



Maryland Department of Environment
Water and Science Administration
Compliance Program
1800 Washington Blvd, Baltimore City, MD 21230
410-537-3510

AI ID: 19044 **Inspector:** Wendy Huang

Site Name: Millersville Landfill & Resource Recovery Facility
Facility Address: 389 Burns Crossing Rd, Severn, MD 21144
County: Anne Arundel County

Inspection Date: June 25, 2019 **Start Date/Time:** June 25, 2019, 08:30 AM
End Date /Time: June 25, 2019, 06:15 PM

Media Type(s): NPDES Industrial Stormwater

Contact(s): Mark Morris – Environmental Monitoring Manager
Kari Hanson- MDE Inspector

NPDES Industrial Stormwater

Permit / Approval Numbers: 12SW1304

Site Status: Active

Site Condition: Noncompliance

Recommended Action: Additional Investigation Required

Inspection Reason: Follow-up (Non-Compliance), Initial Quarterly, Initial Yearly

Evidence Collected: Photos/Videos Taken, Visual Observation

Inspection Findings:

An announced inspection was done in Millersville Landfill and Resource Recovery Facility by Wendy Huang (MDE inspector trainee) and Kari Hanson (MDE inspector). MDE inspectors were accompanied by Mark Morris (Environmental Monitoring Manager of Millersville Landfill and Resource Recovery Facility). The facility is currently listed as Sectors L1 and N2 on the 12 SW National Pollution Discharge Elimination System (NPDES) permit. The facility is a landfill for general household trash and a recycling center. The facility is 567 acres. The weather conditions during the time of inspection was sunny at approximately 85°F. Mr. Mark Morris was present during the records review and site walk through.

SWPPP and records review:

The Stormwater Pollution Prevention Plan (SWPPP) was presented during the records review. The most recent SWPPP is dated November 2018. The facility currently has 8 cells (Cells 1 to 8) that are capped and one cell (Cell 9) is active until 2043. Subcell 9.1 is actively receiving general household trash. Soil at subcell 9.2 (west of subcell 9.1) is currently being excavated. At the end of each operating day, the landfill at subcell 9.1 is capped with soil.

The facility has a total of 9 outfalls, with 4 outfalls (Outfalls 3, 4, 5, and 8) that have identical industrial activities. The 4 outfalls from identical industrial activities have stormwater coming from capped landfill cells. Since the previous inspection on 2/22/2018 by April Rhodes, stormwater pollution prevention and control training and annual comprehensive site inspections were conducted yearly and benchmark monitoring, routine site inspection, and stormwater visual monitoring were documented quarterly. The benchmark results (total suspended solids) were uploaded onto netDMR 29 days after the end of the first quarter of 2019. I calculated the average of 4 consecutive quarters (second quarter of 2018 to first quarter of 2019) for total suspended solids (TSS) concentration for outfall 9 and found average TSS concentration to be 103 mg/L. Only stormwater collected in outfall 9 was monitored for benchmark because the rest of the outfalls do not fall under the L1 benchmark requirement.

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TSS concentration benchmark was higher because cell 8 was in the process of being capped in October 2018. Sediment from Cell 8 flows to stormwater pond 8, where sediment laden water was transferred to Cell 9 (subcells 9.3 and 9.4). The sediment laden water was pretreated and pumped to a western side pond of stormwater pond 9 and ultimately discharges to outfall 9. The capping project for Cell 8 was completed in early 2019 so, MDE inspector will calculate 4 consecutive quarters of benchmark average for the first to fourth quarter of 2019.

Compost production facility:

The facility currently has a portion of the land leased for compost production to an outside contractor. The compost production facility collects, grinds, and compost wood waste. The composting production facility and its potential pollutants were mentioned on the SWPPP. Outfalls 1 and 11 were sampled at the stormwater ponds located at the southwestern part of composting facility and northeastern part of the landfill facility, respectively. Stormwater from inactive cell 1 and composting activity flows to outfall 1. The water from outfall 1 is clear but have algae growing at a pooling area. However, water did not leave the property. Outfall 11's stormwater is clear during the time of inspection and is usually sampled west side of a weir during visual monitoring.

Recycling center:

The recycling center has an oil shed, dumpsters, pretreatment leachate facility, and paint tote area. The oil shed have chemical tanks under secondary containment and a three side metal building. The oil shed ground surface is cleaned six times a year with a power wash. Waste water from the power wash is vacuumed into a truck and disposed offsite. The oil shed collects antifreeze, waste oil, batteries and latex paint. The Anne Arundel County residents drop off household waste, propane tanks, cardboards, paper, plastic, metal, glass, and electronics at the recycling area.

Maintenance/ warehouse area:

These areas include the administrative building, fueling station, truck maintenance, and cardboard recycling facility. The truck maintenance facility maintain heavy equipment and vehicles. Vehicles and heavy equipment are not washed on site. The fuel island has spill kits and have minor amount of old oil stains on the surface. Stormwater from the vehicle maintenance area flows stormwater pond 10, and ultimately to outfall 10, where water discharge is clear.

Leachate facility:

Two leachate tanks are in secondary containment. Once leachate fill up the tanks, they are automatically pumped to the sewer systems that ultimately flows to Patuxent Wastewater Treatment Plant. A pretreatment leachate facility is currently non- active. Stormwater pond 6 is located north of the leachate tanks and south east of the non-active pretreatment plant. Stormwater from the maintenance area flows to a sediment trap, stormwater pond 6, and ultimately to outfall 6, where water discharge is clear. Sediments will be vacuumed from the sediment trap through a manhole as necessary.

Non active landfill cells:

Cells 1 to 8 are currently non- active. The cells are currently capped and no longer disposing solid waste there. Stormwater from these inactive cells (Cells 3, 4, 5, and 8) drains to a stormwater pond and outfalls that correspond to the landfill numbering cell systems. Stormwater from the aforementioned outfalls flows to Wells Branch. Roll offs were observed along the east side of the cells 5, 6, and 7. There were minimal discharge from outfalls 5, 6, and 7 and no discharge from outfall 8. Totes of deionized (DI) water were observed at the east entrance of the gas- to- electric facility plant and northwest of cells 3, 4, and 5. The liquid in the DI water totes looked blue but Mr. Mark Morris was informed by one of the landfill operators at the end of the inspection that it is normal for the DI water in totes to look blue from faraway and clear close up. MDE inspectors did not look at the DI water totes close up.

Stormwater from cell 2 drains to a sand filter/ stormwater pond 2 and outfall sampling did not occur because the riser that water flows into is too far (25 feet away) from the high water line and does not exit the facility.

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Active land fill:

Cell 9 is currently active. Subcell 9.1 is currently accepting household trash and subcell 9.2 (west of subcell 9.1) is being excavated. A borrowing pit was observed west of outfall 9. The borrowing pit contains sediment laden water from stormwater pond 8 during a capping project. The water from the borrowing pit is pumped to the western side pond of stormwater pond 9. The stormwater pond 9 has 3 ponds where water from the eastern and western side ponds flows through a stone weir with filters and into the central pond. Outfall 9 stormwater discharge was clear.

With respect to the above MDE authorization the following violations of Environmental Articles 9, Millersville Landfill and Resource Recovery Facility were observed this date with corrections needed immediately:

- 1) First quarter 2019 benchmark result were submitted on 4/29/2019. **Benchmark parameters should be submitted within 28 days after the end of each quarter.**
- 2) A leased composting facility is on site but is not listed on the SWPPP as Sector A, SIC code 2499. **A Notice of Intent (NOI) should be submitted to MDE and the SWPPP should be updated to state that the facility is also a Sector A industry.**
- 3) Oil stains and absorbance pallets were observed at the west entrance to the oil shed. The contaminants are in the position to enter into a storm drain located at the south side of the oil shed. **Implement good housekeeping by removing the oil stains and absorbance pallets from the oil shed entrance.**
- 4) Residual paint on multiple paint totes were observed south east of the oil shed. **Paint totes should be under covered or removed from the site.**
- 5) Sediment trap were observed at the south side of stormwater pond 6 but was not included on the site map. **Edit the site map to reflect the aforementioned information.**

State law provides for penalties for violations of Maryland Environment Article Title 9 for each day the violation continues. The Maryland Department of the Environment may seek penalties for the aforementioned violations of Title 9 on this site for each day the violation continues.

A follow up inspection will be conducted to verify compliance in approximately 60 days. Any questions regarding this report can be referred to Wendy Huang at 410-387-1181 or at wendy.huang@maryland.gov. A copy of this report has been referred to Mark Morris.

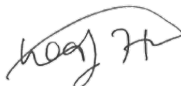
NPDES Industrial Stormwater- Inspection Checklist

<i>Inspection Item</i>	<i>Status</i>	<i>Comments</i>
1. Does the facility have a discharge permit? [Environment Article §9-323(a)(1-3)]	No Violations Observed	
2. Has a Stormwater Pollution Prevention Plan (SWPPP) been implemented as required? [40 CFR Part 122 Subpart B Section 122.26.(c)(1)(i)(A-B)]	No Violations Observed	
3. Is the number and location of discharge outfalls as described within the Stormwater Pollution Prevention Plan (SWPPP)? [40 CFR Part 122 Subpart B Section 122.26.(c)(1)(i)(A-B)]	No Violations Observed	
4. Are identified outfalls representative of stormwater discharges from the site? [40 CFR Part 122 Subpart B Section 122.26.(c)(1)(i)(A-B)]	No Violations Observed	

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<i>Inspection Item</i>	<i>Status</i>	<i>Comments</i>
a5. Does the Stormwater Pollution Prevention Plan (SWPPP) require modifications to prevent runoff of pollutants? [40 CFR Part 122 Subpart C Section 122.42.(b)(1-3)]	No Violations Observed	
6. Are adequate records being maintained for the quarterly routine facility inspections? [Environment Article §9-261(a)(2)]	No Violations Observed	
7. Are adequate records being maintained for the quarterly visual monitoring? [Environment Article §9-261(a)(2)]	No Violations Observed	
8. Are adequate records being maintained for the annual comprehensive evaluation? [Environment Article §9-261(a)(2)]	No Violations Observed	
9. Are adequate records being maintained for the employee training who are implementing activities necessary to meet the conditions of the permit? [Environment Article §9-261(a)(2)]	No Violations Observed	
10. If monitoring of benchmark parameters is required, has the permittee performed the required quarterly monitoring? [COMAR 26.08.04.03A(2)]	No Violations Observed	
11. If monitoring of benchmark parameters is required, has the permittee submitted quarterly benchmark monitoring results electronically within the allotted time? [COMAR 26.08.04.03C(2), 40 CFR Part 127.16]	Out of Compliance	Benchmarks were submitted 1 day late for first quarter of 2019
12. Were visible pollutants observed in the receiving waters or in a position likely to pollute water of the State? [Environment Article §9-322]	Out of Compliance	See FIR
13. If discharges were observed, were samples of the discharge taken? [Environment Article §9-261(c)(1)]	No Violations Observed	

Inspector: 
 Wendy Huang/Date
 wendy.huang@maryland.gov
 410-537-3526

Received by: _____
 Signature/Date

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Report Provided to:
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