# STATE OF NEW HAMPSHIRE

**Intra-Department Communication**

**DATE:** October 14, 2021

**AT (OFFICE):** NHDES/WMD

**FROM:** Jay Hargy, Permit Engineer
Solid Waste Management Bureau

**THROUGH:** Jaime Colby, Engineering & Permitting Supervisor
Solid Waste Management Bureau

**TO:** File

**RE:** **Proposed Granite State Landfill**
**Dalton, New Hampshire**
**September 16, 2021 Meeting Notes**

At the request of Granite State Landfill, LLC and its representatives (GSL), a meeting was held at NHDES on September 16, 2021 to discuss site-specific groundwater/wetland interactions and bedrock characterization at the proposed landfill location. See the Meeting Attendance record for a list of attendees. This memorandum is to document the meeting.

The following topics were discussed.

**1.** Recent explorations: New overburden and bedrock groundwater monitoring wells have been installed within the footprint of the proposed liner area. The additional groundwater geochemistry data is being evaluated. Both falling head and rising head slug tests are to be completed in the new wells for additional evaluation of soil and bedrock hydraulic conductivity.

**2.** Proposed explorations: New piezometers are to be installed adjacent to some of the mapped wetlands to assess groundwater/wetland interactions and hydraulic gradients.

**3.** Other site activities: Soil mapping is currently occurring at the site to augment the wetland's permit application and to provide addition information about groundwater/wetland interactions and observed indicators of seasonal high water table.

**4.** Bedrock investigations: GSL will provide revised bedrock surface contour and cross-section figures incorporating the geotechnical borings and new subsurface exploration information. GSL is in discussion with geophysical specialists about completing land-based geophysical surveys at the site to evaluate lineaments shown on the bedrock geologic map. Downhole geophysical surveys may also be conducted.

**5.** Seasonal high groundwater: Revised seasonal high groundwater contour figure(s) will be produced incorporating the new wells and will consider temporal/spatial differences in the seasonal high groundwater table. NHDES stated that, if approved, liner separation from the seasonal high groundwater table would need to be confirmed by field demonstration. GSL is to propose a method of demonstration.

**6.** Groundwater monitoring feasibility: GSL recognizes that the feasibility to conduct future groundwater release detection monitoring at the proposed facility must be demonstrated. This includes investigation into fate/transport and hydraulic conductivity, to demonstrate the feasibility of being able to provide early detection, assessment monitoring, and implementation of corrective actions as part of groundwater release detection monitoring. Evaluation of the feasibility will have to consider the proposed landfill footprint, proposed stormwater management system, materials used to establish the footprint subgrade, and proposed leachate management areas.

The meeting concluded with a discussion of process: GSL will provide additional information either separately or bundled together as appropriate. NHDES reminded GSL that the application remains incomplete because additional information is expected to be submitted. A complete application must include all of the information necessary for NHDES to make a decision.

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

# Meeting Attendance Record

**Meeting Topic / Subject:** Granite State LF

**Location:** Hazen 213 **Date:** 9/16/2021

| Name | Company / Affiliation | PHONE NUMBER and/or EMAIL |
|---|---|---|
| Matt Taylor | NHDES / HWRB | 271-3116 |
| James ORourke | NHDES / WMD | 271-2909 |
| Tim White | Sanborn Head | 415-6139 |
| Jay Hargy | NHDES / SWMB | 271-2935 |
| Jaime Colby | NHDES - SWMB | 271-5185 |
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