



STATE OF DELAWARE
**DEPARTMENT OF NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL**
DIVISION OF WASTE AND HAZARDOUS SUBSTANCES
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DOVER, DE 19901

COMPLIANCE &
PERMITTING

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Solid Waste Permit SW-20/01
Permit Type: Industrial Waste Landfill Closure

Effective Date: **May 1, 2020**
Last Modified: n/a
Expiration Date: **May 1, 2025**
Permittee: Conectiv Properties & Investments, Inc. c/o Pepco Holdings
PO Box 231, 88MK64
Wilmington, DE 19899-0231

Pursuant to 7 Del. C., Chapter 60, Section 6003 and Delaware's *Regulations Governing Solid Waste*, the Delaware Department of Natural Resources and Environmental Control issues this permit to Conectiv Properties & Investment, Inc. for the closure of the solid waste landfill known as the Conectiv Site II Ash Landfill located in Wilmington, Delaware. All terms and conditions of this permit are enforceable by the Department.

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I. GENERAL CONDITIONS

A. Permit Modified

Pursuant to provisions of Delaware's *Regulations Governing Solid Waste* (DRGSW), the Delaware Department of Natural Resources and Environmental Control (the Department) hereby issues Permit SW-20/01 for the closure of the Conectiv Site II Ash Landfill (Site II) facility formerly operated by Conectiv Edgemoor and currently owned by Conectiv Properties & Investment, Inc. c/o Pepco Holdings (all associated entities are collectively noted as Conectiv within this permit). The Site II facility is located on Hay Road in Wilmington, Delaware. Permit SW-20/01 replaces Permit SW-86/05.

B. Applicability

This permit applies to:

1. The Site II facility on Hay Road in Wilmington, Delaware.
2. The environmental monitoring, recordkeeping, and reporting for the Site II facility.
3. The closure of the Site II facility.
4. The interim post-closure care of the Site II facility.

C. Permit Application Documents

1. Permit SW-86/05 was first issued on August 11, 1986 and modified on June 9, 1988 in accordance with the following submissions:
 - a. March 2, 1981 application and subsequent information submitted to the Department in support of the permit application.
 - b. March 18, April 29, and May 17, 1998 submittals related to increasing the final elevation of the landfill.
2. Permit SW-20/01 was issued in May 2020 to initiate closure activities in accordance with the following Closure Application Documents submitted by Conectiv:
 - a. *Edge Moor Site II Ash Landfill Closure Application*; prepared for Conectiv by Golder Associates, Inc. on January 3, 2020 and last revised April 2020.
 - b. *Closure Plan*; prepared for Conectiv by Golder Associates, Inc. in January 2020 and last revised on April 2020.
 - c. *Operation and Maintenance Plan*; prepared for Conectiv by Golder Associates, Inc. in January 2020 and last revised on April 2020.

- d. *Groundwater Monitoring Plan*; prepared for Conectiv by Golder Associates, Inc. in March 2020.
3. Other plans, standards, letters, procedures, and policy specifically referenced in this permit.
4. All previously approved and applicable documents, applications, or correspondence.

D. General Conditions

This permit is issued subject to the following general conditions:

1. Conectiv shall conduct activities at the Site II facility in compliance with this permit and all applicable federal, state, county, and municipal environmental statutes, ordinances, and regulations, including, but not limited to: Delaware's *Regulations Governing Solid Waste*, Delaware's *Regulations Governing Hazardous Waste*, Delaware's *Regulations Governing the Control of Water Pollution*, the *Delaware Surface Water Quality Standards*, and Delaware's *Regulations Governing the Control of Air Pollution*. This general condition shall apply to all persons or entities conducting any activity at the Site II facility on behalf of Conectiv.
2. Any transfer of this permit shall be done in compliance with the requirements of DRGSW, including closure and post-closure care financial assurance. Conectiv shall not transfer this permit until they have established a valid Environmental Covenant in accordance with the requirements of 7 Del. C., Chapter 79, Subchapter II. Until transfer of the permit has been completed, Conectiv shall continue to maintain control of, and responsibility for, the Site II facility in compliance with this permit and DRGSW, including, but not limited to, the requirements for financial assurance, closure, post-closure care, recordkeeping, reporting, monitoring, and corrective actions.
3. Conectiv shall maintain a readable and easily accessible copy of the most current version of this permit at Conectiv's M.L.K Jr. Blvd office in Wilmington, Delaware or an alternate location approved by the Department. In addition, Conectiv shall ensure that entities acting on the behalf of Conectiv at the Site II facility during the transmission tower/pole replacement project and closure activities have access to the permit at all times.
4. Upon issuance, Permit SW-20/01 shall remain valid and enforceable throughout the transmission tower/pole replacement project and the closure process of the Site II facility.
5. This permit may be revoked upon violation of any condition of the permit or any requirement of DRGSW after notice and opportunity for hearing in accordance with 7 Del. C., Chapter 60. The Department has the authority to modify this permit at any time.

II. OPERATIONAL REQUIREMENTS UNTIL POST-CLOSURE CARE PERIOD

A. General Operations

1. Operations and activities associated with the transmission tower/pole replacement project shall be conducted in accordance with this permit and applicable portions of the January 2020 application (last revised April 2020). Operations and activities at Site II shall be conducted in a manner that will preclude degradation of adjacent land, air, surface water, or groundwater.

B. Access

1. Access to the Site II facility by unauthorized persons shall be prevented by barriers, fences, gates, or other suitable means. Representatives of the Department may inspect the Site II facility at any reasonable time to verify compliance with this permit (7 Del. C., Section 6024) or DRGSW.
2. Conectiv shall inspect access controls, including the fences and gates, at least quarterly. Conectiv shall document observations made during the inspection using a form acceptable to the Department and shall promptly correct all deficiencies required to maintain compliance with this permit. Conectiv shall maintain records of these inspections in accordance with Permit Condition VII.A.5

C. Staffing

Sufficient numbers and types of personnel shall be available at Site II to ensure any activity conducted at Site II are in compliance with DRGSW and this permit.

D. Equipment

Equipment to ensure any activity conducted at Site II is in compliance with this permit and DRGSW. Anytime at which there are waste and/or earth moving activities, Conectiv shall ensure that one (1) water truck in good working order is always present on-site and one (1) water truck in good working order is readily available for use as a back-up to the on-site vehicle.

E. Acceptable Wastes

1. Only fly ash, bottom ash, industrial sludges, or oil-fired boiler ash from the former Edgemoor Power Plant operations shall be disposed at the landfill.
2. Drill cuttings from the transmission tower/pole replacement project within the limit of disturbance (LOD) associated with the closure of Site II.

F. Prohibited Wastes

No wastes, other than those specified in the permit or approved in writing by the Department, may be disposed at the facility.

G. Surface Water Management

1. Conectiv shall properly maintain the surface water management system at the Site II facility to prevent erosion of the waste and cover, the collection of standing water, run-off from the waste, and minimize run-on into the waste.
2. Conectiv shall coordinate cleanouts and maintenance involving structural repairs with DNREC's Sediment and Stormwater Program or DNREC's Division of Water, as applicable.
3. Conectiv shall inspect the surface water controls at least quarterly. During the transmission tower/pole replacement project and during closure activities, Conectiv shall also inspect surface water controls immediately after a rainfall of 2 inches or more in a 24-hour period. Conectiv shall document observations made during the inspection(s) using a form acceptable to the Department and shall promptly correct all deficiencies required to maintain compliance with this permit. Conectiv shall report and maintain records of these inspections in accordance with Permit Conditions VI.D and VII.A.5.
4. Conectiv shall prevent the accumulation of standing water on the landfill for a period longer than 24-hours after a rain event. If standing water reoccurs at the same location after two (2) or more non-consecutive rain events, Conectiv shall remedy the situation in a timely manner.
5. Conectiv shall conduct an initial periodic review, and all subsequent periodic reviews, of the surface water management system(s) in accordance with DRGSW.

H. Pollution control

1. If at any time during closure there is evidence of a contaminant release from the Site II facility that presents a significant threat to human health or the environment, Conectiv shall take immediate action to mitigate the threat.
2. Conectiv shall take all necessary precautions to identify and prevent the discharge of pollutants from the Site II facility into groundwater or surface water.

I. Maintenance and Preservation of Groundwater Monitoring Wells

1. Conectiv shall maintain and protect all groundwater monitoring wells associated with the Site II facility in accordance with Delaware's *Regulations Governing the Construction and Use of Wells*. Conectiv shall implement controls to protect groundwater monitoring wells from damage and shall ensure that groundwater monitoring wells remain accessible for environmental monitoring required by this

permit. Conectiv shall report any damage to monitoring wells in accordance with the reporting requirements of Permit Condition VI.D.

2. Conectiv shall replace any groundwater monitoring well that can no longer be used to provide monitoring data required by this permit. Conectiv shall notify the Division of Waste and Hazardous Substances' (WHS) Compliance and Permitting Section (CAPS) at least fifteen (15) days prior to installing or abandoning any groundwater monitoring wells. The installation of new groundwater monitoring wells or abandonment of existing groundwater monitoring wells shall be performed in accordance with Delaware's *Regulations Governing the Construction and Use of Wells* after receiving approval from the WHS-CAPS to proceed.
3. Conectiv shall inspect each groundwater monitoring well at least once per quarter. Conectiv shall document observations made during the inspections using a form acceptable to the Department and shall promptly correct all deficiencies required to maintain compliance with this permit. Conectiv shall maintain records of these inspections in accordance with Permit Condition VII.A.5.

J. Litter

1. Conectiv shall provide for litter removal and general cleanliness of the entire Site II facility.
2. Conectiv shall inspect the Site II facility, including its surface water management system and on-site roads, for litter at least quarterly. During each inspection, Conectiv shall document observations and deficiencies using a form acceptable to the Department. Conectiv shall maintain records of these inspections in accordance with Permit Condition VII.A.5.

K. Odor

1. Conectiv shall control malodorous gaseous emissions from the landfill to the extent that there is no perceivable landfill odor beyond the property boundary.

L. Dust Control

1. Conectiv shall operate the landfill in a manner to prevent dust emissions from causing a condition of air pollution (injurious to human, plant, or animal life or unreasonably interfering with the enjoyment of property).
2. Conectiv shall provide for dust control at the facility.
3. Conectiv shall operate the landfill to minimize waste and soil from being tracked off-site. Conectiv shall inspect facility egress points each day in which there are activities associated with the transmission tower/pole replacement project or when earth moving activities are under way. Earth moving activities include, but is not limited to, regrading

of the existing landfill. Conectiv shall maintain records of these inspections in accordance with Permit Condition VII.A.5. In the event that materials are tracked off-site, at a minimum, Conectiv shall provide for street cleaning that same day.

M. Health and Safety

1. Conectiv shall ensure that any confined space entry at the Site II facility is done in accordance with 29 CFR §1910.146.
2. Employees at the facility shall work under appropriate health and safety guidelines established by the Occupational Safety and Health Administration (OSHA).
3. First aid equipment shall be available at the facility.
4. A reliable telephone or radio communication system shall be provided at the facility.

N. Contingency

1. Conectiv shall provide a representative authorized to act on the behalf of the company in regulatory discussions or other matters arising from administration of this permit and who can act as the point of contact for emergencies involving the facility. Conectiv shall provide this information to the Department and report any changes to contact information within ten (10) business days. The information must include the person's name, title, telephone number, email address, geographical address, and mailing address.
2. Conectiv shall provide for emergency response to fires, spills, and other emergencies at the Site II facility and shall provide for an Emergency Coordinator and at least one alternate Emergency Coordinator responsible for directing emergency response activities necessary to protect human health and the environment. Conectiv shall ensure that at least one Emergency Coordinator is available at all times.

III. CLOSURE REQUIREMENTS

A. General Requirements

1. Conectiv shall close Site II in accordance with the conditions of this permit and the documents specified in Permit Condition I.C.2, including the *Technical Specifications* and *Construction Quality Assurance Plan*. Revisions to these specifications or plan related to the waste containment system, stormwater management system, environmental monitoring system, or the capping system shall require Department approval in writing or by documentation in the minutes of the construction progress meeting or similar record approved by the Department.
2. Conectiv shall not allow the disposal of solid wastes at the Site II facility during closure activities unless otherwise approved by the Department in advance.

3. Unless approved in advance by the Department, or allowed by this permit, no activity shall be conducted on the Site II facility during closure activities.
4. Conectiv shall close Site II in a manner that controls, minimizes, or eliminates, to the extent necessary to protect human health and the environment, the post-closure escape of solid waste constituents.
5. Conectiv shall close Site II in a manner that minimizes the need for further maintenance.
6. Throughout the closure activities, Conectiv shall maintain financial assurance for all remaining closure and post-closure care obligations for the Site II facility in accordance with the requirements of DRGSW. Conectiv shall not use financial tests and guarantees for assuring funds for the Site II facility's Post-Closure Care Period or for corrective actions. Conectiv shall provide proof of financial assurance annually in accordance with the requirements of Permit Condition VI.A.

B. Duration of Closure Activities

Conectiv shall initiate closure of Site II starting no later than June 1, 2021 and shall complete installation of the final cover no later than June 1, 2022, unless otherwise approved by the Department. Conectiv shall notify the Department at least 30 working days prior to commencing closure activities.

C. Dust Control

1. Conectiv shall conduct all closure activities at Site II in a manner to prevent dust emissions from causing a condition of air pollution (injurious to human, plant, or animal life or unreasonably interfering with the enjoyment of property). Conectiv shall inspect for visible dust leaving the facility at least once each day during activities that may cause dust emissions of concern.
2. If fill or granular material used for closure activities is hauled to the site in trucks using public roads, Conectiv shall require that all such vehicles be adequately tarped or covered and shall monitor these vehicles upon entry. Conectiv shall administer controls necessary to minimize visible particulate emissions resulting from improperly tarped vehicles operating on public roads.
3. Conectiv shall provide for dust control at the facility.
4. Conectiv shall implement controls to minimize waste and soil from being tracked off-site during closure activities. Conectiv shall inspect facility egress points at least each day during closure activities. Conectiv shall maintain records of these inspections in accordance with Permit Condition VII.A.5. In the event that materials are tracked off-site, at a minimum, Conectiv shall provide for street cleaning that same day.

D. Final Cover Component Storage, Handling, and Installation

Conectiv shall store, handle, and install all final cover components in accordance with this permit, the approved technical specifications, and the manufacturer's guidelines.

E. Construction Quality Assurance (CQA)

1. Prior to staff performing any CQA duties at Site II, Conectiv shall submit their qualifications and resumes to the Department in accordance with the requirements of the *Construction Quality Assurance Plan*.
2. Prior to installation of geosynthetic materials at Site II, Conectiv shall provide the qualifications of the installer, the installers key personnel (i.e. master seamer, and site superintendent), and the Construction Quality Control (CQC) Inspectors to the Department for review.
3. Supporting Documents for Construction Quality Assurance. The CQA consultant shall maintain copies of the following documents on site and shall allow Department representatives to review these document at any reasonable time.
 - a. Construction drawings, including field changes, and as-builts.
 - b. Design modifications.
 - c. Daily and weekly logs maintained by CQA staff.
 - d. Daily CQC logs.
 - e. Records showing type, volume, and source for each fill, granular drainage material, or cover soil place into Site II.
 - f. Manufacturer's certification for geosynthetics used in the capping system.
 - g. Manufacturer's Quality Assurance (MQA) Plans for geosynthetics to be used in the capping system.
 - h. Manufacturer's specifications regarding storage, handling, and installation of geosynthetics to be used in the capping system.
 - i. Records showing material deliveries (including lot and roll numbers) for all geosynthetics shipped to the facility for use in the capping system.
 - j. Records of conformance testing for all geosynthetics used in the capping system.
 - k. Records of all fill and soils testing for the project.

- l. Subgrade acceptance certifications.
 - m. Project photographs.
 - n. Calibration records for instruments used for CQA and CQC monitoring, to include nuclear density gauges and tensiometers.
 - o. Field seam test results.
4. Material testing frequencies and acceptable values shall not be reduced or lowered without Department approval. This shall include all conformance and CQC testing of materials used in the final cover system.

F. Final Report Submission

No later than 30 days after completing closure activities, Conectiv shall submit a final certification report for Department approval. The final report shall certify whether or not the closure of Site II was completed in accordance with the requirement of this permit and the *Closure Plan*, including the *Technical Specifications* and the *Construction Quality Assurance Plan*. The final report shall be certified correct by the construction quality assurance engineer who must be a Professional Engineer registered in Delaware. The final report shall include:

1. A cover letter presenting the Final Report and signed by the permittee after their review.
2. Title page to include date, facility, project name, responsible party (Conectiv), and preparing firm.
3. Signature page.
4. Table of contents.
5. Introductory narrative with project overview.
6. Certification of adequate closure with assessments and conclusions for each major construction activity, including a determination if the work was done in accordance with the permit requirements and whether the work achieved the performance standard intended by the design. Major construction activities shall include at least the following:
 - a. Replacement of applicable transmission towers/poles.
 - b. Closure of Site II.
 - c. Stormwater Management.

7. A determination whether or not the materials used for capping were manufactured, tested, transported, stored on-site, installed, and protected in accordance with the permit requirements.
8. A determination whether or not specified qualifications were met throughout the project. This shall include specified qualifications for manufacturers, installers, master seamers, surveyors, testing laboratories, contractors CQC inspectors, and CQA staff.
9. Record drawings sealed by a Professional Engineer registered in Delaware, including detail drawings for control systems.
10. A topographic drawing showing site contours, stormwater controls, stormwater flow directions, monitoring wells, and the limits of the waste.
11. A facility drawing showing all environmental monitoring locations for Site II, fence lines, stormwater controls, stormwater flow directions, surface water monitoring locations (if required), and the limits of the property which will be regulated under the Post-Closure Care Permit and the Environmental Covenant.
12. A listing of key personnel involved with the project to include business contact information. This listing should include the Conectiv representative(s) for the project, the design engineer, the general contractor's on-site representative, the installer's on-site representative, master seamer, surveyor, and all staff providing CQC and CQA oversight.
13. Supporting documents for Construction Quality Assurance to include all CQA forms, logs, layout drawings, and meeting minutes.
14. Project photographs. Photographs can be provided electronically only if desired.
15. Conectiv shall provide two (2) paper copies of the final report submission and an electronic copy of the entire final report submission. The electronic copy shall be a single file containing tabs/bookmarks to facilitate searching and retrieval of information.

G. Construction Complete Determination

Once the Department receives the final report, it will make a determination of closure in accordance with DRGSW. Conectiv shall continue to provide financial assurance for closure in accordance with the requirements of DRGSW until the Department certifies that closure has been completed in accordance with this permit.

H. Post-Closure Care Plan Updates

No later than 30 days after the Department's certification of closure, Conectiv shall submit final versions of plans associated with the post-closure care of Site II. Updated

plans shall include, but not be limited to, the *Operation and Maintenance Plan* and the *Contingency Plan*. Conectiv shall provide two (2) paper copies and an electronic copy of the updated plans.

IV. INTERIM POST-CLOSURE CARE PERIOD REQUIREMENTS

A. General Requirements

1. After closure work has been completed and until the final post-closure care permit is issued, Conectiv shall provide for post-closure care of Site II in accordance with the requirements of this permit and DRGSW (including financial assurance, access control, maintenance, environmental monitoring, and land use).

B. Cap Maintenance and Protection

1. Conectiv shall maintain the integrity and effectiveness of the capping system. Conectiv shall inspect the cap components weekly for signs of settling, subsidence, erosion, burrowing animals, and other damage to the cap. Conectiv shall document observations made during the inspection using a form acceptable to the Department and shall promptly correct all deficiencies required to maintain compliance with this permit. Conectiv shall report and maintain records of these inspections in accordance with Permit Conditions VI.D and VII.A.5.
2. Except as allowed below, Conectiv shall not remove or alter any portion of the cap without the written approval of the Department. Conectiv may make the following repairs to the cap as long as the repairs do not damage landfill control systems or reduce the effectiveness of the cap:
 - a. Major repairs to the geomembrane or geonet require Department approval; however, Conectiv may initiate minor repairs to these materials after first providing notification to the Department. For the purpose of this permit, minor repairs are considered repairs to damaged areas of geomembrane or geonet measuring less than two (2) feet in any direction. All minor repairs must be done in accordance with the original manufacturer's guidelines. Within thirty (30) days of completion of the repair, Conectiv shall provide a formal report certifying the method and quality of the work completed, qualifications of staff performing the repair, and whether or not the integrity of the cap has been compromised. The report shall be signed and sealed by a Professional Engineer registered in Delaware.
 - b. Without written approval, Conectiv may disturb the top six (6) inches of the cap (the topsoil) for maintenance, regrading, or seeding as long as sediment and erosion controls are properly employed, only clean topsoil is used, and the thickness of the cap is not diminished upon completion of the work. For the purpose of this permit, clean topsoil means the natural, unconsolidated mineral and organic material on the immediate surface of the earth that serves as a natural medium for the growth of land plants, and which can perform as the vegetative layer on the landfill cap. Clean

topsoil contains no trash, debris, or solid waste and cannot be from a state or federal cleanup site. Analytical testing of clean topsoil is not typically required unless its origins are unknown or there is reason to suspect contaminants may be present which may pose an increased risk to human health or the environment.

- c. Conectiv may also fill in erosion rills, gullies, and burrows of any depth (over undamaged geomembrane/geonet only) with clean soil/top soil and then seed to establish vegetation. For the purpose of this permit, clean soil means the natural, unconsolidated mineral and organic material on the immediate surface of the earth that serves as a natural medium for the growth of land plants, and which can perform as the vegetative layer on the landfill cap. Clean soil contains no trash, debris, or solid waste and cannot be from a state or federal cleanup site. Analytical testing of clean soil is not typically required unless its origins are unknown or there is reason to suspect contaminants may be present which may pose an increased risk to human health or the environment
- 3. Conectiv shall mow the vegetative cover on capped portions as needed or at least twice per calendar year
- 4. Conectiv shall remove any sapling trees from capped portion of the landfill.

V. MONITORING

A. General Requirements

- 1. All water quality samples shall be collected in a manner that minimizes sample turbidity. All groundwater-quality samples shall be collected using a low-flowrate method to minimize sample turbidity. Groundwater samples collected for metal analysis shall not be field filtered, so total recoverable metals (particulate and dissolved fraction) can be determined and reported.
- 2. Each groundwater monitoring well shall be sounded during each water-level measuring event and after the completion of sampling at each groundwater monitoring well.
- 3. All water-quality samples will be measured for the following field parameters at the time of sample collection. Field parameters shall be recorded after field parameters have stabilized.

Dissolved Oxygen (DO)	Specific Conductance
pH	Temperature
Oxidation-Reduction Potential (ORP)	Turbidity

- 4. Water-quality laboratory-analyzed indicator parameters:

Alkalinity	Barium	Cadmium
Arsenic	Boron	Calcium

Chloride	Magnesium	Selenium
Chromium	Manganese	Sulfate
Copper	Mercury	Total Dissolved Solids
Fluoride	Nickle	Vanadium
Iron	pH	
Lead	Potassium	

5. Conectiv shall analyze all groundwater and surface water samples required by this permit in accordance with the most current legal edition of EPA Publication Number *SW-846*. If *SW-846* does not contain a test method for a required parameter, that parameter shall be tested according to methods described in the most recent edition of EPA Publication, *Methods of Chemical Analysis for Water and Wastes* or *Standard Methods for Examination of Water and Wastewater*.
6. The Department may observe sampling events conducted by Conectiv and may request split samples for analysis. Representatives of the Department may also enter the facility to collect samples for analysis by an independent laboratory.

B. Groundwater Monitoring

1. Conectiv shall monitor groundwater in accordance with the *Groundwater Monitoring Plan* and the requirements of this permit.
2. Quarterly, Conectiv shall monitor water levels within the shortest time period practicable, prior to the collection of any samples in the following wells.

PMW-01	PMW-02	PMW-03	PMW-04
PMW-05	PMW-06	PMW-07	PMW-08

3. Quarterly, Conectiv shall collect water-quality for the water-quality parameters specified in Permit Condition V.A.

PMW-01	PMW-02	PMW-03	PMW-04
PMW-05	PMW-06	PMW-07	PMW-08

C. Surface Water Monitoring

In the event waste is found to be contaminating surface water, Conectiv shall initiate corrective measures and also promptly sample the impacted surface water and the inlet/outlet of the receiving body of water/stormwater pond. Samples must be analyzed for water-quality parameters specified in Permit Condition V.A.

VI. REPORTING

A. Financial Assurance

Annually, no later than March 1st of each year, Conectiv shall provide assurance that the financial costs associated with the closure, post-closure care, and corrective action (if required) can be met. Conectiv shall demonstrate financial assurance with a valid financial assurance mechanism in accordance with Section 4.1.11.2 of DRGSW and shall provide detailed and accurate cost estimates that have been adjusted for inflation for each cost estimate as applicable (closure, post-closure care, and corrective actions).

B. Annual Environmental Monitoring Report

Annually, no later than March 1st of each year, Conectiv shall submit two (2) paper copies and one (1) electronic version, in a format acceptable to the Department, of the Annual Environmental Monitoring Report for the preceding calendar year. At a minimum, the electronic version must be tabbed and/or bookmarked by major sections to facilitate searching and retrieval of information. Conectiv shall include the following information in the Annual Environmental Monitoring Report:

1. The report shall include a dated title page, a page identifying the preparer including the signature and PG seal, and a detailed table of contents, including a section that details the contents of the electronic media submittal.
2. Conectiv shall include a discussion of findings, conclusions, and recommendations based upon the environmental monitoring results. The narrative portion of the report shall address:
 - a. A description of the annual monitoring activities.
 - b. Groundwater monitoring results, including whether the results indicate a contaminant release from the Site II facility to groundwater, and any corrective measures taken or anticipated.
 - c. Surface water monitoring results (as applicable), including whether the results indicate a contaminant release from the Site II facility to surface water, and any corrective measures required or anticipated.
 - d. A discussion of any problems or concerns encountered during fieldwork, deviations from the sampling procedures, and of any problems with QA/QC procedures.
 - e. Recommendations for future environmental monitoring, maintenance and modification needs for the monitoring network, leachate collection system, and leak detection system, and corrective actions.
3. Tabulation of all data for the reporting year as specified below. Data submitted shall include:
 - a. Groundwater elevation and quantitative results (including field parameters).

- b. Rainfall data from an on-site weather station, or other third-party sources of local weather data. Conectiv shall provide this data via electronic media only.
 - c. Graphical presentations (quality versus time plots) of groundwater and surface water (as applicable).
4. Potentiometric maps for the Columbia aquifer showing the location of each well, the contoured potentiometric surface, and the direction of groundwater flow. These maps shall include an outline of the Site II facility and the adjacent property boundaries of the facility.
 5. Copies of legible field notes, laboratory data sheets, and chain-of-custody forms for the reporting year. Conectiv shall submit these records via electronic media only.

C. Additional Reports

1. The results of groundwater and surface water monitoring samples analyzed per Section V of this permit shall be submitted to the Department within sixty (60) days of the sampling event. Reports shall include:
 - a. A narrative summarizing the results of the monitoring event.
 - b. A potentiometric map for the Columbia aquifer showing the location of each well, the contoured potentiometric surface, and the direction of groundwater flow. This map shall include an outline of the Site II facility and the adjacent property boundaries of the facility.
 - c. A legible copy of all field notes (as applicable), laboratory reports, and chain of custody forms.
 - d. A discussion of any problems encountered during fieldwork, any deviations from the sampling procedures, and of any problems with QA/QC procedures.
 - e. Electronic Data Deliverables containing the results of all required analysis for groundwater and surface water shall accompany this submittal. The electronic files will be in a format amenable for use by both Conectiv and the Department.
2. Conectiv shall report to the Department any intentional or accidental deviation from this permit or any approved plan within one (1) business day of the discovery of the deviation.
3. Conectiv shall report any complaint from the public regarding odor, dust, or litter at the Site II facility. Conectiv shall report this to the Division of Waste and Hazardous Substances' Compliance and Permitting Section. Reporting may be via telephone or email.

4. If Conectiv is unable to comply with any of the reporting requirements listed within the permit, Conectiv must provide written notice and justification to the Department two (2) weeks prior to the reporting deadline for Department approval of the delay.

D. Notifications and Emergency Reporting

1. Conectiv shall notify the Department as soon as practicable, and in no case longer than 24-hours after discovery of the following:
 - a. Fire, explosion, or any other incident at the Site II facility that may have an impact on human health or the environment.
 - b. Any significant erosion of the waste or cover and/or release of waste from the landfill.
 - c. Any anomalous observations during monitoring events; this includes, but is not limited to, any damage to the monitoring well or well casings, well obstructions, well-integrity concerns, and well depth.
 - d. Surface water contaminated with waste.
2. If any event listed in Permit Condition VI.D.1 occurs during business hours, Conectiv shall report the event to the Division of Waste and Hazardous Substances' Compliance and Permitting Section by telephone at 302-739-9403. At all other times, Conectiv shall report the event to the Department's TOLL-FREE 24-HOUR LINE 1-800-662-8802. When reporting an event to the TOLL-FREE line, Conectiv shall disclose that the reporting is required in accordance with Permit SW-20/01 issued by the Division of Waste and Hazardous Substances' Compliance and Permitting Section.
3. Conectiv shall submit a written notification to the Department within five (5) business days following any event requiring "Emergency Reporting." The notification shall include the following:
 - a. Date and time of occurrence/discovery.
 - b. Date and time of reporting.
 - c. Agencies notified.
 - d. Materials and quantities involved.
 - e. Narrative describing how the incident occurred and the actions taken by Conectiv and other response personnel.
 - f. Report of injuries/damage.
 - g. Proposal for follow-up, repair, or remedial actions required and schedule.

E. Assessment of Corrective Measures

The following procedure must be initiated if the action leakage rate or the monitoring data indicate that a contaminant release to groundwater or surface water has occurred.

1. Conectiv shall notify the Department within seven (7) business days after verified analytical data has confirmed that a release has taken place. Confirmation samples

shall be collected from the appropriate monitoring points within fourteen (14) days of receipt of written approval by the Department. These samples shall be analyzed under a priority schedule for the indicator parameters and any other parameters deemed appropriate by the Department. Conectiv shall notify the Department of the results of the confirmation sampling within seven (7) days of receipt of the results.

2. If confirmation sampling does not indicate that a release has taken place, another round of sampling shall take place to determine whether the results of the analysis from the first or second sampling events were anomalous. This re-sampling event shall take place within two (2) weeks of Conectiv sending written notification to the Department of their intent to re-sample. The samples shall be analyzed under a priority schedule. Conectiv shall notify the Department of the results of the re-sampling within seven (7) day of receipt of the results.
3. If the re-sampling indicates that no release has taken place, no further action shall be taken by the Department, and monitoring of the sampling location(s) shall be returned to its/their normal monitoring schedule. If the confirmation or re-sampling round of sampling does indicate that a release has taken place, Conectiv shall perform an assessment of corrective measure within ninety (90) days of confirmation of the release. This assessment shall include:
 - a. Identification of the nature and extent of the release (which may require construction and sampling of additional wells, geophysical surveys or other measures).
 - b. Re-assessment of contaminant fate and potential contaminant receptors (wells and/or receiving streams).
 - c. Evaluation of feasible corrective measures to:
 - (1) Prevent exposure to potentially harmful levels of contaminants (exceeding performance standards).
 - (2) Reduce, minimize, or prevent further contaminant releases.
 - (3) Reduce, minimize, or prevent off-site migration of contaminants.

VII. RECORDKEEPING

A. General Recording and Maintenance

The following information must be recorded and maintained by Conectiv until the end of the Post-Closure Care Period. This information must be available for inspection in Delaware, with reasonable notice, by representatives of the Department:

1. All documents cited in Permit Condition I.C.
2. Monitoring, testing, and analytical data required by previous permits, this permit, and DRGSW.

3. Copies of field notes, laboratory data sheets, and chain-of-custody forms for each sample analyzed.
4. The quantity and types of waste(s) placed into the landfill during its active life.
5. Records of all inspections required by this permit.
6. Records of all periodic inspections of the Site II facility required during its operating life, to include inspections of the leachate collection system and leak detection system, groundwater monitoring wells, and dust control.
7. Reports required by this permit.
8. Deeds, leases, covenants, and any land use agreements in effect. The deed notation, or some other instrument that is normally examined during the title search, will in perpetuity notify any potential purchaser of the property that the land has been used as a solid waste disposal facility, and the use of the land is restricted under DRGSW.
9. Records of all complaints received from the public concerning odors, dust, and litter at the Site II facility during its operating life and during activities associated with the closure of the Site II facility.
10. Repairs made on any landfill control system, including drawings showing the location of the repair.
11. Records of any corrective actions required at the Site II facility.
12. A copy of the Closure Plan for the Site II facility.
13. A copy of the Final Report for the closure of the Site II facility.
14. The Environmental Covenant required by the permit.
15. Contact Information as required by Permit Condition II.N.

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PERMIT MODIFICATION SYNOPSIS

SW-20/01

May XX, 2020: Permit SW-20/01 was issued to replace Permit SW-86/05. Permit SW-20/01 regulates, in accordance with Delaware's *Regulations Governing Solid Waste*, closure activities at Conectiv Properties & Investment, Inc. (CPI) Site II Ash Landfill located on Hay Road in Wilmington, Delaware. This permit incorporates permit conditions consistent with other Solid Waste Landfill Permits issued by the Department, closure requirements, monitoring requirements, reporting requirements, and recordkeeping requirements. This is considered a major modification in accordance with Section 4.1.7 of DRGSW.

DRAFT