**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**
**Division of Water, Bureau of Water Permits**
625 Broadway, Albany, New York 12233
www.dec.ny.gov

# M E M O R A N D U M
## SPDES Permit Equivalent

**TO:** Gail Dieter, DER
**FROM:** Nicholas Mustico, Bureau of Water Permits, DOW
**SUBJECT:** SPDES Permit Equivalent: Cross-County Sanitary / Kessman Landfill, DER Site ID# 3-40-011
**DRAINAGE BASIN**: 13 / 02
**DATE:** September 27, 2023

In response to the modification request from the Cross-County Sanitary / Kessman Landfill dated September 26, 2023, please find the attached effluent limitations and monitoring requirements for the above remediation discharge with the following listed changes:

The effluent flow rate daily maximum limit has been increased from 200 GPM (0.29 MGD) to 300 GPM (0.432 MGD).

The discharge consists of treated water from the initial dewatering of the ponded area and landfill collect system and the continuous dewatering during construction, including precipitation and runoff that contacts potentially contaminated sediments. The treatment system consists of gravity settling and oil/water separation, mechanical filtration via bag filtration, granular activated carbon (GAC) filtration, and an effluent holding tank.

The DOW does not have any regulatory authority over a discharge from a State, PRP, or Federal Superfund Site. DER will be responsible for ensuring compliance with the attached effluent limitations and monitoring requirements, and approval of all engineering submissions. The additional conditions identify the appropriate DER contact person who will receive all effluent results, engineering submissions, and modification requests. The Regional Water Engineer should be kept appraised of the status of this discharge and, in accordance with the attached criteria, receive a copy of the effluent results for informational purposes.

If you have any questions, please email Nicholas Mustico at nicholas.mustico@dec.ny.gov.

Attachment (Effluent Limitations and Monitoring Requirements)

cc: Region 3 Regional Water Engineer (via email, w/attach)
BWP Section Chief, DOW (via email, w/attach)

# EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS

| OUTFALL | DISCHARGE TYPE | LATITUDE/ LONGITUDE | RECEIVING WATER and CLASS | EFFECTIVE | EXPIRING |
|---|---|---|---|---|---|
| 001 | Treated Remediation Wastewater | 41° 29' 56" N 73° 36' 31" W | Wetlands adjacent to Trib. of Mud Brook, Class C(T) | 4/1/2022 | 3/31/2024 |

**The discharges from the treatment facility shall be limited and monitored by the operator as specified below:**

| Outfall and Parameters | CAS No. | Monthly Avg. Limits | Daily Max Limits | Units | Minimum Monitoring Requirements | | FN |
|---|---|---|---|---|---|---|---|
| Outfall 001 | | | | | Measurement Frequency | Sample Type | |
| Flow | NA | Monitor | 0.432 | MGD | Continuous | Recorder | - |
| pH | NA | - | 6.5 - 8.5 | SU | Monthly | Grab | 1 |
| Temperature | NA | Monitor | Monitor | Deg C | Monthly | Grab | 1 |
| BOD5 | NA | Monitor | Monitor | mg/L | Monthly | Grab | 1,2 |
| Total Suspended Solids | NA | Monitor | 10 | mg/L | Monthly | Grab | 1 |
| Total Dissolved Solids | NA | Monitor | Monitor | mg/L | Monthly | Grab | 1 |
| Ammonia, as N | NA | Monitor | Monitor | mg/L | Monthly | Grab | 1,2 |
| 1,2-Dichlorobenzene | 95-50-1 | Monitor | Monitor | µg/L | Monthly | Grab | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | Monitor | Monitor | µg/L | Monthly | Grab | 1 |
| Benzene | 71-43-2 | Monitor | 5 | µg/L | Monthly | Grab | 1 |
| Chlorobenzene | 108-90-7 | Monitor | 5 | µg/L | Monthly | Grab | 1 |
| Chloroethane | 75-00-3 | Monitor | 10 | µg/L | Monthly | Grab | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | Monitor | 10 | µg/L | Monthly | Grab | 1 |
| Ethylbenzene | 100-41-4 | Monitor | 5 | µg/L | Monthly | Grab | 1 |
| Isopropylbenzene | 98-82-8 | Monitor | 3 | µg/L | Monthly | Grab | 1 |
| m,p-Xylene | 179601-23-1 | Monitor | 5 | µg/L | Monthly | Grab | 1 |
| Toluene | 108-88-3 | Monitor | 5 | µg/L | Monthly | Grab | 1 |
| Vinyl Chloride | 75-01-4 | Monitor | 10 | µg/L | Monthly | Grab | 1 |
| delta-BHC | 319-86-8 | Monitor | 0.009 | µg/L | Monthly | Grab | 1,3 |
| Endosulfan sulfate | 1031-07-8 | Monitor | Monitor | µg/L | Monthly | Grab | 1 |
| gamma-Chlordane | 5103-74-2 | Monitor | 0.014 | µg/L | Monthly | Grab | 1,3 |
| PCB, sum | Multiple | Monitor | 0.2 | µg/L | Monthly | Grab | 1,3,4,5 |

**Footnotes:**

1. The measurement frequency of parameters listed on this page shall be Monthly following a period of 12 (twelve) consecutive weekly sampling events showing no exceedances of the stated discharge limitations. If discharge limitation of any parameter listed on this page exceeds the stated limit, the measurement frequency for all parameters listed on this page shall again be weekly, until a period of four consecutive sampling events showing no exceedances at which point monthly monitoring may resume.

2. Influent and effluent sampling shall be taken for informational purposes.

3. Discharge limit is set at the Practical Quantitation Limit (PQL). The actual standard or guidance value concentration is below this limit. Analysis of this parameter shall be conducted using the most stringent USEPA approved method in accordance with 40 CFR 136.

4. PCBs:

    a. The treatment plant operator must monitor this discharge for PCBs using USEPA laboratory method 608. The laboratory must make all reasonable attempts to achieve a Minimum Detection Level (MDL) of 0.065 µg/l.
    b. 0.065 µg/l is the discharge goal. The treatment plant operator shall report all values above the MDL (0.065 µg/l per Aroclor). If the level of any Aroclor is above 0.065 µg/l, the treatment must evaluate the treatment system and identify the cause of the detectable level of PCBs in the discharge.
    c. If the Department determines that effluent monitoring results above can be prevented by implementation of additional measures as proposed by the treatment plant operator in footnote 3.b above, and approved by the Department, the treatment plant operator shall implement such additional measures.

5. Applies to the sum of these substances.

**Additional Conditions:**

1. Discharge is not authorized until such time as an engineering submission showing the method of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. All monitoring data, engineering submissions and modification requests must be submitted to:

    Gail Dieter
    Division of Environmental Remediation
    NYSDEC, 625 Broadway, Albany, New York 12233- 7015,
    Tel: 518-402- 9813

    With a copy sent to:

    Regional Water Engineer, Region 3
100 Hillside Avenue, Suite 1W, White Plains, New York, 10603-2860 Phone: (914) 428-2505

2. Samples and measurements, to comply with the monitoring requirements specified above, must be taken from the effluent side of the final treatment unit prior to discharge to the receiving water body unless otherwise noted above.

3. Only site generated wastewater is authorized for treatment and discharge.

4. Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 6 months prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.

5. Both concentration (mg/l or µg/l) and mass loadings (lbs/day) must be reported to the Department for all parameters except flow and pH.

6. Any use of corrosion/scale inhibitors, biocidal-type compounds, or other water treatment chemicals used in the treatment process must be approved by the department prior to use.

7. This discharge and administration of this discharge must comply with the substantive requirements of 6NYCRR Part 750.

## Monitoring Locations