 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 222.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 40	0.0 5.0	221.9 0.1		- TRACK RUBBER AND ASPHALT -										
				221.5 0.5	SP-SM	-CRUSHED STONE-	10	15	15	20	30	10				
				221.0 1.0	SP	Gray to gray-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor, dry	5	10	5	45	30	5				
						- FILL -										
						Red to red-brown poorly-graded SAND (SP), no structure, no odor, dry										
						- GLACIOFLUVIAL DEPOSITS -										
5		G-2 50	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
10				212.0 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-11

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE REPORT

Boring No. GP-12

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 24 June 2025
Finish 24 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 222.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 45	0.0 5.0	221.9 0.1		- TRACK RUBBER AND ASPHALT -										
				221.5 0.5	SP-SM	-CRUSHED STONE-	15	20	15	25	15	10				
				220.0 2.0		Gray to gray-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor, dry										
					SP	- FILL -										
						Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
						- GLACIOFLUVIAL DEPOSITS -										
5		G-2 41	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	45	40	5				
10				212.0 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-12

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-13

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 24 June 2025
Finish 24 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 223.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 46	0.0 5.0	222.5 0.5		- TRACK RUBBER AND ASPHALT -										
				222.0 1.0		-CRUSHED STONE-										
					SP-SM	Gray to gray-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor, dry	15	20	15	25	15	10				
					SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
						-FILL-										
5		G-2 38	5.0 10.0	218.0 5.0	SM	Tan to light-brown silty SAND (SM), no structure, no odor, dry, frequent pockets of dark brown organic soil		5	5	50	20	20				
						-FILL-										
					SM	Brown silty SAND (SM), no structure, no odor, moist				20	40	40				
10		G-3 42	10.0 15.0	213.0 10.0	SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, moist		5	5	40	30	20				
						-GLACIOFLUVIAL DEPOSITS-										
				210.0 13.0	SM	Brown silty SAND (SM), no structure, no odor, moist				20	40	40				
				209.0 14.0	SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, moist	5	5	40	30	20					
15				208.0 15.0		BOTTOM OF EXPLORATION 15.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 15.0
Rock Cored (ft) 0.0
Samples G3

Boring No. GP-13

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-14

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 24 June 2025
Finish 24 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 224.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 43	0.0 5.0	223.9 0.1		- TRACK RUBBER AND ASPHALT -										
				223.5 0.5	SP	-CRUSHED STONE-	15	20	15	25	15	10				
						Brown to red-brown poorly-graded SAND with gravel (SP), no structure, no odor, dry - FILL -										
				220.0 4.0	SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
5		G-2 40	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, moist - GLACIOFLUVIAL DEPOSITS -		5	5	50	35	5				
				216.0 8.0	SM	Brown silty SAND (SM), no structure, no odor, moist				20	40	40				
				215.5 8.5	SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, moist		5	5	50	35	5				
10				214.0 10.0		BOTTOM OF EXPLORATION 10.0 FT Note: Exploration backfilled upon completion.										

Water Level Data						Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	Riser Pipe Screen Filter Sand Cuttings Grout Concrete Bentonite Seal	Overburden (ft) 10.0 Rock Cored (ft) 0.0 Samples G2 **Boring No. GP-14**

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Plasticity**: N - Nonplastic L - Low M - Medium H - High
Toughness: L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-15

Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client GRANBY PUBLIC SCHOOLS
Contractor G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 24 June 2025
Finish 24 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 224.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 44	0.0 5.0	223.9 0.1		- TRACK RUBBER AND ASPHALT -										
				223.5 0.5	SP-SM	-CRUSHED STONE-	15	20	15	25	15	10				
						Gray-brown to red-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor, dry										
						- FILL -										
				220.0 4.0	SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
5		G-2 39	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry			5	10	80	5				
						- GLACIOFLUVIAL DEPOSITS -										
10				214.0 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-15

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-16

Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client GRANBY PUBLIC SCHOOLS
Contractor G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 24 June 2025
Finish 24 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 223.5 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 43	0.0 5.0	223.4 0.1		- TRACK RUBBER AND ASPHALT -										
				223.0 0.5	SP-SM	-CRUSHED STONE-	15	20	15	25	15	10				
						Gray-brown to red-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor, dry										
						- FILL -										
				219.5 4.0	SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
5		G-2 42	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry			5	50	40	5				
						- GLACIOFLUVIAL DEPOSITS -										
10		G-3 45	10.0 15.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry			5	25	65	5				
15				208.5 15.0		BOTTOM OF EXPLORATION 15.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 15.0
Rock Cored (ft) 0.0
Samples G3

Boring No. GP-16

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-17

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 24 June 2025
Finish 24 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 223.5 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 40	0.0 5.0	223.4 0.1		- TRACK RUBBER AND ASPHALT -										
				223.0 0.5	SP-SM	-CRUSHED STONE-	15	20	15	25	15	10				
						Gray-brown to red-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor, dry										
						- FILL -										
				219.5 4.0	SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
5		G-2 35	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry			5	50	40	5				
						- GLACIOFLUVIAL DEPOSITS -										
10				213.5 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-17

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-18

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 24 June 2025
Finish 24 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 222.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 40	0.0 5.0	221.9 0.1		- TRACK RUBBER AND ASPHALT -										
				221.5 0.5	SP-SM	-CRUSHED STONE-	15	20	15	25	15	10				
						Gray-brown to red-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor, dry - FILL -										
				218.0 4.0	SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
5		G-2 42	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry - GLACIOFLUVIAL DEPOSITS -			5	30	60	5				
10				212.0 10.0		BOTTOM OF EXPLORATION 10.0 FT Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-18

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-19

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 24 June 2025
Finish 24 June 2025
Driller B. Wilson
H&A Rep. C. Cravinho
Elevation 223.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G-1 46	0.0 5.0	222.9 0.1		- TRACK RUBBER AND ASPHALT -										
				222.5 0.5	SP-SM	-CRUSHED STONE-	15	20	15	25	15	10				
						Gray-brown to red-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor, dry - FILL -										
				219.0 4.0	SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry		5	5	55	30	5				
5		G-2 40	5.0 10.0		SP	Tan to light brown poorly-graded SAND (SP), no structure, no odor, dry - GLACIOFLUVIAL DEPOSITS -			5	50	40	5				
10				213.0 10.0		BOTTOM OF EXPLORATION 10.0 FT Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-19

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-20

Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client GRANBY PUBLIC SCHOOLS
Contractor G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 25 June 2025
Finish 25 June 2025
Driller B. Wilson
H&A Rep. E. Robinson
Elevation 222.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	PUSH	G1	0.0 5.0	221.7 0.3	SP-SM SP	-TRACK RUBBER AND ASPHALT-	10	20	20	20	20	10				
						Dark gray to gray-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor	10	15	25	20	30					
						Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry										
						- FILL -										
5	PUSH	G2	5.0 10.0													
10	PUSH	G3	10.0 15.0	210.0 12.0	SM	Dark brown silty SAND with gravel (SM), no structure, no odor, dry, occasional irregular dark brown sandy SILT pocket (fill)				25	60	15				
				209.0 13.0	SP	Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry, trace clayey sand	0	0	10	40	50					
						- GLACIOFLUVIAL DEPOSITS -										
15	PUSH	G4	15.0 20.0	205.0 17.0	SM	Tan silty SAND (SM), no structure, no odor, moist					70	30				
20				202.0 20.0		BOTTOM OF EXPLORATION 20.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 20.0
Rock Cored (ft) 0.0
Samples G4

Boring No. GP-20

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-21

Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client GRANBY PUBLIC SCHOOLS
Contractor G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 25 June 2025
Finish 25 June 2025
Driller B. Wilson
H&A Rep. E. Robinson
Elevation 222.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				221.6		-TRACK RUBBER AND ASPHALT-										
	PUSH	G1	0.0 5.0	0.4 221.2 0.8	SP-SM	Dark gray to gray-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor	10	20	20	20	20	10				
					SP	- FILL -	5		20	25	50					
						Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry										
						- GLACIOFLUVIAL DEPOSITS -										
5	PUSH	G2	5.0 10.0													
10				212.0 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-21

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-22

Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client GRANBY PUBLIC SCHOOLS
Contractor G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 25 June 2025
Finish 25 June 2025
Driller B. Wilson
H&A Rep. E. Robinson
Elevation 222.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				221.6		-TRACK RUBBER AND ASPHALT-										
	PUSH	G1	0.0 5.0	0.4	SP-SM SP	Dark gray to gray-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry - FILL -	10	20	20 25	20 20	20 55	10				
5				217.0												
	PUSH	G2	5.0 10.0	5.0	ML	Dark brown sandy SILT (ML) with dark brown organic soil pockets, occasional wood pieces (from tree?) -FILL-		5		5	30	60				
10				212.0 10.0		BOTTOM OF EXPLORATION 10.0 FT Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-22

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-23

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 25 June 2025
Finish 25 June 2025
Driller B. Wilson
H&A Rep. E. Robinson
Elevation 222.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	PUSH	G1	0.0 5.0	221.7 0.3	GW-GC	-TRACK RUBBER AND ASPHALT-										
				221.0 1.0		Dark gray and gray-brown poorly-graded SAND with silt and gravel (GW-GC), no structure, no odor	10	20	20	20	20	10				
					SP	- FILL -										
						Red-brown to tan poorly-graded SAND with gravel (SP), bedded, no odor, dry	5	10	25	20	40					
						- GLACIOFLUVIAL DEPOSITS -										
5	PUSH	G2	5.0 10.0													
10				212.0 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
- O - Open End Rod
- T - Thin Wall Tube
- U - Undisturbed Sample
- S - Splitspoon Sample
- G - Geoprobe

Well Diagram
- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary
- Overburden (ft) 10.0
- Rock Cored (ft) 0.0
- Samples G2

Boring No. GP-23

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE REPORT

Boring No. GP-24

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 25 June 2025
Finish 25 June 2025
Driller B. Wilson
H&A Rep. E. Robinson
Elevation 222.5 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel
Type	-	G	-
Inside Diameter (in.)	-	1.5	-
Hammer Weight (lb)	-	AUTO	-
Hammer Fall (in.)	-	-	-

Drilling Equipment and Procedures:
Rig Make & Model: Geoprobe 7822DT
Bit Type: Geoprobe Spoon
Drill Mud: None
Casing: Push
Hoist/Hammer: Winch Automatic hammer
PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	P U S H	G1	0.0 5.0	222.1 0.4		-TRACK RUBBER AND ASPHALT-										
				221.5 1.0	SP-SM	Dark gray to gray-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor	10	20	20	20	20	10				
					SP	- FILL - Red-brown to tan poorly-graded SAND with gravel (SP), bedded, no odor, dry	5	10	20	25	40					
5	P U S H	G2	5.0 10.0			- GLACIOFLUVIAL DEPOSITS -										
10	P U S H	G3	10.0 15.0													
15				207.5 15.0	SP	Red to red-brown poorly-graded SAND with gravel (SP), no structure, no odor, dry					100					

BOTTOM OF EXPLORATION 15.0 FT

Note: Exploration backfilled upon completion.

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 15.0
Rock Cored (ft) 0.0
Samples G3

Boring No. GP-24

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-25

Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client GRANBY PUBLIC SCHOOLS
Contractor G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 25 June 2025
Finish 25 June 2025
Driller B. Wilson
H&A Rep. E. Robinson
Elevation 222.5 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				222.2												
	PUSH	G1	0.0 5.0	0.3	SP-SM	-TRACK RUBBER AND ASPHALT- Dark gray to gray-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor	10	20	20	20	20	10				
				221.5 1.0	SP	- FILL - Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry, trace clayey sand, graded bedding coarse to fine sand	0	0	10	40	50					
5	PUSH	G2	5.0 10.0			- GLACIOFLUVIAL DEPOSITS -										
10	PUSH	G3	10.0 15.0													
15				207.5 15.0		BOTTOM OF EXPLORATION 15.0 FT Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 15.0
Rock Cored (ft) 0.0
Samples G3

Boring No. GP-25

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-26

Project	GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client	GRANBY PUBLIC SCHOOLS
Contractor	G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 25 June 2025
Finish 25 June 2025
Driller B. Wilson
H&A Rep. E. Robinson
Elevation 222.5 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	PUSH	G1	0.0 5.0	221.5 1.0	SP-SM	Dark gray to gray-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor	10	20	20	20	20	10				
					SP	- FILL -	0	0	10	40	50					
						Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry, trace clayey sand, graded beds, coarse grain on top of fine grain										
						- GLACIOFLUVIAL DEPOSITS -										
5	PUSH	G2	5.0 10.0													
10				212.5 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
- O - Open End Rod
- T - Thin Wall Tube
- U - Undisturbed Sample
- S - Splitspoon Sample
- G - Geoprobe

Well Diagram
- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary
- Overburden (ft) 10.0
- Rock Cored (ft) 0.0
- Samples G2

Boring No. GP-26

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY ALDRICH

GEOPROBE REPORT

Boring No. GP-27

Project GRANBY PUBLIC SCHOOLS- TURF FIELD AND TRACK, GRANBY, CT
Client GRANBY PUBLIC SCHOOLS
Contractor G&M SUBSURFACE

File No. 0206711-001
Sheet No. 1 of 1
Start 25 June 2025
Finish 25 June 2025
Driller B. Wilson
H&A Rep. E. Robinson
Elevation 222.0 (est.)
Datum NAVD88
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	G	-	Rig Make & Model: Geoprobe 7822DT
Inside Diameter (in.)	-	1.5	-	Bit Type: Geoprobe Spoon
Hammer Weight (lb)	-	AUTO	-	Drill Mud: None
Hammer Fall (in.)	-	-	-	Casing: Push
				Hoist/Hammer: Winch Automatic hammer
				PID Make & Model: Not used

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size†, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	PUSH	G1	0.0 5.0	221.0 1.0	SP-SM	Dark gray to gray-brown poorly-graded SAND with silt and gravel (SP-SM), no structure, no odor	10	20	20	20	20	10				
					SP	- FILL -	5	10	20	25	40					
						Red-brown to tan poorly-graded SAND with gravel (SP), bedded, no odor, dry										
						- GLACIOFLUVIAL DEPOSITS -										
5	PUSH	G2	5.0 10.0													
					SP	Red-brown to tan poorly-graded SAND (SP), bedded, no odor, dry, trace clayey sand	0	0	10	40	50					
10				212.0 10.0		BOTTOM OF EXPLORATION 10.0 FT										
						Note: Exploration backfilled upon completion.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 10.0
Rock Cored (ft) 0.0
Samples G2

Boring No. GP-27

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

† **Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.