

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9

270 Michigan Avenue, Buffalo, NY 14203-2915

P: (716) 851-7220 | F: (716) 851-7226

www.dec.ny.gov

SITE INSPECTION REPORT

Facility: Vanchlor Company, Inc. (Vanchlor) Landfill
600 Mill Street, City of Lockport, Niagara County, NY 14094
DEC Site # 932039
EPA ID – NYD991290529

Date: September 3, 2020 (08:30 – 10:45)

Personnel On Site: Steven Moeller (NYSDEC PM); Brian Law (Vanchlor - Operations Manager); Jim Wrazen (VanDeMark Chemical Inc. [VDM] - EHS Engineer); Patrick Martin (Golder Associates - PM); Zach Robison and JoshAeh (Alpha Analytical Inc. - Vanchlor's sampling and analytical laboratory contractor)

Weather: Overcast, 65° F, slight breeze

Background: The site rests remotely along the top of the Niagara Escarpment and consists of a 2.5-acre landfill portion of a 5-acre parcel that was used to dispose of process wastes from the VanDeMark Chemical facility from 1957 until 1982. The site is bounded by Mill Street to the north, a Somerset Railroad Corp rail corridor to the south and east, and Plank Road to the west. Eighteen Mile Creek is located to the south and west and ~100 feet vertically below the site at the base of the Escarpment. Wooded areas surround the capped, grassy landfill. The VanDeMark plant facility is approximately 1/4 mile to the east-southeast and the Vanchlor plant facility is located just to the southeast of the landfill.

In 1988, the landfill was closed in accordance with a NYSDEC-approved Closure Plan that included the installation of a final cover system consisting of two feet of compacted clay overlain by a drainage layer of sand and loam soil and planted with a vegetative cover. Groundwater beneath the site has been impacted by chlorinated VOCs and metals. In 1999, VanDeMark Chemical sold the property to Vanchlor. Following expiration of the Post-Closure RCRA Permit in September 2013, Vanchlor entered into an Order on Consent with NYSDEC (executed July 10, 2014) that required development of a *Site Management Plan* (SMP). The SMP requires landfill inspections and maintenance, groundwater quality monitoring, and submittal of an annual Periodic Review Report (PRR) with an Institutional and Engineering Control (IEEC) certification.

Work Performed: 2020 Annual Groundwater Sampling and Landfill Inspection Event

A team from Alpha Analytical (Zach Robison and JoshAeh) was on site to perform the annual purging/sampling from four onsite, downgradient well locations (VDM-9R, VDM-

10, VDM-11, and VDM-14R) and one offsite, upgradient location (D-55) using dedicated HDPE bailers in accordance with the *Vanchlor Landfill Groundwater Monitoring Plan* (Appendix E of the SMP); well VDM-12, located in the center of the landfill, was dry and could not be sampled (see attached map). The dry conditions found in well VDM-12 are normal and provide a good indication that the cap is preventing infiltration, because prior to landfill capping VDM-12 had sufficient water to allow for sample collection. Wells VDM-9R, -10, -11, -14R, and D-55 will be purged today (many purge to dryness, or near dryness), allowed to recover overnight, and will be sampled tomorrow. A surface water sample will also be collected tomorrow from Eighteen Mile Creek downstream from the southern end of the landfill, but upstream of the City of Lockport Wastewater treatment plant SPDES discharge point.

A Landfill Inspection was performed by Brian Law (Vanchlor), Jim Wrazen (VDM), Pat Martin (Golder), and me. This inspection included observation of the groundwater monitoring well purging activities and inspection of the monitoring wells, the landfill cap, perimeter fence line, and surrounding areas. A locked access gate is present on the northern portion of Mill Street near its intersection with Plank Road. Another locked access gate is present at the northern end of the closed landfill. The inspection began at the northern landfill gate, proceeded in a counterclockwise direction around the inside of the landfill perimeter chain-link fence, and included some areas outside the landfill (see attached map). The wells that are sampled as part of the groundwater monitoring program were marked with signs and appeared to be in reasonably good condition. The top of the protective casing at upgradient well D-55 was replaced by Vanchlor so the well could be adequately secured with a padlock. The landfill had been mowed and the grassy vegetative cover appeared to be well established with no bare spots. No leachate seeps were observed on the landfill or along its perimeter inside the fence line. I inspected the area downslope of the interceptor trench and southeast of well VDM-14R for evidence of leachate seeps, and also checked the area outside the perimeter fence for about 100 feet downslope toward the railroad trestle. I did not find any visible seeps, discoloration, or signs of distressed vegetation.

A small breach in the perimeter fence was noted on the south side of the landfill near well VDM-10. Vandals had broken brackets that connected the chain-link fence to a fence post and peeled a small section of the fence back. Jim Wrazen said he had walked the site about 2 weeks ago and did not notice the fence breach. Brian Law said Vanchlor would repair the fence.



Action Item: Vanchlor to repair the breached fence line near well VDM-10.

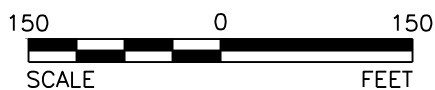
A map showing the monitoring well locations and photos taken during the inspection activities are attached below.

Drawing File: 18102371001.dwg Jun 07, 2018 - 2:57pm



LEGEND

- - - FENCE / APPROXIMATE SITE PROPERTY LINE
- VDM-9R  MONITORING WELL APPROXIMATE LOCATION
-  APPROXIMATE SURFACE WATER SAMPLE LOCATION



REFERENCES

- 1.) BASE MAP GENERATED FROM BING AERIAL IMAGERY.
- 2.) ELEVATIONS ARE BASED ON SITE DATUM.



GOLDER

| | |
|--------|----------|
| SCALE | AS SHOWN |
| DATE | 06/06/18 |
| DESIGN | KMC |
| CADD | RWC |
| CHECK | KMC |
| REVIEW | PTM |

TITLE

**J5 B7 < @CF' @ B8: =@@
LOCATION MAP**

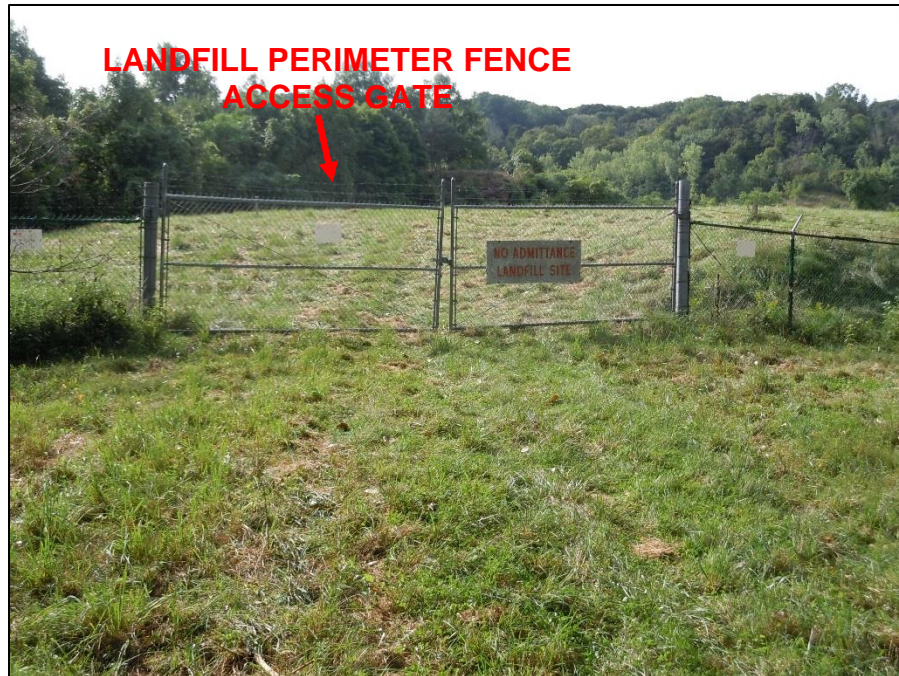
FILE No. 18102371002

PROJECT No. 18102371 REV. 0

VANCHLOR CO. INC.

FIGURE

%



Southeastward view of access gate at north end of landfill.



Views of monitoring wells VDM-11 and VDM-12.



Views of monitoring wells VDM-10 and VDM-9R.



Southeastward view (downslope) near monitoring well VDM-14R showing area inspected for leachate seeps (Note: this photo was taken in December 2018).



Closeup view of monitoring well VDM-14R (left) and a view from outside the landfill upslope toward VDM-14R (right) showing no signs of seeps.



Northward view from southern end of landfill (near VDM-10) toward gate.



Breach in southern landfill perimeter fenceline near well VDM-10.



Views of upgradient monitoring well D-55. Top of protective casing was repaired.