



Deicing Technology  
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March 4, 2020, 2020

Mr. Matthew Podniesinski  
Chief, Resource Development Section  
Bureau of Resource Management & Development  
Division of Mineral Resources  
New York State Department of Environmental Conservation  
625 Broadway, Third Floor  
Albany, New York 12233-6500

RE: Annual Report for Mine File #709-3-29-0052; Cayuga Salt Mine  
Permit ID#0-9999-00075-00001  
Towns of Lansing and Ulysses, County of Tompkins  
Town of Covert, County of Seneca

Dear Mr. Podniesinski:

Enclosed is an annual report required in accordance with the Special Conditions section (item numbers 15.a through 15.g) of DEC permit number 0-9999-00075/00001. This report will address each reporting requirement separately (15.a.(1), 15.a.(2), etc.) and drawings are attached as required. As requested, all technical data associated with monitoring of mine stability will be sent to the John T. Boyd Company with attention to Dr. Vincent Scovazzo. A copy of this report is in the mail to Christopher Lucidi, the Region 7 Mined Land Reclamation Specialist and to Steven Army, the Region 8 Mining Program Supervisor.

If any questions arise please bring them to my attention at your earliest convenience.

With Best Regards,

Shawn G. Wilczynski  
Mine Manager – Cargill Salt

Engineering Seismology Group (ESG), and is reviewed weekly by RESPEC. This data indicates the mine is behaving as expected and is stable.

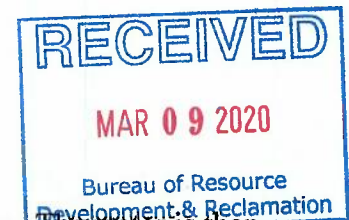
15.a.(5) - Summary of Subsidence Monitoring:

Surface subsidence measurements continue to be performed in accordance with the Mined Land Use Plan. The surface subsidence survey was completed in September of 2019, minor inconsistencies do exist and are being investigated.

15.a.(6) Source and Volume of Water Inflow Into the Mine and Disposition of Such Water:

The following is a list of sources and associated flow rates of water into the Cayuga Mine:

- Production Shaft (#1 shaft) – 25 gallons per minute (gpm)
- Ventilation Shaft (#2 shaft) – Less than 1 gpm
- Service Shaft (#3 shaft) - 1 gpm
- ED Plant Concentrate discharge – 3 gpm
- Other inflows – 2.5gpm
- Total Water Inflow = 32.5 gpm



Most the water is directed to a settling pond located on the 4-level of the mine. The water is then pumped from the settling pond to abandoned areas at the far east end of 4-level as well as to various areas of the active mine for dust control. Water labeled as Other Inflows is fully saturated and is stored in various areas on the 6 Level of the mine.

15.a.(7) - Summary of SPDES Monitoring Data:

For the 2019 calendar year there was no exceedance of the SPDES limits for the storm water outfalls.

15.b - Notification of Non-routine Mining Incidents:

There were no incidents meeting the guidelines for notification as identified in section 15.a.(2).

15.c - MSHA Correspondence Involving Non-routine Mining Incidents:

The Cayuga Mine has not received any citations or correspondence from MSHA regarding non-routine mining incidents as identified in section 15.a.(2).

15.d. - Changes in Mining Method:

The mining methods used at the Cayuga Mine have not been changed in the last year.

15.e. - Surface Subsidence:

Surface subsidence surveys continue to be done in accordance with the Mined Land Use Plan. See section 15.a.(5) of this report.

15.f. - In-situ Rock Mechanics Measurements:

See section 15.a.(4) of this report.

15.g. - Written Citizen Complaints:

No written complaints from citizens were received since the last report (November 2019).

