

3.15.3 OLD NEWTOWN LANDFILL

Facility Name: Old Newtown Landfill

A.K.A.: N/A

Location: North/Northeast of Broadwell Road, East of Round Bottom Road

Parcel(s): 50001630001

Lat, Long: 39.142076 -84.325561

Region: Anderson Township

Owner: Martin Marietta Materials Inc.

Operation (yrs): 1980's and 1990's



FACILITY OVERVIEW

The landfill borders Broadwell Road to the south/southwest. A parking lot and staging area for Evans Landscaping is situated between the landfill and Round Bottom Road to the west and a wooded area is situated between the landfill and Round Bottom Road to the north. A pond (former gravel pit operation) borders the property to the east. Access to the landfill can be obtained off Broadwell Road, on the far southwestern corner of the site.

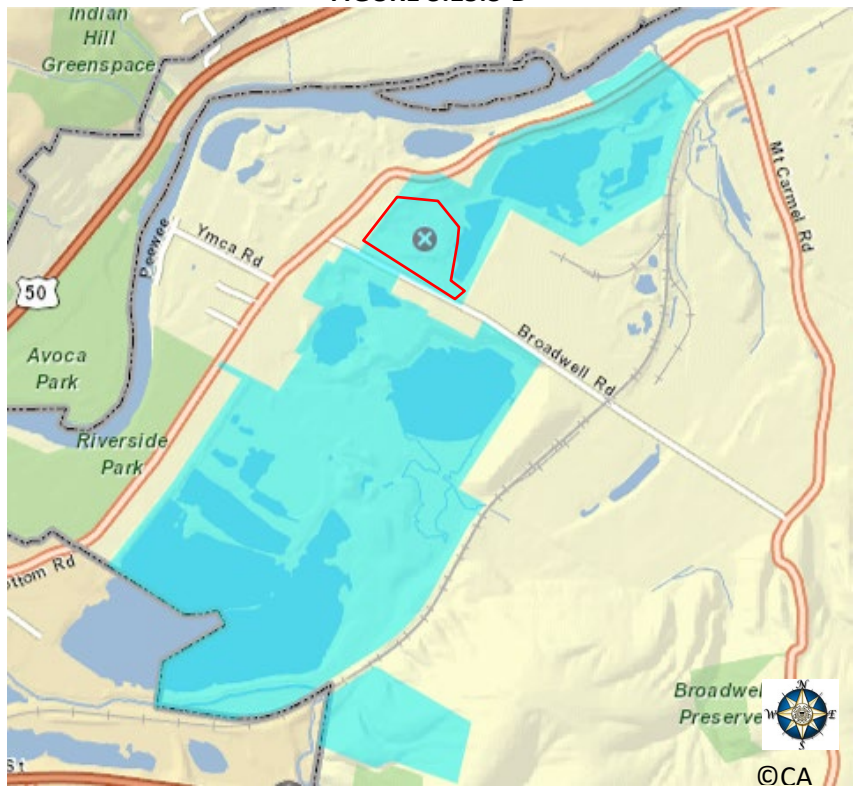
From review of aerials, it appears the gravel pit was mined in the 1970's. Filling of the former gravel pit began in the 1980's. Aerials from the 80's appear to show filling with soil. However, aerials from the 1990's appear to show filling with C&DD (Figure 3.15.3-A). An inspection completed by HCPH in 1995 described the facility as a closed C&DD landfill.

FIGURE 3.15.3-A

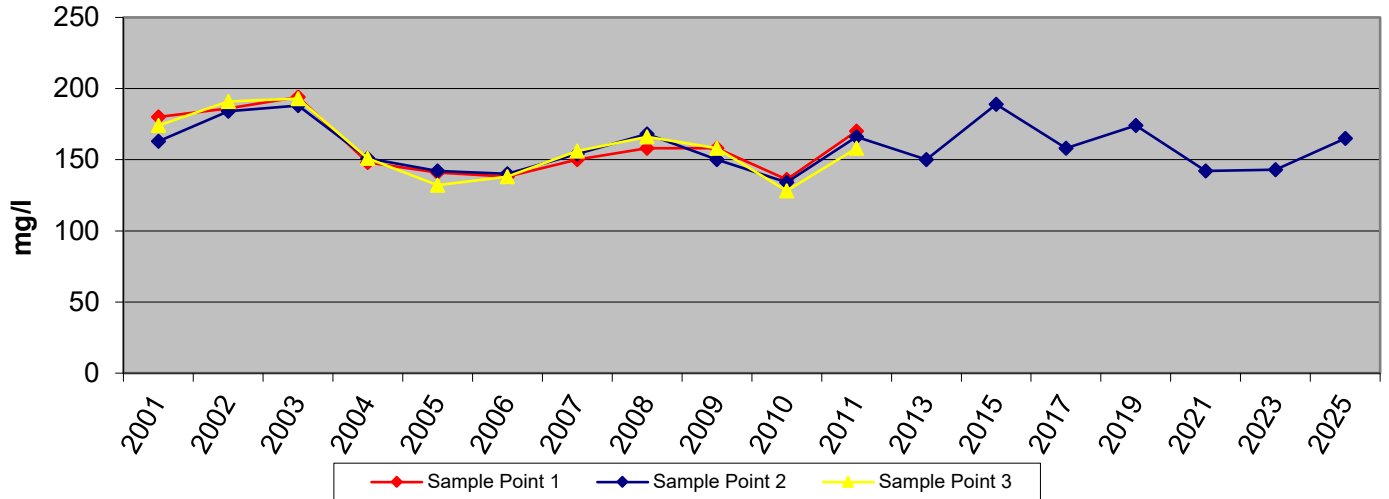


During the 2006 purchase of the property by Martin Marietta Materials Inc., a combination plat was created from a group of parcels surrounding the landfill. The created parcel, Parcel #50001630001, encompasses approximately 488 acres. Figure 3.15.3-B illustrates the location of the landfill within Parcel #50001630001:

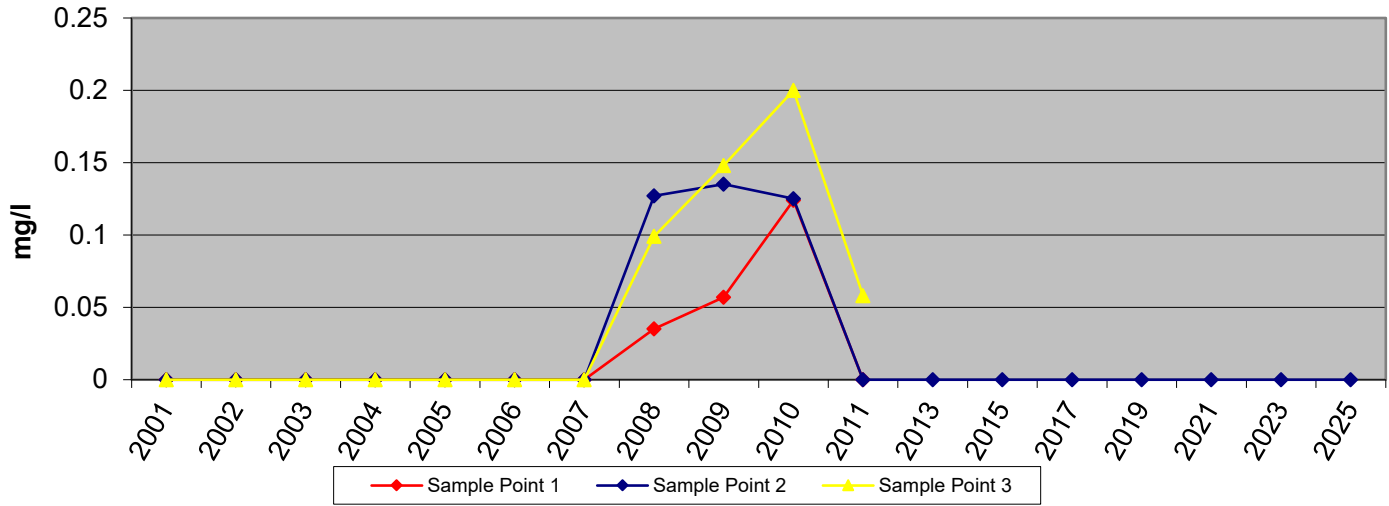
FIGURE 3.15.3-B



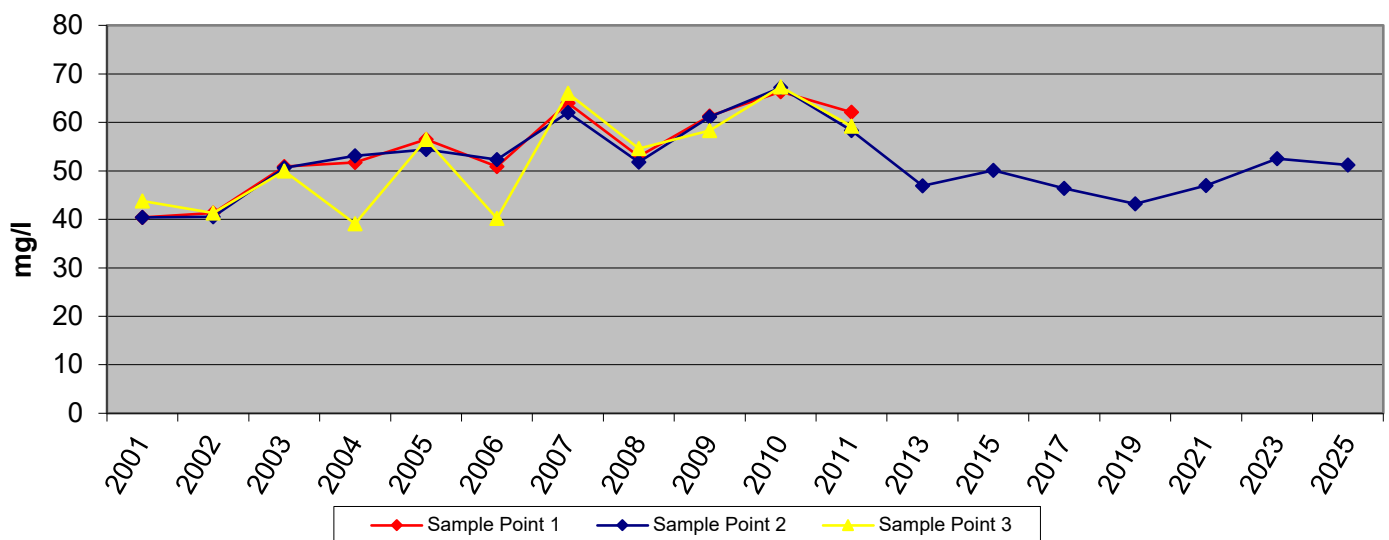
Old Newtown Alkalinity



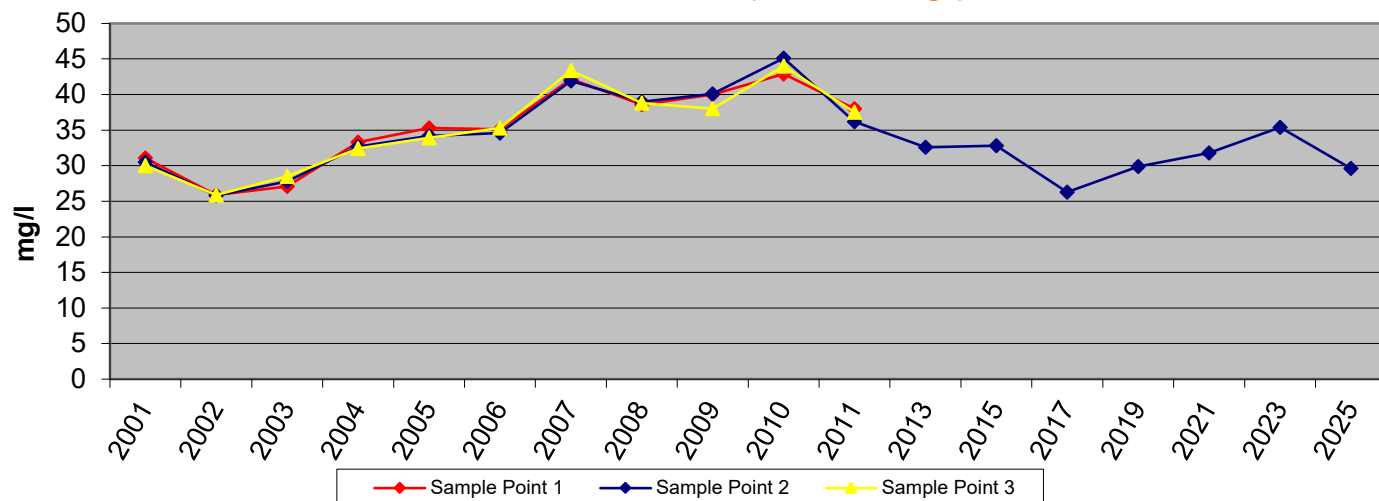
Old Newtown Ammonia



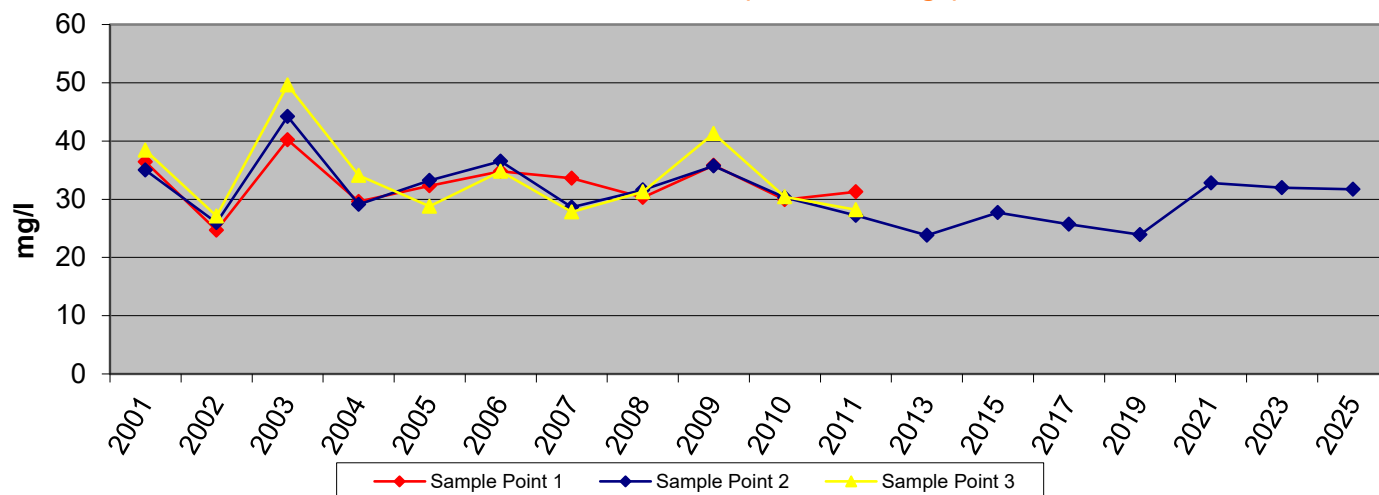
Old Newtown Chloride (SMCL: 250 mg/l)



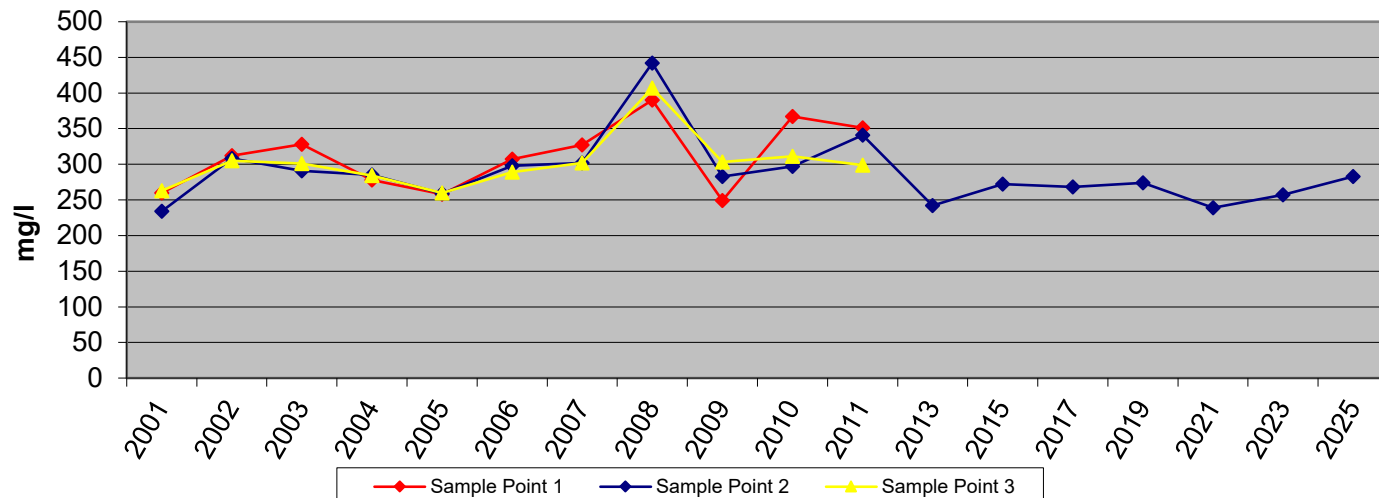
Old Newtown Sodium (SMCL: 250 mg/l)



Old Newtown Sulfate (SMCL: 250 mg/l)



Old Newtown TDS (SMCL: 500 mg/l)



Gas monitoring was conducted on December 29, 2025 (Table 3.15.3-B) primarily along the southern perimeter of Old Newtown Landfill along Broadwell Road, where the closest (<200 feet) occupied structures are located (Figure 3.15.3-F). No detections of methane occurred during 2025 monitoring. Low concentrations of methane (5% LEL or less) had been detected on the far west end of the monitoring area during the previous three years (2022 - 2024) of monitoring. In 2021 methane was detected in one sample point near the center of the monitored area at 2% LEL.

In 2025 carbon monoxide (CO) was detected in 6 sample locations at concentrations ranging from 10 to 102 ppm. This continues a pattern of detecting low levels of CO at various sample points since 2010. In 2024 CO was detected in five sample locations at concentrations ranging from 2 to 13 ppm while in 2023 there was one detection of CO at 6ppm. All the concentrations observed have been below levels of concern. Sampling was not conducted toward the northern perimeter of the landfill because it appears that waste was not deposited within 500 feet of any occupied structures. *(Sampling data for this landfill is in the files at Hamilton County Public Health)*

Table 3.15.3-B (12/29/2025)

Assessment Location Latitude	Assessment Location Longitude	Date and Time	O2 %	LEL %	CH4%	CO ppm
39.140815	-84.323918	12/29/2025 11:51 AM	20.9%	0	0	0
39.140906	-84.324347	12/29/2025 11:47 AM	18.6%	0	0	34
39.141012	-84.324481	12/29/2025 11:46 AM	20%	0	0	0
39.140944	-84.324697	12/29/2025 11:45 AM	20.9%	0	0	0
39.141001	-84.324951	12/29/2025 11:44 AM	20.9%	0	0	0
39.141025	-84.32514	12/29/2025 11:42 AM	20.8%	0	0	0
39.141123	-84.325242	12/29/2025 11:41 AM	20.8%	0	0	0
39.141099	-84.325672	12/29/2025 11:40 AM	20.8%	0	0	0
39.141195	-84.325997	12/29/2025 11:37 AM	20.80%	0	0	0
39.14129	-84.326369	12/29/2025 11:36 AM	20.6%	0	0	10
39.141384	-84.326611	12/29/2025 11:34 AM	20.4%	0	0	23
39.141483	-84.326839	12/29/2025 11:33 AM	20.7%	0	0	0
39.141593	-84.32709	12/29/2025 11:31 AM	20.7%	0	0	13
39.141559	-84.327152	12/29/2025 11:30 AM	20.5%	0	0	0
39.141938	-84.327173	12/29/2025 11:28 AM	20.2%	0	0	21
39.141729	-84.327342	12/29/2025 11:28 AM	19.8%	0	0	102

SITE INSPECTIONS

The site was inspected by HCPH on November 20, 2025. The south end of the property has become increasingly overgrown with honeysuckle, trees, and grass over the last 15 years making it more difficult to access and inspect. Areas of exposed waste which have been identified during previous inspections are still present. Some of the materials appear to be exposed from former landfill activities and other materials may be a result of past open dumping. The areas of exposed waste are completely covered with trees and Honeysuckle. Seeps have also been identified in the same general area during previous inspections but were not present at the time. Whether the seeps are naturally occurring or related to former landfill activities is unclear. The debris and seeps are located in the wooded areas on the Southern portion of the site as depicted in Figure 3.15.3-E.

FIGURE 3.15.3-E



SITE PRESENT DAY

Today, the landfill area sits vacant with little to no activity at the site. The former landfill is covered with established grass, honeysuckle, and trees.



Figure 3.15.3-F
Old Newtown Closed Landfill
Broadwell Road

-  = Surface Water Sampling Location
-  = Approximate Limits of Waste
-  = Area where gas monitoring is conducted approx. every 60 ft.

