MEETING AGENDA
January 24, 2024
NHDES Office Building, 29 Hazen Drive, Concord
Rooms 112
10:00 AM

Granite State Landfill (GSL)

I. **Introductions**

II. **Purpose**

III. **Topics**

GSL: Applicant Discussion

DES: Application Review Schedule

DES: Comments on Completeness of Application

IV. **Wrap Up**

Notes:

NHDES kicked off the meeting with introductions. See attendance list.

NHDES outlined the purpose of the meeting was to go over some aspects of the GSL landfill application with respect to a completeness evaluation. NHDES noted that GSL requested the meeting. NHDES also provided a brief overview of the schedule for the permit application process and stated that an incomplete application letter and request for additional information will be issued by February 28, 2024, per the written agreement between NHDES and GSL. NHDES noted that, in accordance with Env-Sw 304.05(d), an applicant must submit all information required to complete an incomplete application within one year from the date the application is initially deemed incomplete by NHDES, that is, the date of the incomplete application letter (February 28, 2024), or the application will be deemed dormant and denied by effect of rule.

GSL then provided a status update regarding permits/approvals required from others including NHDOT and the EPA. GSL would like to start construction in 2025.

NHDES proceeded to provide comments and ask questions about the landfill application as follows:

- GSL confirmed that it has not yet sent notification with the background information to NHDOJ as required by Env-Sw 314.03 and Env-Sw 316

- NHDES identified that it is still missing some abutter notification return receipts. NHDES stated that if abutter notifications were not successful due to failed delivery by the U.S. postal service, then GSL should provide proof that the postal service made multiple delivery attempts.

- Landowner Agreement: NHDES stated that the provided landowner agreement was redacted to the point where NHDES was unable to evaluate certain requirements in the rules. An updated and unredacted (or less redacted) landowner agreement is required. NHDES must be able to see the dates, signatures, terms and conditions relating to easements and rights of way, access controls, post-closure care access, and access for other parties including state and federal regulators. NHDES noted that the agreement can be submitted under Confidential Business Information as described in Env-Sw 200.

- Utilities: A discussion was held on the utility requirements for the landfill. Specifically, a water supply well will be installed in the infrastructure area (see Figure GD-5); a septic system will be installed (instead of combining with leachate); overhead electrical utilities will be run to the infrastructure and footprint areas; and backup generators will be available.

- Traffic Impacts: Consistent with the Solid Waste Rules, traffic discussion focused on on-site traffic issues. CMA outlined how truck numbers for the proposed landfill were determined. CMA stated that the number of smaller trucks (i.e., local traffic vehicles) would be similar to those at the NCES landfill, however, the tonnage proposed for GSL would mean an increase in long distance haul trucks over the amount at NCES. Tonnage per truck varies, but long-haul trucks typically carry between 20 and 30 tons each. A discussion was held on what information was needed regarding on-site flow of traffic, traffic safety, and site security requirements related to the private road. The operating plan will need to address traffic management.

- Siting: Discussions held regarding plans for filling in wetlands if/as allowed by a dredge and fill permit. NHDES requested more information on GSL's plans to ensure conformance with subgrade and stability requirements in Env-Sw 805. NHDES personnel stated that there shouldn't be a presumption of groundwater separation; this will need to be demonstrated. NHDES also requested labeling data for Figures 4, 5 and 11 in the Site Report.

- Stormwater Infrastructure: The different types of stormwater ponds, i.e., infiltration, lined ponds, bioretention (aka rain garden), and the location of such ponds were discussed. NHDES expressed concerns regarding possible leachate releases and whether the proposed stormwater structures would meet the design criteria to mitigate the release of leachate spills required under Env-Sw 805.03(b). GSL stated the stormwater ponds proximate to wetlands are designed for stormwater infiltration into the groundwater and not as detention ponds.

  NHDES also discussed the infrastructure leachate loadout area which, on Figure G&D-5, shows a catch basin and piping directing flow to a lined pond. GSL stated that this area will be redesigned to ensure the catch basin in the loadout area will be redirected to the leachate storage tank(s).

- Geotechnical Report: NHDES had several comments:

  - Appendices 2 and 3 are missing in the application. NHDES stated that we will need input parameters for stability analyses as well. (Appendix K from the Hydrogeological Report was also missing.)

- Subsurface exploration logs, including test pit logs, in or near the footprint are missing. Applicant stated this information should be in the hydrogeological report. NHDES stated that this information needs to be in the geotechnical report as well. Boring logs provided in the geotechnical report appear to be logs only related to the infrastructure area.

- The report did not contain bearing capacity analyses for the infrastructure area. CMA stated that this information will be submitted with final design plans.

- Leachate Management Design: NHDES stated that the application did not include dynamic stability calculations, i.e., equipment loading on the piping system; anchor trench pullout calculations; and geotextile design calculations to ensure that clogging will not be an issue. CMA stated that some of these calculations are not needed and/or that they will be provided with final design plans. NHDES verified the maximum liner slopes are designed at 3H:1V.

  There was a discussion on the piping layout for landfill gas and leachate beneath the access road between the footprint and the infrastructure area. NHDES expressed concerns regarding crushing analyses for these systems. GSL also stated the landfill gas pipe will be insulated where it becomes shallow near the knockout location.

  NHDES confirmed that one leachate collection tank would be installed at the infrastructure area to start and two 10,000 gallon contingency USTs will be installed closer to the landfill footprint. Discussion was held on the manner of backup pumps for the leachate collection system. The leachate generation calculations were discussed. Other than the standard analysis using the HELP model, snow melt was not considered in the leachate generation analyses. CMA also confirmed that calculations were performed for an initial 6 ft thick waste lift, a 96 ft thick midpoint waste lift, and a final waste thickness. NHDES stated it was not able to locate the 6 ft waste lift thickness calculation, but will check again.

  NHDES also stated that, before operations start, written leachate disposal agreements will need to be included in a leachate management plan in the operating plan. The leachate management plan will also need to include the leachate pumpout and removal schedule. Discussions were held on the possibility of loading out leachate outside of the 6 am to 6 pm regular operations hours. NHDES stated that the applicant will have to make the demonstration required by Env-Sw 1105.08(b).

  Additional discussion was then held on the applicant's leak detection plan. A review of the plans (see Figures LP-1 and D-1) commenced and discussions were held on how GSL would determine locations of possible leaks.

- Miscellaneous: Brief discussion held on the historical issue regarding asbestos containing materials (ACM) on the site. Question were brought up relating to the ACM location and disposal information. Applicant and NHDES stated that they both would try to obtain further information.

  NHDES also brought up questions about the hot load area and fire response capabilities as well as snow removal management. GSL stated they would consider these areas further.

Meeting was adjourned at 12:00 noon.

Month January Year 2024

STATE OF NEW HAMPSHIRE VISITORS LOG TEMPLATE

Date: MM/DD/YYYY	Time In	Visitor First & Last Name (Print)	Agency / Company	Reason for Visit (Meeting, Interview, Testing, etc)	Visitor Signature	Time Out	Authorized by (Signature)
1/24/2024	9:41	MARY OAUN	NHDES	Meeting		1205	
1/24/2024	10:00	Kevin Ray	Casella	meeting			
1/24/2024	10:00	Joe Gay	CASELLA	MEETING			
1/24/2024	10:00	Rob Grillo	CMA Eng.	meeting			
1/24/2024	10:00	ADAM SANDAHL	CMA ENGINEERS	MEETING			
1/24/2024	10:00	James O'Rourke	NHDES	meeting			
1/24/2024	10:00	Jaime Colby	NHDES	meeting			
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