ATTACHMENT 5 – RIBITS PRINTOUT

RIBITS
Regulatory In-lieu Fee and Bank Information Tracking System

WI - Waukesha - Veolia Emerald Park

Chair:	USACE
Instrument signed by:	
USACE District:	St. Paul
FWS Field Office:	Green Bay
NMFS Region:	Northeast
BLM State Office:	Eastern States
BLM District Office:	Northeastern States District Office
State:	Wisconsin
County:	Waukesha [WI]
State & Other Permit/Tracking No.:	01-05388-RMG
Total Acres:	78.25
Status/Date:	Approved 01/26/2004
Establishment Date:	01/26/2004
Type:	Private Commercial
Comments:	MC QAR Completed 2/16/2023. Mod executed 2/13/2023. DBC QAR Completed 6/6/2016.
On Public Lands:	No
Calendar:	1 event

OpenLayers Map

Show Service Area

Rank Primary

Bank Credit Classifications

Wetland
- Deep Marsh
- Fresh (Wet) Meadow
- Shallow Marsh
- Shrub-Carr or Alder Thicket

Credit Ledger Summary

Last Transaction: Feb 16, 2023

ATTENTION
Credit reservations and pending transactions are **NOT** reflected in the Available Credits total. Potential purchasers **MUST** contact the Sponsor to verify credit availability.

Credit Classification	Available Credits	Withdrawn Credits	Released Credits	Potential Credits
Wetland				
Shallow Marsh	14.25	0	14.25	14.25
Fresh (Wet) Meadow	21.3	0	21.3	21.3
Shrub-Carr or Alder Thicket	.43	0	.43	.43
Deep Marsh	5.92	0	5.92	5.92

Contact Information

Bank Sponsor
Emerald Park Landfill, LLC
c/o Tim Curry
119 W Gundlach Street
Columbia, IL 62236
Email: tim.curry@gflenv.com
Phone: (618) 806-7392

Bank Sponsor POC
Timothy Curry - Sponsor
Area Landfill Director
Emerald Park Landfill
119 W Gundlach Street
Columbia, IL 62236
Email: tim.curry@gflenv.com
Phone: (618) 806-7392

Regulatory Bank Manager
Marie Kopka

Senior Project Manager
250 N. Sunny Slope Road
Suite 296
Brookfield, WI 53005
Email: marie.h.kopka@usace.army.mil
Phone: (651) 270-5733

Emerald Park Landfill, LLC - Western Expansion Practicable Alternatives Analysis WDNR Additional Information Response Letter, June 6, 2023

TETRA TECH

June 6, 2023

Mr. Marty Dillenburg
Water Management Specialist
Wisconsin Department of Natural Resources
N7725 Hwy 28
Horicon, WI, 53032

Re: Additional Information Request – Emerald Park Landfill Western Expansion (revised June 6, 2023)

Dear Mr. Dillenburg:

On behalf of the Emerald Park Landfill, LLC (Emerald Park), Cornerstone Environmental Group, LLC – a Tetra Tech Company (Tetra Tech) is submitting this response to the request for additional information, (dated March 29, 2023) relating to the permit applications for the wetland disturbance and a drainage channel realignment, IP-SE-2023-68-00721 and IP-SE-2023-68-00722 the letter being responded to, can be seen in Attachment 1. The original response submitted on May 18, 2023, has been revised based on comments received from the Wisconsin Department of Natural Resources received on May 29, 2023. This letter supersedes the letter submitted on May 18, 2023.

Response to WDNR Comments

The WDNR Request for Additional Information detailed four items relative to the initial submittal. Each of the WDNR's comments are provided below, followed by the response.

1. ***CLEAN WATER ACT 401 WATER QUALITY CERTIFICATION***

   a. *Please include a description of any methods and means proposed to monitor the discharge and the equipment or measures planned to treat, control, or manage the discharge*

   Response: The Emerald Park Landfill (EPL) is operating under an existing stormwater pollution prevention plan (SWPPP) developed in the previous Plan of Operation. The latest version of the SWPPP was approved by the WDNR via a General WPDES Industrial Storm Water Discharge Permit (Permit No. WI-S067857-5) on May 14, 2021. The existing SWPPP will be updated to include the expansion area upon approval of the proposed expansion during the development of the new Plan of Operation for EPL that is required for landfill expansion. The proposed SWPPP that would include the expansion will follow similar monitoring procedures to the existing SWPPP and WPDES permit included in (Attachment 2)

   b. *Please include a list of all other federal, interstate, tribal, state, territorial, or local agency authorizations required for the proposed project, including all approvals or denials already received*

TETRA TECH
8413 Excelsior Drive, Suite 160, Madison, WI 53717
Tel +1.877.294.9070 **Fax** +1.877.845.1456 | tetratech.com/waste | tetratech.com

Response: Previous facility approvals include:

The initial feasibility study for EPL received conditional determination from the WDNR in December of 1992. The subsequent Plan of Operation was approved in June 1994 followed by construction of the first phase.

A feasibility report for a Western Expansion of EPL was submitted in 1996. After a contested case the WDNR issued a conditional feasibility determination on a Western Expansion in July 1999. The subsequent Plan of Operation was approved in January 2000.

A feasibility report for the Southwestern Horizontal and Vertical Expansion was submitted to the WNDR in February 2009. That expansion sought 16,316,700 cubic yards of airspace and involved the filling of approximately 14.61 acres of wetlands. The WDNR ultimately approved on October 22, 2010 a reduced footprint which provided 8,144,700 cubic yards of airspace and involved filling approximately 0.812 acres of wetlands. The current proposed western expansion footprint under consideration is subsumed within the original footprint sought in the February 2009 Feasibility Report and further is being processed pursuant to a modified feasibility process pursuant to WDNR's June 11, 2011 letters.

The site also holds an active General WPDES Industrial Storm Water Discharge Permit (Permit No. WI-S067857-5) as mentioned above and an air pollution control permit (Operation Permit No.: 268244130-P30) to operate the gas collections system.

EPL also has a host agreement in place with the affected municipalities: City of Muskego, City of Franklin, Waukesha County, Town of Norway and Racine County. All of the affected municipalities have consented to the proposed expansion footprint which is consistent with the local smart growth land use plan. There is no municipal opposition.

c. *Please provide the following statement: "The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time."*

Response: Emerald Park Landfill hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.

2. PROPOSED STREAM REALIGNMENT

a. *Please provide information on how you intend to carry out the project, including methods, materials, and equipment*

Response: Standard excavation equipment including but not limited to a backhoe, dozer and haul truck will be used to excavate the relocated drainage channel. No materials are anticipated to be added as part of this project.

b. *Please indicate the method proposed to dig or enclose the new channel*

Response: The new channel will be excavated with construction equipment and remain as an open channel.

c. If any riprap will be used, please describe the placement and amount

Response: No riprap will be used within the relocated drainage channel. The excavated channel will be vegetated to stabilize the banks and bottom of the channel.

d. Your proposed construction schedule and sequence of work; including the connection to or enclosure of the existing channel(s). A proposed time schedule must be included.

Response: The existing drainage channel is located within the landfill expansion limits and will be removed during mass excavation activities during construction of the first cell of the landfill expansion. Prior to mass excavation activities, erosion and sediment protection will be provided around the perimeter of the disturbed area in order to reduce sediment from entering the unimpacted existing navigable channel as shown in orange on Attachment 1 of the previously provided Emerald Park Landfill – Stream Relocation Hydrologic and Hydraulic Analysis memorandum dated February 27, 2023. The proposed grades within the cell will also require excavation well below existing ground surface and accumulated stormwater within the excavation area will be managed within the EPL's stormwater management system. A perimeter access road and perimeter ditching will also be extended to the west and along the first cells northern border to convey stormwater to the EPL Stormwater Management system, essentially filling in the remaining channel section to the unimpacted existing navigable portion of the existing drainage channel.

The drainage channel relocation is planned for during the next phase of construction for cover or liner at EPL, likely in 2024. At that time the existing channel will be removed, and the relocated drainage channel section will be constructed and connected to the existing channel. Erosion and sediment control plans for the project will be submitted to the WDNR for review, comment, and approval as part of the Plan of Operation permitting process.

e. Please provide information on the location of any disposal area for dredged or excavated materials

Response: Spoils will be transported to the adjacent EPL and utilized as part of the facility's permitted landfill operations.

f. For disturbances or fill, please provide a description of type, composition, and quality of materials

Response: Fill material will consist of fill materials from the mass excavation activities consisting of clayey soils and stabilized with a layer of topsoil and seeded.

g. Please provide information on how you plan to avoid, minimize and mitigate impacts to waterways

Response: Best management practices will be used such as silt fence around the disturbed areas and rock check dams in concentrated flow locations to protect wetlands and waterways and reseeding of exposed soil to avoid erosion and sediment runoff.

h. Please provide justification on why the stream length will be shorter.

Response: The existing agricultural ditch has less than 1% slope throughout most of its length, because the elevation change over its length is zero feet based on lidar data. In contrast the proposed stream realignment has four feet of elevation change over its length, which allows for it to have equal functionality over a shorter length. Since the proposed stream can provided the same amount of functionality at a shorter length due to the topography, it is justifiable. Cross sections of the ground surface in the existing and proposed locations can be seen on updated figure in Attachment 4.

i. Please provide information on any stream improvements that are being proposed

Response: The proposed channel surface properties will resemble the existing channel composition in order to maintain consistency and characteristics of an agricultural drainage channel. There is limited space for stream improvements due to topography and nearby wetlands, for that reason a riparian buffer zone of 50 feet will be provided on both sides of the stream. This riparian buffer will provide increased habitat for fauna and vegetation, lower the water temperature (when water is present) through shading from the vegetation and increase the water quality by trapping sediments and contaminants before they can enter the channel. The riparian buffer can be seen on the updated drainage area map for the proposed stream in Attachment 5.

3. PROPOSED WETLAND DISTURBANCE – GENERAL INFORMATION

a. Please provide an updated wetland type polygon map (found on page 527 of "EPL West Expansion Wetland Delineation Addendum) based off Figure 1 provided at the bottom of this document. Polygons 1 and 2 outlined in blue have been determined to be classified as forested wetlands.

Response: The reclassification of wetland types from Figure 1 of the Additional Information Request (Attachment 1) have been revised to include the updated wetland type polygon map and is included within Attachment 3. An updated table reflecting the changes in wetland type "Proposed Wetland Impacts by Cover Type and Delineation" can be found in Attachment 6. It should be noted that the forested wetlands are degraded with sparse tree vegetation.

b. Please provide updated acres of wetland disturbance for each wetland type after reclassifying the wetland type polygon map.

Response: A table which includes the updated acres of wetland disturbance for each wetland type after reclassification is provided within Attachment 6.

c. Please update any documents necessary (plans and specs, alternatives analysis, narrative, etc.) to accurately reflect any changes in construction plans since the application document set was submitted. Please ensure total wetlands impacted, impacts per each wetland type, etc. are accurately documented and provided.

Response: Revised, updated, or changed documents and plans are provided within the attachments of this response letter.

4. PROPOSED WETLAND DISTURBANCE – PRACTICABLE ALTERNATIVES ANALYSIS

a. Rearranging proposed facility(s) on the site

i. *It appears that the "Northern Expansion" alternative would provide additional landfill capacity similar to the proposed western expansion but with significantly less wetland impacts. Please provide justification on why this alternative is not feasible, using the "Logistic, Engineering, Safety, Economic reasons alternatives are not practicable" listed below*

Response:

The Northern Expansion alternative included as part of the PAA submittal to the WDNR dated, February 27, 2023 (Figure 5) was revised to exclude the vertical overlay onto the existing final cover system as it is prohibited under NR 506.085. The revised northern expansion alternative was moved north of the existing access road and stormwater ditch to allow for access around the perimeter of the expansion area. The revised Northern Expansion (Alternative 3) is included within Attachment 7. The revised Alternative 3 consists of a 33.2-acre horizontal expansion area with an approximate capacity of 4,265,000 cubic yards which would be further reduced to approximately 4.0 million cubic yards after disposing of the Future Parkland Development, Inc Landfill (FPDI) waste within the revised Alternative 3 footprint. With the addition of a perimeter access road around the perimeter and associated stormwater features the wetland disturbance acreage was revised to 5.0 acres.

The revised Alternative 3 would involve several logistical difficulties. First, the revised Alternative 3 would include the removal of the currently closed FPDI. Disposing of the FPDI waste would also substantially reduce the available capacity of the Alternative 3. Secondly, the sites compost facility is currently constructed above the FPDI and would need to be removed, relocated, re-permitted, and reconstructed on-site per the requirements of the EPL host agreement. Finally, the excavation of the FPDI cover and waste materials is prohibited under NR 506.085 and the removal of a deed restriction prior to disposal of waste within the FPDI footprint would be required.

The compost facility and stockpile relocation would reduce the available capacity on-site for stockpiling of excess clay material and the relocation of both could potentially increase the amount of wetland acres disturbed.

The revised Alternative 3 economically is less practicable at $9.05 per cubic yard when compared to the "selected option" (Alternative 1) at $4.13 per cubic yard. The revised Alternative 1 is provided within Attachment 8 The calculation summary of both alternatives are included within Attachment 9. Reasonable construction and operations costs allow competitive waste disposal fees thereby avoiding adverse economic impacts to citizens and industries that currently use EPL for managing their solid waste. If the Alternative 1 is not developed, it would likely increase waste disposal rates at other surrounding landfills due to the lack of pricing competition that EPL currently provides to the service area. Also, the Alternative 3 is considerably smaller and has a lower site life based on estimated filling rates at approximately 4.0 million cubic yards and 5 years of additional site life than the Alternative 1 at 7.2 million cubic yards and 9 years of additional site life. The reduced design capacity and associated site life of the Alternative 3 would result in reduced host fees to the communities and towns, loss of wages to EPL employees who all live in central Wisconsin, and the loss of local

purchases for services and supplies. Alternative 3 would also result in additional landfill capacity being developed at another location sooner than Alternative 1, which could result in higher waste disposal fees for residents and industries that utilize EPL due to lack of competition and increased travel costs to haulers.

Furthermore, siting, permitting and documenting the relocation of the existing closed FPDI, stockpiles, and recently constructed composting operations would increase this cost significantly. Additional costs would also be incurred to potentially address contamination associated with the open contamination site at the FPDI and to obtain an exemption to NR 506.085 to exhume the closed FPDI Landfill and remove the deed restriction prior to any ground disturbance.

Additional information for justification on why the Alternative 3 is not feasible based on Logistic, Engineering, Safety, and Economic reasons are provided within the revised Table 1 "Long Term Solid Waste Planning - Practicable Alternatives Analysis" and revised sections 3.0 and 4.3 from the PAA submittal is included within Attachment 10 and 12.

ii. *Please provide any relevant documentation related to legal restrictions placed on any areas of land located within the northern expansion alternative.*

Response: The July 1st, 1986 deed restriction is included within Attachment 11. The deed restriction states, "In any event, materials such as garbage, municipal solid waste and putrescible waste, as defined in Wisconsin Administrative Code Section NR 180.04(26), (35), and (47), shall never be dumped at the site." (Attachment 11).

iii. *Please go through due diligence in attempting work through any local, county, state, and/or federal restrictions placed upon any area of land included in the northern expansion alternative that may otherwise prevent the northern expansion alternative from being practicable. Please provide documentation that the applicant has explored this alternative and/or that any relevant government agency would not allow land uses in such a manner.*

Response: Previous permitting attempts including a PAA for the previously approved expansions by EPL included discussions with the City of Muskego and resulted in no change to the deed restrictions. Since the last permitting project at Emerald Park, the area that is north of the Northern Expansion is a residential development. It is expected there would be more opposition to removing the restriction on disposal of municipal solid waste in this area.

b. Reducing the size or number of facility(s) on the site

It appears that the proposed western expansion could be modified to avoid impacting some or all of Wetland W-1. Please alter the proposed western expansion to avoid impacts to Wetland 1, or provide justification on why this alternative is not feasible, using the "Logistic, Engineering, Safety, Economic reasons alternatives are not practicable" listed below.

Response: The western limits of the proposed Western Expansion Alternative 1 have been evaluated to reduce the impacts to wetlands. The revised limit of waste for the western expansion is shown on

Attachment 8. The result of this change reduces the volume of the expansion by 612,000 cubic yards. This footprint reduction reduces the quantity of wetlands impacted by 1.6 acres including a portion of Wetland W1. This design is considered constructable and will allow for standard landfill containment systems to be installed and operated in accordance with NR 500 requirements.

Upon the WDNR review, please contact me by email at luke.specketer@tetratech.com with any further questions.

Sincerely,

CORNERSTONE ENVIRONMENTAL GROUP, LLC – A TETRA TECH COMPANY

Luke Specketer	Mark Torresani
Project Manager	Vice President

Enclosures:

Attachment 1 – Additional Information Request Emerald Park Landfill Western Expansion IP-SE-2023-68-00721 IP-SE-2023-68-00722 (March 29, 2023)

Attachment 2 – Emerald Park Landfill 2022 SWPPP and WPDES Permit

Attachment 3 – Wetland Plant Communities (Updated May 2023)

Attachment 4 – Proposed Stream Realignment Cross Section

Attachment 5 – Proposed Stream Realignment Drainage Areas

Attachment 6 – Proposed Wetland Impacts by Cover Type and Delineation (May 2023)

Attachment 7 – Revised Alternative 3 - Northern Expansion

Attachment 8 – Revised Alternative 1 - Western Expansion

Attachment 9 – PAA Alternative 1 and Alternative 3 Cost Breakdown

Attachment 10 – Table 1 - Long Term Solid Waste Planning - Practicable Alternatives Analysis (May 2023)

Attachment 11 – Future Parklands Landfill Deed Restriction

Attachment 12 – EPL PAA Report Revision Sections 3 and 4

CC: A.J. Kitchens, Project Manager, US Army Corps of Engineers

Tom Nedland, Wetland Section Manager, Wisconsin DNR

Joe-Walter Spear, Jr., P.E. JSA Environmental

Scott Kroger, City of Muskego

Daniel Otzelberger, General Manager, GFL Environmental

Timothy Curry, Area Landfill Director, GFL Environmental

Timm Speerschneider, Attorney, DeWitt Law Firm

Wes Webendorfer, Partner, DeWitt Law Firm

Mark Torresani, Project Manager / Vice President, Tetra Tech

Luke Specketer, Assistant Project Manager, Tetra Tech

Nick Dykstra, Assistant Project Manager, Tetra Tech

ATTACHMENT 1 – ADDITIONAL INFORMATION REQUEST EMERALD PARK LANDFILL WESTERN EXPANSION IP-SE-2023-68-00721 IP-SE-2023-68-00722 (MARCH 29, 2023)

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
N7725 Hwy 28
Horicon, WI, 53032

Tony Evers, Governor
Adam N. Payne, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

March 29, 2023

Daniel Otzelberger
W124 S10629 S. 124th Street
Muskego, WI 53150

IP-SE-2023-68-00721, IP-SE-2023-68-00722

Dear Mr. Otzelberger:

Thank you for continuing to work with the Department of Natural Resources (DNR) on your proposed project. This letter contains important information regarding your DNR permit applications for wetland disturbance and a stream realignment in Waukesha County.

We have reviewed your application materials and are writing to notify you that **we need additional information to complete your application** and determine if your proposed project will meet applicable legal standards. It is important that we receive clear detailed information about your project requirements and constraints so the permit application file adequately explains your project and allows the DNR to issue a decision that is supported by the file information. **Specifically, we need the following information:**

1. CLEAN WATER ACT 401 WATER QUALITY CERTIFICATION

a) Please include a description of any methods and means proposed to monitor the discharge and the equipment or measures planned to treat, control, or manage the discharge

b) Please include a list of all other federal, interstate, tribal, state, territorial, or local agency authorizations required for the proposed project, including all approvals or denials already received

c) Please provide the following statement: "The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time."

2. PROPOSED STREAM REALIGNMENT

a) Please provide information on how you intend to carry out the project, including methods, materials, and equipment

b) Please indicate the method proposed to dig or enclose the new channel

c) If any riprap will be used, please describe the placement and amount

d) Your proposed construction schedule and sequence of work; including the connection to or enclosure of the existing channel(s). A proposed time schedule must be included.

e) Please provide information on the location of any disposal area for dredged or excavated materials

f) For disturbances or fill, please provide a description of type, composition, and quality of materials

g) Please provide information on how you plan to avoid, minimize and mitigate impacts to waterways

h) Please provide justification on why the stream length will be shorter.

i) Please provide information on any stream improvements that are being proposed.

3. PROPOSED WETLAND DISTURBANCE – GENERAL INFORMATION

a) Please provide an updated wetland type polygon map (found on page 527 of "EPL West Expansion Wetland Delineation Addendum) based off Figure 1 provided at the bottom of this document. Polygons 1 and 2 outlined in blue have been determined to be classified as forested wetlands.

b) Please provide updated acres of wetland disturbance for each wetland type after reclassifying the wetland type polygon map.

c) Please update any documents necessary (plans and specs, alternatives analysis, narrative, etc.) to accurately reflect any changes in construction plans since the application document set was submitted. Please ensure total wetlands impacted, impacts per each wetland type, etc. are accurately documented and provided.

4. PROPOSED WETLAND DISTURBANCE – PRACTICABLE ALTERNATIVES ANALYSIS

a) Rearranging proposed facility(s) on the site

1. It appears that the "Northern Expansion" alternative would provide additional landfill capacity similar to the proposed western expansion but with significantly less wetland impacts. Please provide justification on why this alternative is not feasible, using the "Logistic, Engineering, Safety, Economic reasons alternatives are not practicable" listed below

2. Please provide any relevant documentation related to legal restrictions placed on any areas of land located within the northern expansion alternative.

3. Please go through due diligence in attempting work through any local, county, state, and/or federal restrictions placed upon any area of land included in the northern expansion alternative that may otherwise prevent the northern expansion alternative from being practicable. Please provide documentation that the applicant has explored this alternative and/or that any relevant government agency would not allow land uses in such a manner.

b) Reducing the size or number of facility(s) on the site

It appears that the proposed western expansion could be modified to avoid impacting some or all of Wetland W-1. Please alter the proposed western expansion to avoid impacts to Wetland 1, or provide justification on why this alternative is not feasible, using the "Logistic, Engineering, Safety, Economic reasons alternatives are not practicable" listed below.

Logistic, Engineering, Safety, Economic reasons alternatives are not practicable

Logistical reasons that alternatives are not practicable

- Description of the logistical difficulty(s)
- Number and characterization of affected individuals or groups (e.g., occupant, employees)
- Frequency of effect
- Quantify how the degree of difficulty varies with each alternative analyzed
- Assessment of alternative methods of overcoming logistical difficulties

Engineering or technical reasons that alternatives are not practicable

- Identification of the source of methods or standards used (citations to literature or professional publications)
- Calculations relevant to the application of the method or standard to the project
- References to the methods or technical standards used in federal, state or local regulations (where they occur)

Safety data or reasons that alternatives are not practicable

- A copy of an official written determination by a municipal governing body or the state transportation agency that a discharge into a non-federal wetland is necessary for public safety, including the basis for the determination
- Description of safety hazard
- Number and characterization of affected individuals or groups (e.g, school children, employees)
- Nature of effect (e.g., death, injury, property damage)
- Frequency of effect
- Quantify how the degree of hazard varies with each alternative analyzed
- Assessment of other methods of hazard reduction

Economic reasons that alternatives are not practicable (supply all data listed in this section) Data must include all phases of a project or all adjacent land in common ownership. Copies of source documents or supporting reference information must be provided.

- Total acreage of project
- Month and year that project planning began
- Property purchase date(s)
- Property purchase price(s)
- Zoning classification(s)
- Description, dates and cost of infrastructure or improvements to the property
- Total number of lots or parcels that have been or will be divided for commercial or residential uses
- Number, size, sale date and price of any parcels previously sold or leased
- Other indicators of financial return to date
- Description of alternative development scenarios
- Indicators of property value, including copies of offers to purchase, appraisal report (including scope and assumptions of appraisal, source and certification of appraiser), assessor's estimated market value, or price and property description for comparable real estate sales
- Real estate tax data
- Market studies (current market conditions and trends)
- Construction cost estimates
- Financing cost estimates
- Comparable sales, leasing rates (for ultimate uses)
- Calculation of projected amount or rate of return

Notes:
The 1987 U.S. Army Corps of Engineers Wetland Delineation Manual is available at
http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/reg_supp.aspx

Information on Wisconsin's Wetlands is available at
http://dnr.wi.gov/topic/wetlands/

Information on definitions and standards for wetland permitting in Wisconsin is available at
http://dnr.wi.gov/topic/Waterways/construction/wetlands.html

Please submit the requested information to me as soon as possible so we can determine your application to be complete and continue to the next step in the process. Please be sure to point out any additions or alterations to the project that are different from the original permit application. This is also an opportunity for you to explain how your project will avoid or minimize impacts to wetlands and public waters.

Please note that once your permit application is determined to be complete, the Department is legally required to review and issue a permit decision, which means we will be unable to refund your permit fee. At any time during the review process, you have the right to send us a letter or email requesting your application be withdrawn.

If we do not receive the requested information or hear from you in response to this letter within 30 calendar days from the date of this letter, we may dismiss your application.

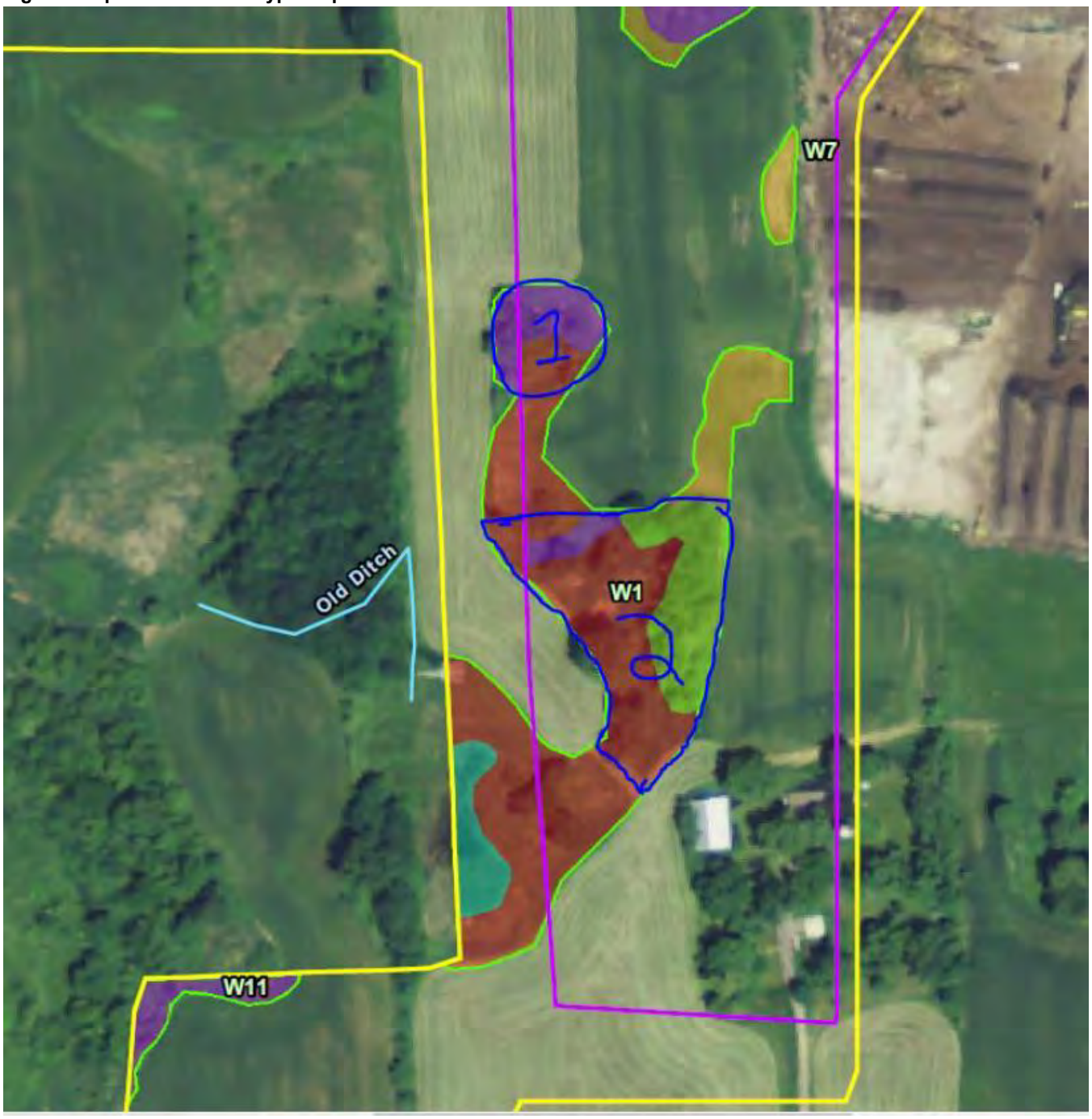
If you have any questions, please contact your local Water Management Specialist, Marty Dillenburg at (920) 296-6507 or email marty.dillenburg@wisconsin.gov.

Sincerely,

Marty Dillenburg
Water Management Specialist

Copy to: Luke Specketer, Tetra Tech
A.J. Kitchen, Project Manager, US Army Corps of Engineers
Tom Nedland, Wetland Section Manager, Wisconsin DNR

Figure 1: Updated Wetland Type Map



ATTACHMENT 2 – EMERALD PARK LANDFILL 2022 SWPPP AND WPDES PERMIT

October 14, 2022
File No. 25221179.04

Mr. Daniel Otzelberger
GFL Environmental
W124 S10629 South 124th Street
Muskego, WI 53150

Subject: Storm Water Pollution Prevention Plan Update
Emerald Park Landfill
W124 S10629 South 124th Street, Muskego, WI 53150

Dear Mr. Otzelberger:

Enclosed is the updated Storm Water Pollution Prevention Plan (SWPPP) for the Emerald Park Landfill located at W124 S10629 South 124th Street, Muskego, Wisconsin. Updates include:

- Updating to include current site operations, notably the recently constructed 165,000-gallon leachate tank, current site outfalls (removal of Outfall 1B from Sedimentation Basin #1 due to damage to the structure), and storm water basins (proper labeling of Sedimentation Basin #7);
- Adding the yard waste composting operations and associated sedimentation basin and outfall located north of the Emerald Park Landfill on the closed Future Parkland Landfill;
- Incorporating changes based on the reissued Wisconsin Department of Natural Resources (WDNR) Tier 2 industrial storm water permit that became effective on May 31, 2021; and,
- Streamlining the report format.

Presented below are the initial implementation steps for the SWPPP and the ongoing monitoring and recordkeeping items.

1. **Sign the "Storm Water Pollution Prevention Plan Certification Page."**
2. **Quarterly Wet Weather Inspections**: Complete quarterly wet weather inspections using the form in **Attachment A1**, and maintain inspection records with the SWPPP. Quarterly wet weather inspections are described in **Section 4.0**.
3. **Quarterly Site Inspections**: Complete quarterly inspections of potential pollution source areas using the form in **Attachment A2**. Quarterly site inspections are described in **Section 4.0**.
4. **Best Management Practices (BMPs) Maintenance**: Complete maintenance on BMPs as needed. BMPs are described in **Section 3.0** and **Table 2**.

5. **Non-Storm Water Discharge Evaluation:** Visually evaluate outfalls for non-storm water discharges during dry periods twice annually and record on the Non-Storm Water Discharge Evaluation and Documentation form (**Attachment B**). Non-storm water discharge evaluations are described in **Section 4.0**.

6. **Annual Facility Site Compliance Inspection (AFSCI):** Complete the AFSCI annually. The annual report is discussed in **Section 4.0**. Print and keep copies of the annual report in **Attachment C**.

7. **Annual Impaired Waterbody Review:** By February 15th of each calendar year, review the Wisconsin Section 303 (d) list to determine whether the facility discharges a pollutant of concern to an impaired waterbody and/or a waterbody included in state- and federally-approved total maximum daily load (TMDL). Document the review on the form in **Attachment D** and with the comprehensive AFSCI (**Attachment C**). The annual review is discussed more in **Section 4.0**.

8. **Storm Water Personnel Training:** Conduct an annual training session for personnel that have storm water pollution prevention responsibilities, and use the form in **Attachment E** to document the training. Training requirements are described in **Section 5.0**.

9. **Record Retention:** Maintain SWPPP records/documentation for a minimum of 5 years. Recordkeeping requirements are discussed in **Section 6.0**.

10. **SWPPP Update**: Update the SWPPP as needed as described in **Section 7.0**. Document SWPPP updates using the form in **Attachment F**.

If you have questions regarding this SWPPP update, please contact us at 608-224-2830.

Sincerely,

Mark Hammers
Project Manager
SCS Engineers

Jared Omernik, P.E.
Project Manager
SCS Engineers

MBH/lmh_REO/JMO

cc: Kari Rabideau, GFL Environmental

Encl. SWPPP

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Storm Water Pollution Prevention Plan

Emerald Park Landfill
W124 S10629 South 124th Street
Muskego, Wisconsin 53150

SCS ENGINEERS

25221179.04 | October 14, 2022

2830 Dairy Drive
Madison, WI 53718-6751
608-224-2830

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STORM WATER POLLUTION PREVENTION PLAN
CERTIFICATION PAGE

Emerald Park Landfill
W124 S10629 South 124th Street
Muskego, WI 53150

SCS Engineers prepared this Storm Water Pollution Prevention Plan for Emerald Park Landfill in accordance with Chapter NR 216, Wisconsin Administrative Code (NR 216).

> "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information; the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for providing false information, including the possibility of fine and imprisonment for knowing violations."

Name: Daniel Otzelberger

Title: Landfill General Manager

Emerald Park Landfill LLC

Signature Daniel Otzelberger

Date 10/17/22

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1.0 INTRODUCTION

1.1 GENERAL INFORMATION

This Storm Water Pollution Prevention Plan (SWPPP) has been prepared for the Emerald Park Landfill (EPL) located at W124 S10629 South 124th Street, Muskego, WI 53150 (see **Figure 1**). EPL will maintain a copy of this plan on site and make it available to the Wisconsin Department of Natural Resources (WDNR) upon request.

SIC Code:	4953 Refuse Systems (Landfill, sanitary; operation of)
Applicable Storm Water Pollution Prevention Regulation:	Chapter Natural Resources (NR) 216, Storm Water Discharge Permits Subchapter II, Industrial Storm Water Discharges
Associated Permit:	Wisconsin Pollutant Discharge Elimination System (WPDES) Permit No. WI-S067857-5, Tier 2 Industrial Facilities, Storm Water Associated with Industrial Activity (herein referred to as the General Permit). The permit is included in **Attachment H.** A cross reference table showing how this SWPPP complies with the General Permit is included in **Attachment G**.
Facility Map:	**Figures 1** through **4** show the facility, and have been prepared to meet the requirements of Section 3.3.2.2 of the General Permit.
General Description of Facility Operations:	• The facility operates a licensed landfill which receives municipal, commercial, and industrial non-hazardous solid waste. • The site includes closed and active landfill areas. • The site includes a maintenance shop, pole barn, scale and office building, police training center, landfill gas treatment plant, blower building, and two leachate load-out areas. • The remainder of the property mainly consists of gravel and asphalt access roads, soil stockpiles, and storm water management features. • The facility also has a compost and concrete recycling operation that occurs outside the landfill limits. • Perimeter areas of the site are vegetated or farmed.

Facility-Specific Industrial Activities:	**Landfill Operations:** Waste is hauled to the active landfill and disposed. **Site Construction/Soil Disturbance:** Construction activities occur at the facility on an as-needed basis to construct landfill liner or cover systems, including associated storm water features and roads, and to support landfill operations. Additional soil disturbance results from the use of on-site soil for daily and intermediate cover. Excess soil is stockpiled on site from excavations performed during landfill and ancillary feature development. **Maintenance:** Vehicle and equipment maintenance is performed in the Maintenance Building. The maintenance shop contains oil drums. The maintenance shop also contains a sump connected to a holding tank that is routinely pumped by an outside vendor. **Landfill Gas Treatment Plant:** As part of EPL's gas collection and control system, a portion of the landfill gas collected by the landfill is processed for subsequent sale, including on-site treatment at the landfill and subsequent transfer via gas pipeline for use by the Milwaukee Metropolitan Sewerage District. **Leachate Storage and Transfer:** Storm water that comes in contact with waste is treated as leachate and routed to the landfill's leachate management system. Leachate collected is pumped from the landfill to the Milwaukee Metropolitan Sewerage District Waste Water Treatment Plant or to the on-site leachate storage tank. From the tank, leachate is either unloaded on site into a truck and hauled to a leachate treatment facility or to the landfill active area and recirculated. **Outdoor Storage:** Some equipment, containers, and materials are stored outdoors. The facility includes a public drop-off area with outdoor open roll-off containers or carts for cardboard/paper, comingled recyclables, tires, batteries, appliances, scrap metal, construction debris, and municipal solid waste. **Fueling**: Landfill equipment is fueled in the active area of the landfill via portable aboveground storage tanks (AST) with diesel fuel stored within the active landfill area. Other vehicles and equipment are fueled on site via ASTs with unleaded gasoline and diesel located outside north of the pole barn (see AST6 and AST7 on **Table 1**).

	Vehicular Traffic and Parking: Vehicles travel throughout the property to access various site operations. Roads are shown on **Figures 2** and **3**. Landfill equipment is parked overnight within the landfill area. Other vehicles are parked overnight by the maintenance shop. **Concrete Recycling Operations**: Demolition concrete is crushed for road-base material on a pad west of Phase 7 that will be eliminated during construction of Phase 8 North and Phase 8 South. **Yard Waste Composting Operations**: Yard waste is chipped and composted on a gravel pad north of EPL on the closed Future Parkland Landfill. See **Figure 4**. **Salt Storage:** Salt is stored onsite for seasonal use (generally from November to April) in the pole barn.
Facility Runoff:	• Runoff from the landfill areas with final or intermediate cover is routed to on-site sedimentation basins. • Runoff enters the basins and then discharges through a biofilter to drainage swales. • Runoff from active areas of the landfill is routed to the leachate collection system. • Non-landfill areas of the property drain to drainage swales or sheet flow off site. • Perimeter areas of the site are vegetated or farmed. • **Figures 2** through **4** show the facility runoff patterns.

Receiving Water:	
- Immediate Receiving Water:	The nearest named receiving water for runoff from the facility is the Big Muskego Lake [from USGS 7.5 min topo map or SWDV], located approximately 1.5 miles northwest of the facility. Big Muskego Lake is classified as follows: Outstanding Resource Water: No Exceptional Resource Water: No Fish and Aquatic Life Water: Yes Impaired: Refer to **Attachment G**
- Downstream Water Classified as Impaired:	Big Muskego Lake drains to Wind Lake via the Muskego Canal. Wind Lake is impaired for low dissolved oxygen and excess algal growth. Refer to **Attachment G** for the receiving water classification review.
- Modifying the SWPPP and Implementing Controls/BMPs for Sites that Discharge to Impaired Waters:	Wind Lake is impaired with the pollutant of concern being total phosphorus. In response, a BMP has been added to **Table 3** (Fertilizer Use).
Outfalls:	Outfalls are described in **Table 2** and shown on **Figure 2** through **Figure 4**.
Known Non-storm Water Discharges to Storm Drainage System:	There are no known non-storm water discharges at the facility.
Plans Incorporated by Reference:	Appendix H (Storm Water Management Calculations) of the EPL Southwest Expansion Plan of Operation (Southwest Expansion POO) prepared by RMT, Inc., dated January 2011. EPL Spill Prevention, Control, and Countermeasure (SPCC) Plan prepared by SCS Engineers (SCS).
Facility Runoff to Municipal Separate Storm Sewer System (MS4):	Not applicable.

Runoff Performance Standards:	As part of the Southwest Expansion, the storm water management system was designed to meet the performance standards in NR 151.122 and 151.123, and NR 504.09, Wisconsin Administrative Code (Wis. Adm. Code), in accordance with WDNR guidance (EGAD #3800-2021-01). Design information is included in Appendix H of the Plan of Operation as noted under the "Plans Incorporated by Reference" section above.
Summary of Existing Sampling Data or Observations:	Site personnel monitor storm water runoff in accordance with the requirements of the General Permit (**Section 4.0**). Copies of existing monitoring data are kept on file at the facility or in an accessible electronic file.
Facility Owner:	Emerald Park Landfill LLC (a subsidiary of GFL Environmental, Inc.) W124 S10629 South 124th Street Muskego, WI 53150 Contact: Daniel Otzelberger Phone: 414-788-1281
Engineer:	SCS Engineers 2830 Dairy Drive Madison, WI 53718 Contact: Jared Omernik, PE Phone: 608-216-7348

1.2 STORM WATER POLLUTION PREVENTION TEAM

SWPPP Team Position	Phone Numbers	Location	Responsibilities
Daniel Otzelberger Landfill General Manager	Mobile: 414-788-1281	W124 S10629 South 124th Street Muskego, WI 53150	• Coordinate the development, evaluation, maintenance, and amendment of the SWPPP • Monitor source area and storm water treatment best management practice maintenance activities • Train or coordinate training of employees • Complete inspections or appoint and train an inspector • Manage inspections and records • Complete annual storm water reports
Chad Siegle Operations Manager	Mobile: 262-758-3777	W124 S10629 South 124th Street Muskego, WI 53150	
Kari Rabideau Regional Environmental Compliance Manager	Mobile: 920-427-9363	W3105 Schneider Road, Hilbert, WI 54129	

2.0 IDENTIFICATION OF POTENTIAL SOURCES OF STORM WATER CONTAMINATION

Refer to Figures 2, 3, and 4 for the location of potential sources of storm water contamination. The table below summarizes the facility's activities, associated potential pollutant sources, and resulting potential pollutants.

A summary of the facility's SPCC-applicable oil sources is included in Table 1.

Facility Activity	Potential Pollutant Source	Potential Pollutant
Salt Storage Piles	Rainfall/runoff coming into contact with the salt storage pile or spillage resulting from salt loading/unloading activities	Chloride
Vehicle/Equipment Parking and Access Roads	Leaking vehicle/equipment fluids including hydraulic lines, radiators, tanks/containers. Gravel road/storage areas.	Oil, hydraulic fluids, heavy metals, organics (ethylene glycol-antifreeze), fuel, sediment
Vehicle/Equipment Washing	Debris/remnant fluids inside or outside of vehicles/equipment	Oil, heavy metals, solvents, phosphorus, salts, organics (ethylene glycol-antifreeze), sediment
Vehicle/Equipment Maintenance	Parts cleaning (spills during vendor servicing or employee tracking material to uncovered areas)	Solvents, oil, heavy metals, acid/alkaline wastes
	Waste disposal of greasy rags, oil filters, air filters, batteries, hydraulic fluids, transmission fluid, radiator fluid, degreasers	Oil, heavy metals, solvents, acid/alkaline wastes, ethylene glycol
	Spills of oil, degreasers, hydraulic fluids, transmission fluid, radiator fluids	Oil, arsenic, heavy metals, organics, solvents, ethylene glycol
	Fluids replacement, including oil, hydraulic fluids, transmission fluid, radiator fluids	Oil, arsenic, heavy metals, organics, solvents, ethylene glycol
Vehicle/Equipment Fueling	Spills and leaks during delivery	Fuel, oil, heavy metals
	Spills caused by "topping off" storage tanks	
	Rainfall falling on the fuel area, or storm water running onto the fuel area. Note that any leaks associated with fueling occurring via the portable tanks in the active landfill area are managed as leachate.	
	Hosing or washing down fuel area	
	Leaking truck tank	

Facility Activity	Potential Pollutant Source	Potential Pollutant
Outdoor Storage Areas	Spilled waste, containerized waste, empty waste containers & contaminated scrap metal exposed to precipitation	Highly variable - may include total suspended solids, nitrate, petroleum and grease, phosphorus, iron, BOD
Landfill Operations	Solid waste (as defined by 40 CFR 258.2) and nonhazardous special waste (typically consisting of industrial process waste and pollution control waste) brought in by truck and disposed in the active cell area of the landfill. Storm water that comes in contact with waste is treated as leachate and routed to the landfill's leachate management system.	Leachate/sediment - may include total suspended solids, nitrate, petroleum and grease, phosphorus, iron, biological oxygen demand (BOD)
Leachate Storage and Transfer Operations	Spills and leaks during leachate load out activities	Leachate – may include volatile organic compounds, ammonia, chloride, sulfate
Concrete Recycling Operations	Storm water runoff from concrete recycling pad	Variable – may include sediment/total suspended solids, petroleum and grease
Yard Waste Composting Operations	Storm water runoff from yard waste composting pad	Sediment/suspended solids
Construction Events	The landfill is developed and closed in phases, with construction events occurring at various times throughout the life of the landfill. On-site soil is also used as daily and intermediate cover. Areas of exposed soil and soil stockpiles resulting from these events are pollutant sources.	Sediment/suspended solids
Bare Soil Areas	Eroded areas not resulting from a recent construction event	Sediment/suspended solids

3.0 BEST MANAGEMENT PRACTICES

Storm water pollution prevention is achieved through implementing practices, called best management practices (BMPs) that reduce or eliminate potential storm water pollution sources (identified in Section 2.0).

Facility BMPs:	See **Table 3**. This includes BMPs to address pollutant(s) of concern associated with discharge to an impaired waterbody.
BMP Inspections:	Perform quarterly at a minimum with required quarterly visual inspection of outfalls - see **Section 4.0** and **Attachment A2**.
BMP Maintenance, Repair or Replacement:	Complete preventive maintenance as described in **Table 3**. Complete maintenance, repair or replacement of noted BMP deficiencies expeditiously.
Residual Pollutants Likely to Contaminate Discharges to Waters of State After Implementation of BMPs:	None expected. If BMPs in **Table 3** are not adequate, consider additional BMPs, which can include oil and grease removal devices, or BMPs designed, installed, and maintained in accordance with WDNR Technical Standards (http://dnr.wi.gov/topic/Stormwater/standards/index.html).

4.0 FACILITY INSPECTION AND MONITORING PLAN

Complete the required SWPPP inspections, evaluations, and reporting as outlined below. Maintain records as described in Section 6.0.

Quarterly Wet Weather Inspections:	• Perform quarterly inspections in accordance with Section 4.3.2 of the General Permit. • Perform 4 times annually by the anniversary date of the Start Date of permit coverage. • Perform within the first 30 minutes of discharge or as soon thereafter as practical, but not exceeding 60 minutes. • Document inspections on the form in **Attachment A1**.
Quarterly Site Inspections:	• Recommended to perform quarterly inspections of source areas and BMPs, either as part of the quarterly visual wet weather inspection or separately. • This is a recommended, but not required, inspection to help reduce the likelihood of contamination in site runoff, particularly for areas that sheet flow off of the site and therefore do not have an associated outfall. • Document on form included in **Attachment A2.**

Non-storm Water Discharge Evaluation:	• Perform inspections in accordance with Sections 4.2 and 5.2.2 of the General Permit. • Perform inspections twice per year during dry periods. • Document on the form in **Attachment B**. • Eliminate non-storm water discharges that are not authorized, or obtain coverage under another permit. • Refer to Section 2.4.3 of the General Permit for examples of non-storm water discharges that the General Permit does not apply to.
Annual Facility Site Compliance Inspection (AFSCI):	• Complete annually by October 11 (anniversary of the start date of general permit coverage). • Document on the form in **Attachment C**. • Refer to Sections 4.3.1 and 5.2.1 of the General Permit.
Annual Impaired Water Body Review:	• Perform annually by February 15th. • Document on the form in **Attachment D**. • Refer to Section 2.8 of the General Permit.
Modifying the SWPPP and Implementing Controls/BMPs for Sites that Discharge to Impaired Waters:	• If new pollutants of concern are added to the list of impairments: – Within 180 days of annual check described above, include a written section in the SWPPP that specifically identifies source area pollution prevention controls and BMPs to reduce, with the goal of eliminating, the storm water discharge of pollutants(s) of concern that contribute to the impairment. – Implement the identified controls and BMPs within the 180-day timeframe.

5.0 STORM WATER PERSONNEL TRAINING

Frequency and Documentation:	• Annually for personnel who: – Write, revise or implement the SWPPP; – Install, inspect, maintain and repair BMPs; – Work in areas of industrial activity subject to the permit; and, – Conduct storm water discharge monitoring. • As part of new employee training when new personnel enter position with SWPPP responsibilities outlined above. • Document on form in **Attachment E**.
Content of Training:	• Spill response procedures • Good housekeeping • Material management practices • Storm water discharge monitoring procedures • BMP operation and maintenance • See Section 2.11.7 and 3.3.2.6.2 of the General Permit.

6.0 RECORDKEEPING

Records to Maintain On-site:	• Permit applications • Inspection records • Maintenance records • Annual reports • Personnel training • Data and monitoring information
Duration:	Maintain for a minimum of 5 years (ref. NR 216.29(7)).

7.0 PLAN REVIEW

Frequency and Documentation:	• Revised and submit the SWPPP to the WDNR within 30 days of any of the following (see Section 3.4 of the General Permit): – When expansion, production increases, process modifications, changes in material handling or storage, or other activities will result in significant increases in exposure of pollutants to storm water. – The AFSCI, quarterly visual inspection or other information reveals that the provisions of the SWPPP are ineffective in controlling storm water pollutants discharged to waters of the state. – Upon written notice that WDNR finds the SWPPP to be ineffective in achieving the permit conditions. – If the facility receiving water is classified as impaired, or additional pollutants of concern have been added to a receiving water impairment (see Section 2.8.3 of the General Permit). • Revise the SWPPP as needed when the General Permit is reissued to incorporate new requirements, and submit to the WDNR as required by the reissued general permit requirements or WDNR related guidance. • Document SWPPP modifications on the form in **Attachment F**.

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Tables

Table 1. Aboveground Storage Tank Inventory
Emerald Park Landfill – Muskego, WI

Tank ID	Number of Tanks	Size	Type	Secondary Containment	Contents	Location
AST1	1	1,500-gallon	Steel	Landfill liner and leachate collection system	Diesel Fuel	Within landfill active area (outdoors), portable
AST2	1	2,000-gallon	Steel	Landfill liner and leachate collection system	Diesel Fuel	Within landfill active area (outdoors), portable
AST5	1	560-gallon	Steel	Double-walled tank	Used Oil	West of the Maintenance Shop (outdoors)
AST6	1	560-gallon	Steel	Double-walled tank	Unleaded Gasoline	North of the Pole Barn (outdoors)
AST7	1	560-gallon	Steel	Double-walled tank	Diesel Fuel	North of the Pole Barn (outdoors)
AST8	1	165,000-gallon	Steel	Concrete containment system around tank	Leachate	East of Phase 4 (outdoors)
CMP40	1	125-gallon	Steel	Condensate lift station/ leachate collection system	Compressor Oil	Gas Plant (indoors)
CMP42	1	125-gallon	Steel	Condensate lift station/ leachate collection system	Compressor Oil	Gas Plant (indoors)
CMP44	1	125-gallon	Steel	Condensate lift station/ leachate collection system	Compressor Oil	Gas Plant (indoors)
D1	3	55-gallon drums	Steel	Secondary containment pallets	Motor Oil, Gear Oil, Hydraulic Oil	Northwest corner of the Maintenance Shop (indoors)
D2	3	55-gallon drums	Steel	Secondary containment pallets	Motor Oil, Gear Oil, Hydraulic Oil	Maintenance Shop (indoors)
D3	3	55-gallon drums	Steel or Poly	Secondary containment pallets	Compressor Oil, Used Oil	Southeast corner of the Gas Plant (indoors)

Notes:
1. Includes SPCC-applicable storage tanks (aboveground oil storage containers that are 55 gallons or greater), and the leachate storage tank.
2. AST3 and AST4 have been decommissioned.

Table 2. Storm Water Outfalls
Emerald Park Landfill - Muskego, WI

Outfall	Contributing Source Areas	Outfall Description	Status
SW-1A	Storm water runoff from closed portions of EPL landfill	Discharge end of Sedimentation Basin No. 1 outlet structure (discharges to wetlands)	Existing outfall
SW-2	Storm water runoff from closed portions of EPL landfill	Discharge end of Sedimentation Basin No. 2 outlet structure (discharges to wetlands)	Existing outfall
SW-3	Storm water runoff from closed portions of EPL landfill	Discharge end of Sedimentation Basin No. 3 outlet structure (discharges to wetlands)	Existing outfall
SW-4	Storm water runoff from concrete recycling pad	Discharge end of Concrete Recycling Pad Sedimentation Basin outlet structure discharge pipe (discharges to wetlands)	Existing outfall
SW-5	Storm water runoff soil stockpile	Discharge end of Sedimentation Basin No. 5 outlet structure (discharges to wetlands)	Existing outfall
SW-6	Storm water runoff from soil stockpile	Discharge end of Sedimentation Basin No. 6 outlet structure (discharges to wetlands)	Existing outfall
SW-7	Storm water runoff from closed portions of EPL landfill	Discharge end of Sedimentation Basin No. 7 outlet structure (discharges to wetlands)	Existing outfall
SW-8	Storm water runoff from closed portions of EPL landfill	Discharge end of Sedimentation Basin No. 8 outlet structure (discharges to wetlands)	Future outfall
SW-9	Storm water runoff from closed portions of EPL landfill	Discharge end of Sedimentation Basin No. 9 outlet structure (discharges to wetlands)	Future outfall
SW-10	Storm water runoff from yard waste operations on the closed Future Parkland Landfill	Discharge end of Future Parkland Landfill Sedimentation Basin outlet riprap (discharges to wetlands)	Existing outfall

Notes:
1. Outfalls SW-1A, SW-2, SW-3, SW-5, and SW-6 are associated with sedimentation basins that include a biofilter. For convenience of monitoring, these outfall monitoring locations are listed at the discharge point of the sedimentation basin. However, the biofilters provide additional treatment prior to discharging to surrounding wetlands. For these outfalls, monitoring may also/alternatively be performed at the discharge end of the biofilter.
2. Outfall SW-1B was damaged and is no longer operational.

Table 3. Best Management Practices
Emerald Park Landfill – Muskego, WI

Source	BMP
Petroleum Storage Areas and Chemical Storage Areas	• In the event of a spill incident of any quantity, call: **EMERGENCY COORDINATOR: Daniel Otzelberger, Phone (cell) 414-788-1281** **BACKUP EMERGENCY COORDINATOR: Chad Siegle: Phone (cell) 262-758-3777** • Be familiar with and exercise the provisions of the SPCC Plan developed for the facility. • **Good Housekeeping** – Keep material storage/usage areas clean and clear of debris. Slipping or tripping while handling materials may cause spills. • **Maintaining Containers** – Maintain containers that store significant materials in good condition. Dents and/or rust are weak points on containers that could rupture and release materials. Containers in poor condition should be replaced. • **Handling Containers** – Take proper care during container handling. Containers that are moved too fast could spill material by hitting objects that could puncture the container and/or tip over. • **Storing Containers** – Store containers upright with the lids securely attached. • **Dispensing Materials** – Take proper care while dispensing liquids. Use funnels when transferring liquids. Dispense liquids slowly to prevent overfilling and spillage. If available, use auto-shutoff nozzles while fueling equipment. • **Maintaining Equipment** – Maintain equipment and inspect frequently to identify potential leakage points. • **Spill Response** – Clean up incidental spills immediately with absorbent materials.
General/Facility-wide	<u>Pollution Prevention Training</u> • Storm Water Pollution Prevention Plan training for Pollution Prevention Team
General/Facility-wide	<u>Minimize Exposure</u> • Store materials indoors/under cover when practicable • Perform maintenance operations indoors/under cover whenever practicable
General/Facility-wide	<u>Good Housekeeping</u> • Pick up litter. • Control dust in accordance with • Properly store chemicals/products. • Perform routine maintenance and repair of equipment (e.g., make sure pipe are not corroded or leaking, valves are operating properly, pumps and hoses are not leaking). • Remove unneeded products and materials from the site. • Train employees in site inspection and basic cleanup procedures. • Clearly indicate proper disposal locations for various waste types at the facility. • Label all containers to show name and type of substance. • Store containers to avoid collapsing or damaging the containers. • Minimize waste generated at the facility. • Direct floor drains to sanitary sewer or on-site tank for proper disposal. • Maintain containers used for outdoor chemical/waste storage in good condition to prevent leaking. • Covering or enclosing slat storage piles so that neither precipitation nor storm water runoff can come into contact with the stored salt.

Table 3. Best Management Practices
Emerald Park Landfill – Muskego, WI

Source	BMP
General/Facility-wide	<u>Maintenance Activities</u> • Inspect all incoming vehicles, parts, and equipment temporarily stored outside for leaks. • Use drip pans or containers under parts or vehicles that drip or that are likely to drip liquids, such as during dismantling of liquid containing parts or removal or transfer of liquids. • Perform maintenance activities indoors whenever practicable. • Properly dispose of greasy rags, oil filters, air filters, batteries, spent coolant and degreasers. • Utilize drip pans or other types of controls for known leaking vehicles and equipment. • Promptly transfer used fluids to the proper container; do not leave full drip pans or other open containers around the shop or outdoors. • Routinely sweep up dust and debris from maintenance activities and dispose of properly. • Label and track the recycling of waste material (e.g., used oil, spent solvents, antifreeze, batteries). • Drain filters (oil, diesel, gasoline) and other parts before disposing or recycling. • Do not pour/convey washwater, liquid waste, or other pollutants into storm drains or to surface water. • Do not connect maintenance and repair shop floor drains to storm drains or surface water.
Outdoor Storage Areas	• Keep the storage areas clean of debris. • Repair or replace damaged (e.g., holes, nonfunctioning seals, etc.) containers and equipment. • Cover and/or enclose materials, and store materials indoors whenever possible. • Transport containers (drums, roll-off boxes, compactors, etc.) for disposal when they become full.
On-site Fueling	• Fuel operator must be present at all times during unloading/fueling. • Place drip collection containers under unloading equipment and promptly place recovered liquids in a covered container. • If drip pans are not available to collect drips, use dry cleanup methods (i.e., absorbent wipes, granular floor dry) for fueling area spills. • Dispose of any fuel spills or leaks properly. • Replace or repair damaged/defective tank or dispensing equipment. • Sweep/clean the secondary containment area. • Manage storm water collected within the secondary containment structures as follows: – Maintain the discharge pipe valve in the closed position. – If water has accumulated, visually inspect water. – If there is no oil sheen present, open the valve to discharge the collected storm water. Once drained, close the valve. – If an oil sheen is present, follow the water management procedures outlined in the SPCC Plan.
Vehicular Traffic and Parking	• Enforce speed limits on premises. • Keep the surface clear of debris. • Repair any damage to paving. • Maintain gravel parking areas. • Sweep parking lots as needed to remove dirt, waste, and debris. Do not hose down.
Bare Soil Areas	• Vegetate bare soil areas. • Maintain vegetated areas. Repair signs of erosion.
Fertilizer Use	• If fertilizer is used on site, use a phosphorus-free fertilizer unless soil testing indicates the need for phosphorus.

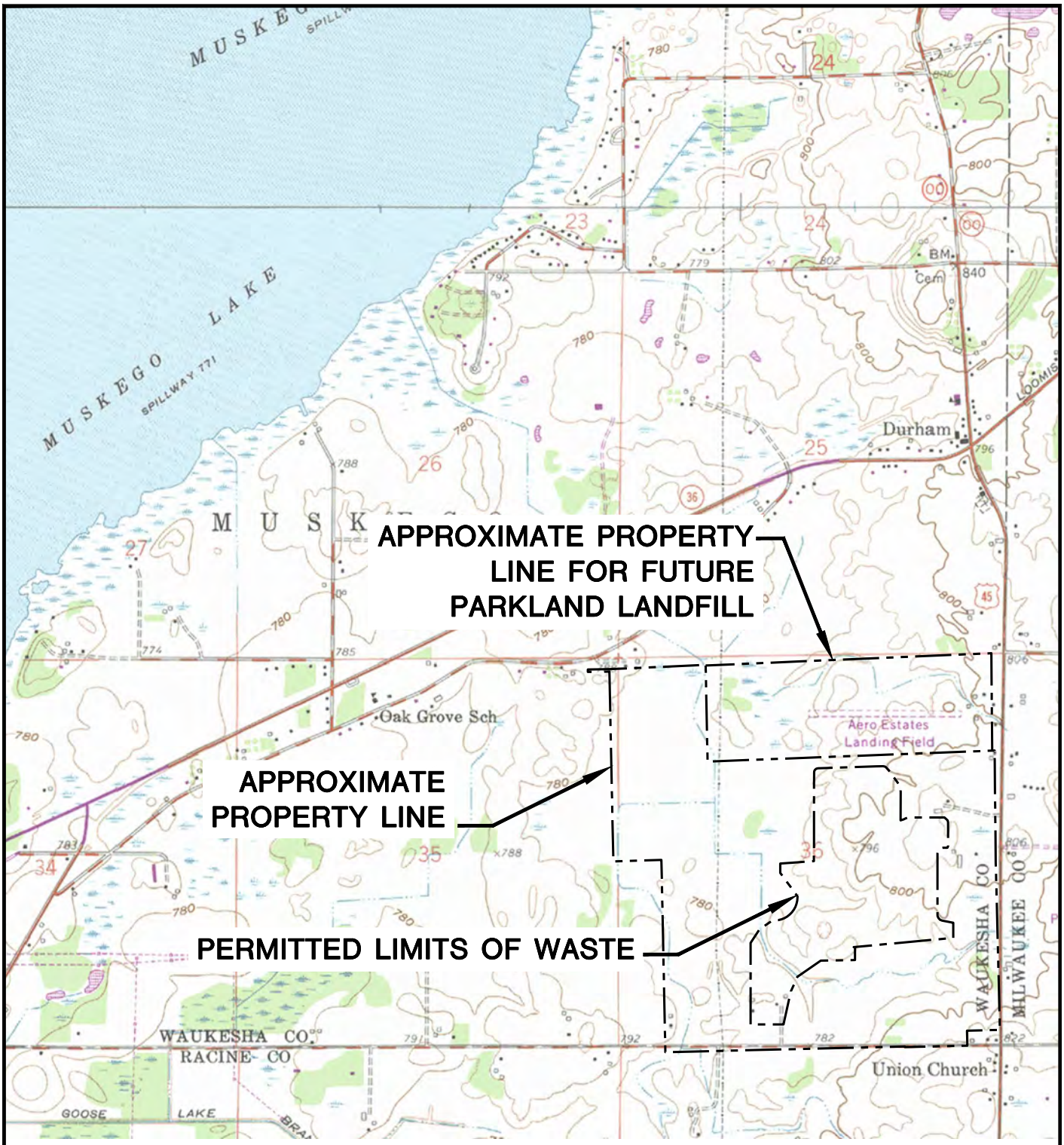
Table 3. Best Management Practices
Emerald Park Landfill – Muskego, WI

Source	BMP
Site Construction/Soil Disturbance Events (e.g., liner or final cover construction events)	• Implement BMPs to limit sediment discharge to no more than 5 tons/acre/year, to the maximum extent practicable, from initial grading to final stabilization. Refer to WDNR guidance document EGAD No. 3800-2017-03 (Construction Site Soil Loss and Sediment Discharge Calculation Guidance), including prescriptive compliance areas, when evaluate soil loss. • Develop a construction site erosion control plan as part of the detailed site construction plans. • Install, inspect and maintain BMPs in accordance with WDNR Conservation Practice standards (http://dnr.wi.gov/topic/Stormwater/standards/const_standards.html). • Minimize the amount of disturbance to the extent practicable. • Divert runoff around disturbed areas. • Maintain gravel access road to reduce material tracking to public streets. Clean up sediment tracked onto public streets by the end of each working day. • Keep the construction area clear of debris. • Place silt fence or silt sock downslope of disturbed areas and prior to wetlands/waterways prior to the start of disturbance. • Locate stockpiles outside of drainage ways and divert run-on around stockpile areas using diversion swales as needed. • Commence temporary stabilization activities when land disturbing construction activities have temporarily ceased and will not resume for a period exceeding 14 calendar days. [ref. NR 151.105(6)(d)] • Vegetate stockpiles when not in use for 6 months or more. [ref NR 506.07(1)(r)] • Install BMPs (e.g., silt fence/silt sock) around stockpiles that will be in existence for more than 7 days. [ref NR 151.11(6m)6.] • Protect runoff channels as necessary to prevent scour and erosion that generates sediment. • Stabilize (seed, gravel, pave) areas as soon as practical upon completion of construction. – For areas of the landfill which will not contain solid waste and are to be vegetated, seed and mulch/erosion mat no later than 90 days after completion of construction or by October 15, whichever is earlier, and if construction is completed after September 15, no later than June 15 of the following year. [ref. NR 506.07(2)(c)] – For landfill closure areas, seed, fertilize, and mulch/erosion mat within 180 days after ceasing to accept solid waste, or if solid waste termination is after September 15, by June 15 of the following year. [ref. NR 506.08(4)] • Refer to WDNR Guidance Document #3800-2016-01 (Storm Water Discharge Permit Coverage at Solid Waste Landfills) for additional background/guidance.
Landfill Operations	• Operate the facility in accordance with the requirements of the landfill's license. • Minimize the amount of open cell area. • Identify and repair leachate seeps. • Route storm water that has come into contact with waste to the leachate collection system. Storm water that enters the active cell must be treated. • Place portable fencing around the active face of the landfill to collect loose waste that may blow away from the active face. Move fencing as the active face moves. • Place alternative daily cover or daily cover at the end of each working day to prevent windblown litter. • Cover inactive areas with 6 inches to 1 foot of soil cover. • Divert clean storm water away from active areas with diversion berms, positive drainage and/or other diversion methods to sedimentation basins. • Construct diversion berms and downslope flumes along intermediate and final cover slopes as needed to minimize erosion of the cover.
Concrete Recycling Operations	• Employ temporary erosion control measures: stone ditch checks, silt fence, or diversion structures if runoff from stockpiles begins to erode soils. • Wet materials as needed to control dust. • Utilize measures such as berms or ditches to prevent storm water run-on. • Accept only materials approved by the concrete recycling plan.

Table 3. Best Management Practices
Emerald Park Landfill – Muskego, WI

Source	BMP
Yard Waste Composting Operations	• Employ temporary erosion control measures: stone ditch checks, silt fence, or diversion structures if runoff from yard waste compost piles begins to erode soils. • Wet materials as needed to control dust. • Maintain yard waste gravel pad grading to promote runoff to the sedimentation basin. • Utilize measures such as berms or ditches to prevent storm water run-on. • Accept only approved materials.
Leachate Collection, Storage and Transfer	• Keep secondary containment area clear of litter. • Repair damage to containment structure. • Inspect and integrity test tank per factory/industrial standards. • Leachate tanker truck operator must be present at all times during leachate transfer. • Replace or repair damaged/defective tank or dispensing equipment.
Landfill, Soil Stockpile, Concrete Recycling and Yard Waste Composting Operations	Structural BMPs • Sedimentation Basins: – Remove sediment as necessary to maintain active storage volume and proper function. Manage sediment in accordance with Chapter NR 528, Wisconsin Administrative Code. – Repair signs of erosion.
Salt Storage Piles	• Keep salt storage piles on an impervious, curbed surface, and enclosed in a building/structure or covered so that neither precipitation nor storm water runoff can come into contact with the stored salt. • Immediately clean up any salt spillage resulting from loading/unloading activities

Figures



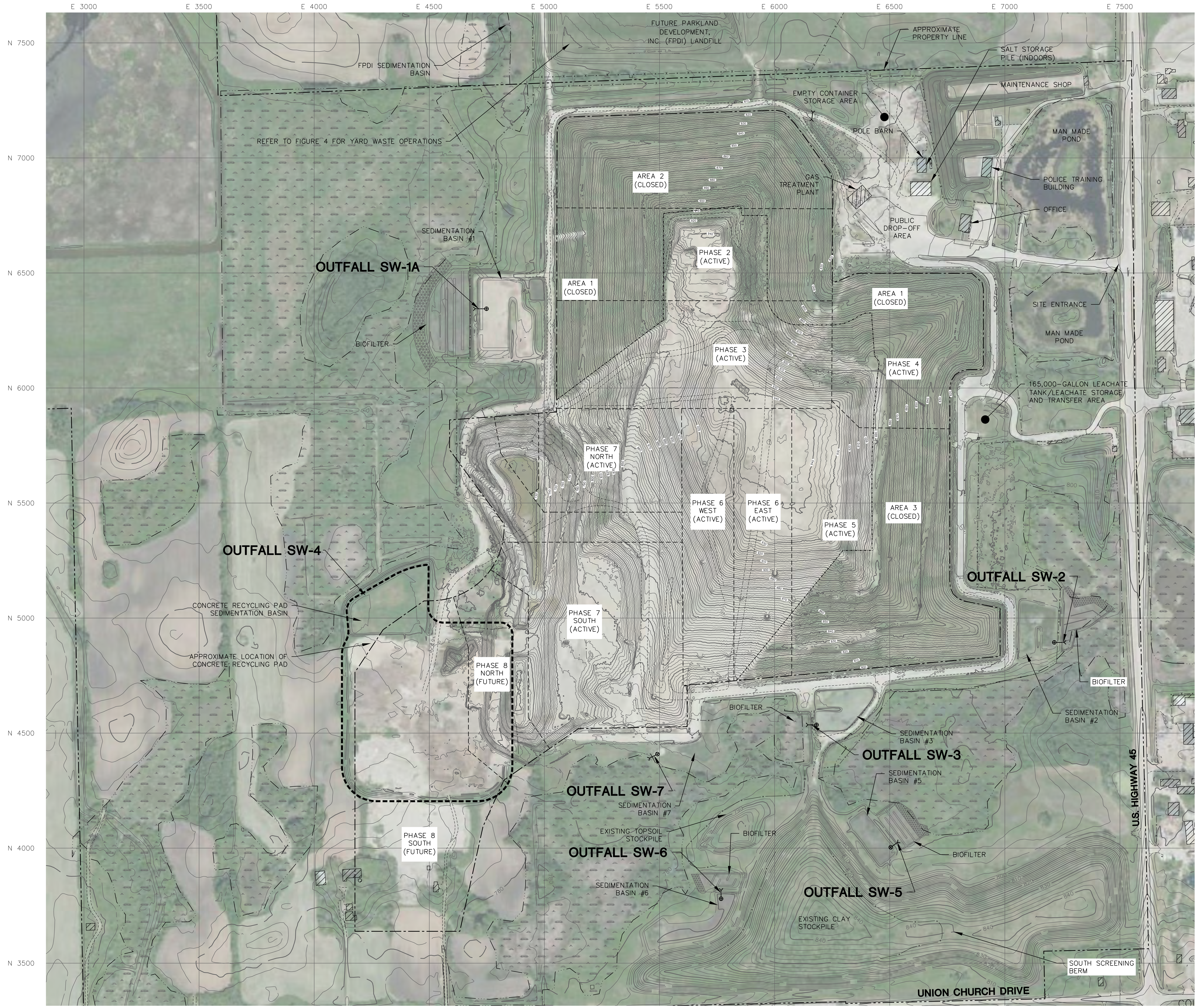
N

NORTH CAPE QUADRANGLE
WISCONSIN
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 HALES CORNERS 15' QUADRANGLE
1976
SCALE: 1" = 2,000'

CLIENT: GFL ENVIRONMENTAL EMERALD PARK LANDFILL, LLC	SITE: EMERALD PARK LANDFILL W124 S10629 124TH STREET MUSKEGO, WI 53150	SITE LOCATION MAP	

PROJECT NO.	25221179.04	DRAWN BY:	MBH	ENGINEER: SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	FIGURE 1
DRAWN:	12/23/2013	CHECKED BY:	JMO 10/14/2022		
REVISED:	10/10/2022	APPROVED BY:	JMO 10/14/2022		

\\Mad-fs01\data\Projects\25221179.04\Drawings\1_SITE LOCATION MAP.dwg, 10/10/2022 9:40:53 AM



LEGEND

- PROPERTY LINE
- BUILDING
- WETLAND
- 800 EXISTING GROUND SURFACE (10' CONTOUR)
- EXISTING PAVED ROAD
- EXISTING UNPAVED ROAD
- EXISTING FENCE
- APPROVED LIMITS OF WASTE
- FINAL COVER CLOSURE AREA LIMTS
- SEDIMENTATION BASIN OUTLET STRUCTURE
- APPROXIMATE DRAINAGE DIVIDE (SEE NOTE 4)

NOTES:

1. THE TOPOGRAPHIC BASE MAP WAS PREPARED BY KBM, INC., GRAND FORKS, NORTH DAKOTA, APRIL, 2015. TOPOGRAPHIC CONTOURS WITHIN THE LANDFILL AREA UPDATED WITH JUNE 22, 2022 GRADES PROVIDED BY TETRA TECH. TOPOGRAPHIC CONTOURS WITHIN LIMITS OF YARD WASTE OPERATIONS UPDATED WITH SEPTEMBER 15, 2021 GRADES PROVIDED BY TETRA TECH.
2. AERIAL BACKGROUND FROM BING MAPS.
3. APPROXIMATE PROPERTY LINE IS BASED ON SURVEY DATA PROVIDED BY NORTH SHORE ENGINEERING, INC., MEQUON, WISCONSIN.
4. WETLAND LIMITS BASED ON FINAL GRADES PLAN SHEET (PLAN SHEET 8) OF THE SOUTHWESTERN EXPANSION PLAN OF OPERATION BY RMT, INC., DATED JANUARY 2011.
5. REFER TO PLAN SHEET 8 AND FIGURES AND CALCULATIONS IN APPENDIX H OF THE SOUTHWESTERN EXPANSION PLAN OF OPERATION AND PLAN SET FOR DRAINAGE AREAS AND PERVIOUS/IMPERVIOUS AREAS TO EACH OUTFALL. OUTFALL SW-4 DRAINAGE AREA=14.4 ACRES WITH 87% IMPERVIOUS AND 13% PERVIOUS.

N

200 0 200

SCALE: 1" = 200'

PROJECT NO.	25221179.04
DRAWN:	12/26/2013
REVISED:	10/11/2022
DRAWN BY:	AHB/MBH
CHECKED BY:	JMO 10/14/2022
APPROVED BY:	JMO 10/14/2022

ENGINEER

SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT

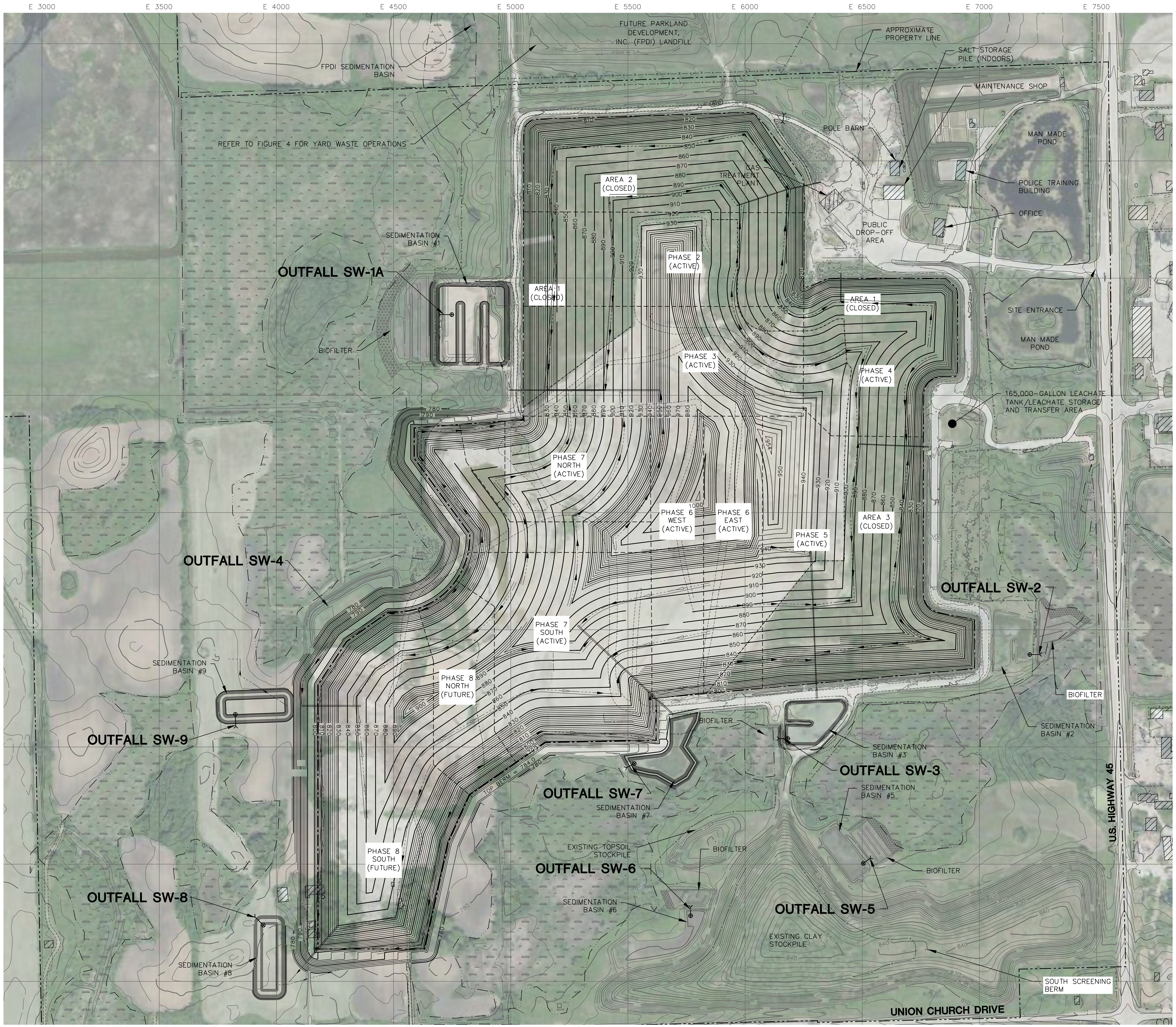
GFL ENVIRONMENTAL
EMERALD PARK LANDFILL, LLC

SITE

EMERALD PARK LANDFILL
W124 S10629 124TH STREET
MUSKEGO, WI 53150

EXISTING SITE LAYOUT AND OUTFALL LOCATIONS MAP

FIGURE 2


E 3000
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N 5500
N 5000
N 4500
N 4000
N 3500
FUTURE PARKLAND DEVELOPMENT, INC. (FPDI) LANDFILL
APPROXIMATE PROPERTY LINE
SALT STORAGE PILE (INDOORS)
MAINTENANCE SHOP
FPDI SEDIMENTATION BASIN
REFER TO FIGURE 4 FOR YARD WASTE OPERATIONS
POLE BARN
MAN MADE POND
POLICE TRAINING BUILDING
OFFICE
GAS TREATMENT PLANT
AREA 2 (CLOSED)
PUBLIC DROP-OFF AREA
SEDIMENTATION BASIN #1
OUTFALL SW-1A
PHASE 2 (ACTIVE)
AREA 1 (CLOSED)
AREA 1 (CLOSED)
SITE ENTRANCE
MAN MADE POND
BIOFILTER
PHASE 3 (ACTIVE)
PHASE 4 (ACTIVE)
165,000-GALLON LEACHATE TANK/LEACHATE STORAGE AND TRANSFER AREA
PHASE 7 NORTH (ACTIVE)
PHASE 6 WEST (ACTIVE)
PHASE 6 EAST (ACTIVE)
AREA 3 (CLOSED)
PHASE 5 (ACTIVE)
OUTFALL SW-4
OUTFALL SW-2
PHASE 7 SOUTH (ACTIVE)
SEDIMENTATION BASIN #9
PHASE 8 NORTH (FUTURE)
BIOFILTER
BIOFILTER
SEDIMENTATION BASIN #2
OUTFALL SW-9
SEDIMENTATION BASIN #3
OUTFALL SW-3
TOP BERM = 784.0
OUTFALL SW-7
SEDIMENTATION BASIN #7
SEDIMENTATION BASIN #5
EXISTING TOPSOIL STOCKPILE
BIOFILTER
US. HIGHWAY 45
PHASE 8 SOUTH (FUTURE)
OUTFALL SW-6
BIOFILTER
OUTFALL SW-8
SEDIMENTATION BASIN #6
OUTFALL SW-5
EXISTING CLAY STOCKPILE
SEDIMENTATION BASIN #8
SOUTH SCREENING BERM
UNION CHURCH DRIVE

LEGEND

- PROPERTY LINE
- BUILDING
- WETLAND
- EXISTING GROUND SURFACE (10' CONTOUR)
- EXISTING GROUND SURFACE (10' CONTOUR)
- FUTURE GRADE (10' CONTOUR)
- FUTURE GRADE (2' CONTOUR)
- EXISTING PAVED ROAD
- EXISTING UNPAVED ROAD
- EXISTING FENCE
- APPROVED LIMITS OF WASTE
- FINAL COVER CLOSURE AREA LIMITS
- FINAL COVER DOWNSLOPE FLUME
- FINAL COVER DIVERSION BERM
- SEDIMENTATION BASIN OUTLET STRUCTURE

NOTES:

1. REFER TO PLAN SHEET 2 FOR BASE MAP NOTES.
2. WETLAND LIMITS, LANDFILL FINAL GRADES AND STORM WATER MANAGEMENT SYSTEM LAYOUT BASED ON FINAL GRADES PLAN SHEET (PLAN SHEET 8) OF SOUTHWESTERN EXPANSION PLAN OF OPERATION BY RMT, INC., DATED JANUARY 2011.

OUTFALL NOTES:

1. THE CONCRETE RECYCLING PAD SEDIMENTATION BASIN WILL BE ABANDONED DURING CONSTRUCTION OF PHASE 8. OUTFALL SW-4 WILL NO LONGER BE APPLICABLE TO THE STORM WATER POLLUTION PREVENTION PLAN MONITORING/INSPECTION PROGRAM AT THAT TIME.

N

200 0 200

SCALE: 1" = 200'

FIGURE 3

FUTURE SITE LAYOUT AND OUTFALL LOCATIONS MAP

SITE

EMERALD PARK LANDFILL
W124 S10629 124TH STREET
MUSKEGO, WI 53150

CLIENT

GFL ENVIRONMENTAL
EMERALD PARK LANDFILL, LLC

ENGINEER

SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

PROJECT NO.	25221179.04	DRAWN BY:	AHB/MBH
DRAWN:	12/26/2013	CHECKED BY:	
REVISED:	10/11/2022	APPROVED BY:	

OUTFALL SW-10

RIP RAP WITH GEOTEXTILE UNDERLAYMENT (TYP.)

LIMITS OF YARD WASTE PAD

SEDIMENTATION BASIN #10

FUTURE PARKLAND LANDFILL

ROCK CHUTE (TYP.)

ALL WEATHER ACCESS ROAD (TYP.)

LEGEND

- PROPERTY LINE
- ABOVEGROUND STORAGE TANK (AST)
- WETLAND
- EXISTING GROUND SURFACE (10' CONTOUR)
- EXISTING PAVED ROAD
- EXISTING UNPAVED ROAD
- EXISTING FENCE
- EXISTING CULVERT
- DRAINAGE BOUNDARY

NOTES:

1. REFER TO PLAN SHEET 2 FOR BASE MAP NOTES.
2. OUTFALL SW-10 DRAINAGE AREA APPROXIMATELY 12.3 ACRES WITH 68% IMPERVIOUS AND 32% PERVIOUS.

N

100 0 100

SCALE: 1" = 100'

PROJECT NO.	25221179.04	DRAWN BY:	MBH
DRAWN:	10/06/2022	CHECKED BY:	JMO
REVISED:	10/10/2022	APPROVED BY:	JMO 10/14/2022

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT: GFL ENVIRONMENTAL
EMERALD PARK LANDFILL, LLC

SITE: EMERALD PARK LANDFILL
W124 S10629 124TH STREET
MUSKEGO, WI 53150

YARD WASTE COMPOSTING FACILITY
SITE LAYOUT AND OUTFALL LOCATION

FIGURE 4

I:\25221179.04\Drawings\4_SWPPP COMPOST LAYOUT.dwg, 10/11/2022 10:41:58 AM

Attachment A1

Quarterly Wet Weather Inspection Form

ATTACHMENT A1
Quarterly Wet Weather Outfall Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Applicable Section of General Permit:	• Section 4.3.2 of the General Permit.
Evaluation Criteria:	• Perform visual screening at each outfall (see **Figure 2** through **Figure 4** and **Table 2**). • Perform the inspection within the first 30 minutes of discharge or as soon thereafter as practical, but no exceeding 60 minutes. • Document on the form below. • If you note visible pollution, note the probable source and implement BMPs that will reduce or eliminate the problem. • Complete one page for each outfall. • Maintain records on site.

ATTACHMENT A1 (Continued)
Quarterly Wet Weather Outfall Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Inspection: __ / __ / 20__ __
Quarter (circle): 1 (Jan-Mar) 2 (Apr-Jun) 3 (Jul-Sep) 4 (Oct-Dec)	
Time Rainfall Runoff Began: _____ am pm	
Name of Inspector (print):	
Signature:	
Outfall SW-1A: Discharge end of Sedimentation Basin No. 1 outlet structure	Time of Observation: __ : __ am pm ***(Must be within 60 minutes of time rainfall began).***
Color: ☐Clear ☐Red ☐Yellow ☐Brown ☐Other:	
Odor: ☐None ☐Musty ☐Sewage ☐Rotten Egg ☐Other:	
Clarity: ☐Clear ☐Cloudy ☐Opaque ☐Suspended Solids ☐Other:	
Floatables: ☐None ☐Foam ☐Garbage ☐Oily Sheen ☐Other:	
Deposits/Stains: ☐None ☐Oily ☐Sludge ☐Sediments ☐Other:	
Comments (include possible causes of any contamination noted and possible BMPs to control):	
This outfall could not be evaluated during this quarter due to the following reason(s):	
☐ Extended Drought	☐ Dangerous Weather
☐ Extended Freeze	☐ Storms did not occur during normal business hours
☐ Other (describe):	

ATTACHMENT A1 (Continued)
Quarterly Wet Weather Outfall Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Inspection: __ / __ / 20__ __
Quarter (circle): 1 (Jan-Mar) 2 (Apr-Jun) 3 (Jul-Sep) 4 (Oct-Dec)	
Time Rainfall Runoff Began: _____ am pm	
Name of Inspector (print):	
Signature:	
Outfall SW-2: Discharge end of Sedimentation Basin No. 2 outlet structure	Time of Observation: __ : __ am pm ***(Must be within 60 minutes of time rainfall began).***
Color: ☐Clear ☐Red ☐Yellow ☐Brown ☐Other:	
Odor: ☐None ☐Musty ☐Sewage ☐Rotten Egg ☐Other:	
Clarity: ☐Clear ☐Cloudy ☐Opaque ☐Suspended Solids ☐Other:	
Floatables: ☐None ☐Foam ☐Garbage ☐Oily Sheen ☐Other:	
Deposits/Stains: ☐None ☐Oily ☐Sludge ☐Sediments ☐Other:	
Comments (include possible causes of any contamination noted and possible BMPs to control):	
This outfall could not be evaluated during this quarter due to the following reason(s):	
☐ Extended Drought	☐ Dangerous Weather
☐ Extended Freeze	☐ Storms did not occur during normal business hours
☐ Other (describe):	

ATTACHMENT A1 (Continued)
Quarterly Wet Weather Outfall Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Inspection: __ / __ / 20__ __
Quarter (circle): 1 (Jan-Mar) 2 (Apr-Jun) 3 (Jul-Sep) 4 (Oct-Dec)	
Time Rainfall Runoff Began: _____ am pm	
Name of Inspector (print):	
Signature:	
Outfall SW-3: Discharge end of Sedimentation Basin No. 3 outlet structure	Time of Observation: __ : __ am pm ***(Must be within 60 minutes of time rainfall began).***
Color: ☐Clear ☐Red ☐Yellow ☐Brown ☐Other:	
Odor: ☐None ☐Musty ☐Sewage ☐Rotten Egg ☐Other:	
Clarity: ☐Clear ☐Cloudy ☐Opaque ☐Suspended Solids ☐Other:	
Floatables: ☐None ☐Foam ☐Garbage ☐Oily Sheen ☐Other:	
Deposits/Stains: ☐None ☐Oily ☐Sludge ☐Sediments ☐Other:	
Comments (include possible causes of any contamination noted and possible BMPs to control):	
This outfall could not be evaluated during this quarter due to the following reason(s):	
☐ Extended Drought	☐ Dangerous Weather
☐ Extended Freeze	☐ Storms did not occur during normal business hours
☐ Other (describe):	

ATTACHMENT A1 (Continued)
Quarterly Wet Weather Outfall Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Inspection: __ / __ / 20__ __
Quarter (circle): 1 (Jan-Mar) 2 (Apr-Jun) 3 (Jul-Sep) 4 (Oct-Dec)	
Time Rainfall Runoff Began: _____ am pm	
Name of Inspector (print):	
Signature:	
Outfall SW-4: Discharge end of Concrete Recycling Pad Sedimentation Basin outlet structure	Time of Observation: __ : __ am pm ***(Must be within 60 minutes of time rainfall began).***
Color: ☐Clear ☐Red ☐Yellow ☐Brown ☐Other:	
Odor: ☐None ☐Musty ☐Sewage ☐Rotten Egg ☐Other:	
Clarity: ☐Clear ☐Cloudy ☐Opaque ☐Suspended Solids ☐Other:	
Floatables: ☐None ☐Foam ☐Garbage ☐Oily Sheen ☐Other:	
Deposits/Stains: ☐None ☐Oily ☐Sludge ☐Sediments ☐Other:	
Comments (include possible causes of any contamination noted and possible BMPs to control):	
This outfall could not be evaluated during this quarter due to the following reason(s):	
☐ Extended Drought	☐ Dangerous Weather
☐ Extended Freeze	☐ Storms did not occur during normal business hours
☐ Other (describe):	

ATTACHMENT A1 (Continued)
Quarterly Wet Weather Outfall Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Inspection: __ / __ / 20__ __
Quarter (circle): 1 (Jan-Mar) 2 (Apr-Jun) 3 (Jul-Sep) 4 (Oct-Dec)	
Time Rainfall Runoff Began: _____ am pm	
Name of Inspector (print):	
Signature:	
Outfall SW-5: Discharge end of Sedimentation Basin No. 5 outlet structure	Time of Observation: __ : __ am pm ***(Must be within 60 minutes of time rainfall began).***
Color: ☐Clear ☐Red ☐Yellow ☐Brown ☐Other:	
Odor: ☐None ☐Musty ☐Sewage ☐Rotten Egg ☐Other:	
Clarity: ☐Clear ☐Cloudy ☐Opaque ☐Suspended Solids ☐Other:	
Floatables: ☐None ☐Foam ☐Garbage ☐Oily Sheen ☐Other:	
Deposits/Stains: ☐None ☐Oily ☐Sludge ☐Sediments ☐Other:	
Comments (include possible causes of any contamination noted and possible BMPs to control):	
This outfall could not be evaluated during this quarter due to the following reason(s):	
☐ Extended Drought	☐ Dangerous Weather
☐ Extended Freeze	☐ Storms did not occur during normal business hours
☐ Other (describe):	

ATTACHMENT A1 (Continued)
Quarterly Wet Weather Outfall Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Inspection: __ / __ / 20__ __
Quarter (circle): 1 (Jan-Mar) 2 (Apr-Jun) 3 (Jul-Sep) 4 (Oct-Dec)	
Time Rainfall Runoff Began: _____ am pm	
Name of Inspector (print):	
Signature:	
Outfall SW-6: Discharge end of Sedimentation Basin No. 6 outlet structure	Time of Observation: __ : __ am pm ***(Must be within 60 minutes of time rainfall began).***
Color: ☐Clear ☐Red ☐Yellow ☐Brown ☐Other:	
Odor: ☐None ☐Musty ☐Sewage ☐Rotten Egg ☐Other:	
Clarity: ☐Clear ☐Cloudy ☐Opaque ☐Suspended Solids ☐Other:	
Floatables: ☐None ☐Foam ☐Garbage ☐Oily Sheen ☐Other:	
Deposits/Stains: ☐None ☐Oily ☐Sludge ☐Sediments ☐Other:	
Comments (include possible causes of any contamination noted and possible BMPs to control):	
This outfall could not be evaluated during this quarter due to the following reason(s):	
☐ Extended Drought	☐ Dangerous Weather
☐ Extended Freeze	☐ Storms did not occur during normal business hours
☐ Other (describe):	

ATTACHMENT A1 (Continued)
Quarterly Wet Weather Outfall Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Inspection: __ / __ / 20__ __
Quarter (circle): 1 (Jan-Mar) 2 (Apr-Jun) 3 (Jul-Sep) 4 (Oct-Dec)	
Time Rainfall Runoff Began: _____ am pm	
Name of Inspector (print):	
Signature:	
Outfall SW-7: Discharge end of Sedimentation Basin No. 7 outlet structure	Time of Observation: __ : __ am pm ***(Must be within 60 minutes of time rainfall began).***
Color: ☐Clear ☐Red ☐Yellow ☐Brown ☐Other:	
Odor: ☐None ☐Musty ☐Sewage ☐Rotten Egg ☐Other:	
Clarity: ☐Clear ☐Cloudy ☐Opaque ☐Suspended Solids ☐Other:	
Floatables: ☐None ☐Foam ☐Garbage ☐Oily Sheen ☐Other:	
Deposits/Stains: ☐None ☐Oily ☐Sludge ☐Sediments ☐Other:	
Comments (include possible causes of any contamination noted and possible BMPs to control):	
This outfall could not be evaluated during this quarter due to the following reason(s):	
☐ Extended Drought	☐ Dangerous Weather
☐ Extended Freeze	☐ Storms did not occur during normal business hours
☐ Other (describe):	

ATTACHMENT A1 (Continued)
Quarterly Wet Weather Outfall Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Inspection: __ / __ / 20__ __
Quarter (circle): 1 (Jan-Mar) 2 (Apr-Jun) 3 (Jul-Sep) 4 (Oct-Dec)	
Time Rainfall Runoff Began: _____ am pm	
Name of Inspector (print):	
Signature:	
Outfall SW-8: Discharge end of Sedimentation Basin No. 8 outlet structure	Time of Observation: __ : __ am pm ***(Must be within 60 minutes of time rainfall began).***
Color: ☐Clear ☐Red ☐Yellow ☐Brown ☐Other:	
Odor: ☐None ☐Musty ☐Sewage ☐Rotten Egg ☐Other:	
Clarity: ☐Clear ☐Cloudy ☐Opaque ☐Suspended Solids ☐Other:	
Floatables: ☐None ☐Foam ☐Garbage ☐Oily Sheen ☐Other:	
Deposits/Stains: ☐None ☐Oily ☐Sludge ☐Sediments ☐Other:	
Comments (include possible causes of any contamination noted and possible BMPs to control):	
This outfall could not be evaluated during this quarter due to the following reason(s):	
☐ Extended Drought	☐ Dangerous Weather
☐ Extended Freeze	☐ Storms did not occur during normal business hours
☐ Other (describe):	

ATTACHMENT A1 (Continued)
Quarterly Wet Weather Outfall Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Inspection: __ / __ / 20__ __
Quarter (circle): 1 (Jan-Mar) 2 (Apr-Jun) 3 (Jul-Sep) 4 (Oct-Dec)	
Time Rainfall Runoff Began: _____ am pm	
Name of Inspector (print):	
Signature:	
Outfall SW-9: Discharge end of Sedimentation Basin No. 9 outlet structure	Time of Observation: __ : __ am pm ***(Must be within 60 minutes of time rainfall began).***
Color: ☐Clear ☐Red ☐Yellow ☐Brown ☐Other:	
Odor: ☐None ☐Musty ☐Sewage ☐Rotten Egg ☐Other:	
Clarity: ☐Clear ☐Cloudy ☐Opaque ☐Suspended Solids ☐Other:	
Floatables: ☐None ☐Foam ☐Garbage ☐Oily Sheen ☐Other:	
Deposits/Stains: ☐None ☐Oily ☐Sludge ☐Sediments ☐Other:	
Comments (include possible causes of any contamination noted and possible BMPs to control):	
This outfall could not be evaluated during this quarter due to the following reason(s):	
☐ Extended Drought	☐ Dangerous Weather
☐ Extended Freeze	☐ Storms did not occur during normal business hours
☐ Other (describe):	

ATTACHMENT A1 (Continued)
Quarterly Wet Weather Outfall Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Inspection: __ / __ / 20__ __
Quarter (circle): 1 (Jan-Mar) 2 (Apr-Jun) 3 (Jul-Sep) 4 (Oct-Dec)	
Time Rainfall Runoff Began: _____ am pm	
Name of Inspector (print):	
Signature:	
Outfall SW-10: Discharge end of Future Parkland Landfill Sedimentation Basin riprap outlet	Time of Observation: __ : __ am pm ***(Must be within 60 minutes of time rainfall began).***
Color: ☐Clear ☐Red ☐Yellow ☐Brown ☐Other:	
Odor: ☐None ☐Musty ☐Sewage ☐Rotten Egg ☐Other:	
Clarity: ☐Clear ☐Cloudy ☐Opaque ☐Suspended Solids ☐Other:	
Floatables: ☐None ☐Foam ☐Garbage ☐Oily Sheen ☐Other:	
Deposits/Stains: ☐None ☐Oily ☐Sludge ☐Sediments ☐Other:	
Comments (include possible causes of any contamination noted and possible BMPs to control):	
This outfall could not be evaluated during this quarter due to the following reason(s):	
☐ Extended Drought	☐ Dangerous Weather
☐ Extended Freeze	☐ Storms did not occur during normal business hours
☐ Other (describe):	

Attachment A2

Quarterly Site Inspection Form

ATTACHMENT A2
Quarterly Site Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Location: Emerald Park Landfill Muskego, WI	**Inspector (print name):**
Date:	**Signature:**
Time:	**Weather at time of inspection:** ☐ Clear ☐ Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Snow ☐ High Winds ☐ Other: Temperature: _____
Have any previously unidentified discharges of pollutants occurred since the last inspection? ☐ Yes ☐ No If yes, describe:	
Are there any discharges occurring at the time of inspection? ☐ Yes ☐ No If yes, describe:	

SWPPP and Site Map: Have a copy of the SWPPP and site map with you during the inspection so that you can ensure they are current and accurate. Use it as an aid in recording the location of any issues you identify during the inspection.

Findings and Remedial Action Documentation: Describe any findings below and the schedule for remedial action completion including the date initiated and date completed or expected to be completed.

Is the site map current and accurate?	**Yes / No**	**Findings:**
Is the SWPPP inventory of activities, materials, and products current?	**Yes / No**	**Findings:**

Any new potential pollutant sources must be added to the map and reflected in the SWPPP.

ATTACHMENT A2 (Continued)
Quarterly Site Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Source Area/BMPs	Observations	If No, New/Additional BMP Required?	Notes, Repairs, Actions Taken
Landfill Operations			
Is storm water in contact with daily cover or waste being routed to the leachate collection system?	Y / N / NA	Y / N / NA	
Are diversion structures diverting storm water that has not come into contact with waste from active landfill areas?	Y / N / NA	Y / N / NA	
Are landfill operations being performed in accordance with the Plan of Operation?	Y / N / NA	Y / N / NA	
Final cover and intermediate cover in good condition?	Y / N / NA	Y / N / NA	
Are diversion berms, downslope flumes, perimeter ditches and/or other storm water features in good condition?	Y / N / NA	Y / N / NA	
Site Construction Events			
Are erosion control practices (e.g., silt fence) in place?	Y / N / NA	Y / N / NA	
Are erosion control practices in good condition?	Y / N / NA	Y / N / NA	
Are there signs of sediment entering wetlands, waterbodies or discharging off-site?	Y / N / NA	Y / N / NA	
Is the construction area free of debris?	Y / N / NA	Y / N / NA	
Are inactive stockpiles vegetated?	Y / N / NA	Y / N / NA	

ATTACHMENT A2 (Continued)
Quarterly Site Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Source Area/BMPs	Observations	If No, New/Additional BMP Required?	Notes, Repairs, Actions Taken
Is sediment tracked onto public streets being cleaned daily?	Y / N / NA	Y / N / NA	
Are chemical liquids and fluids covered from precipitation?	Y / N / NA	Y / N / NA	
Good Housekeeping BMPs			
Are containers in good condition?	Y / N / NA	Y / N / NA	
Are containers labeled?	Y / N / NA	Y / N / NA	
Equipment Maintenance Area/Maintenance Shop			
Are maintenance tools, equipment, and materials stored indoors?	Y / N / NA	Y / N / NA	
Are all drums and containers of fluids stored with proper cover and containment?	Y / N / NA	Y / N / NA	
Are the vehicles and/or equipment maintained to be leak-free? If no, identify leaking equipment.	Y / N / NA	Y / N / NA	
Is the site area clear of any evidence of leaks or spills since last inspection? If not, identify and address.	Y / N / NA	Y / N / NA	
Are materials, equipment, and activities located so that leaks are contained in existing containment and diversion systems (confine the storage of leaky or leak-prone vehicles and equipment awaiting maintenance to protected areas)?	Y / N / NA	Y / N / NA	

ATTACHMENT A2 (Continued)
Quarterly Site Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Source Area/BMPs	Observations	If No, New/Additional BMP Required?	Notes, Repairs, Actions Taken
Are inlets free of debris and buildup?	Y / N / NA	Y / N / NA	
Are maintenance activities occurring indoors?	Y / N / NA	Y / N / NA	
Is the area free of debris?	Y / N / NA	Y / N / NA	
Outdoor Storage Areas			
Are waste storage containers in good condition (no holes, leaks, non-functioning seals)?	Y / N / NA	Y / N / NA	
Are outdoor storage containers covered?	Y / N / NA	Y / N / NA	
Are containers being emptied before they become too full?	Y / N / NA	Y / N / NA	
Are the storage area and its surroundings free of litter/debris?	Y / N / NA	Y / N / NA	
Is the storage container and surrounding area clear of any signs of contamination (e.g., stained soil)?	Y / N / NA	Y / N / NA	
On-Site Fueling Area			
Are the tank and dispensing equipment free of apparent leaks?	Y / N / NA	Y / N / NA	
Is the fueling area clear of any signs of spills or leaks?	Y / N / NA	Y / N / NA	
Vehicular Traffic and Parking			
Are access road and parking areas in good condition (no signs of erosion or damage)?	Y / N / NA	Y / N / NA	

ATTACHMENT A2 (Continued)
Quarterly Site Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Source Area/BMPs	Observations	If No, New/Additional BMP Required?	Notes, Repairs, Actions Taken
Are traffic and parking areas clear of any signs of contamination/spills?	Y / N / NA	Y / N / NA	
Are paved surfaces free of accumulated dust/sediment and debris?	Y / N / NA	Y / N / NA	
Is dust generation due to traffic flow levels limited to minimal levels? If no, are steps being taken to reduce dust?	Y / N / NA	Y / N / NA	
Storm Water Treatment BMPs			
Are the sedimentation basin(s) functioning properly?	Y / N / NA	Y / N / NA	
Are embankments in good condition (no erosion, animal burrows, woody vegetation)?	Y / N / NA	Y / N / NA	
Are the basins/biofilters free from signs of contamination (litter, sheen, color)?	Y / N / NA	Y / N / NA	
Is the basin/biofilter depth still adequate everywhere, not compromised by sediment buildup? (If sediment removal needed, note where.)	Y / N / NA	Y / N / NA	
Is the basin(s) free of debris?	Y / N / NA	Y / N / NA	
Are diversion berms, downslope flumes, energy dissipaters, perimeter ditches and culverts used to divert and direct discharges adequate and in good condition?	Y / N / NA	Y / N / NA	

ATTACHMENT A2 (Continued)
Quarterly Site Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Source Area/BMPs	Observations	If No, New/Additional BMP Required?	Notes, Repairs, Actions Taken
Compost and Concrete Recycling Operations			
Are stockpiles free of signs of erosion? If no, implement control measures (e.g., stone ditch checks, silt fence, diversion structures).	Y / N / NA	Y / N / NA	
Is dust adequately controlled?	Y / N / NA	Y / N / NA	
Is runon being diverted from the operation?	Y / N / NA	Y / N / NA	
Are compositing operations being performed in accordance with the facility license?	Y / N / NA	Y / N / NA	
Is vegetation maintained in discharge areas?	Y / N / NA	Y / N / NA	
Is the compost area free of ponding?	Y / N / NA	Y / N / NA	
Are materials being stored within the compost pad limits?	Y / N / NA	Y / N / NA	
Bare Soil Areas			
Is the site is free of eroded or bare soil areas that discharge off site?	Y / N / NA	Y / N / NA	
Salt Storage Piles			
Are salt storage piles kept on an impervious, curbed surface, and enclosed in a building/structure or covered so that neither precipitation nor storm water runoff can come into contact with the stored salt?	Y / N / NA	Y / N / NA	

ATTACHMENT A2 (Continued)
Quarterly Site Inspection Form
Emerald Park Landfill – Muskego, Wisconsin

Source Area/BMPs	Observations	If No, New/Additional BMP Required?	Notes, Repairs, Actions Taken
Is any salt spillage resulting from loading/unloading activities cleaned up immediately?	Y / N / NA	Y / N / NA	

CORRECTIVE ACTION AND SWPPP MODIFICATIONS DESCRIPTIONS: Additional space to describe inspection findings and corrective actions if needed. Provide brief explanation of the general location and the rationale for the additional or different BMPs.

_____
_____
_____
_____
_____
_____
_____
_____
_____

Attachment B

Non-Storm Water Discharge Evaluation and Documentation

ATTACHMENT B
SWPPP Non-Storm Water Discharge Evaluation and Documentation
Emerald Park Landfill – Muskego, Wisconsin

Applicable Section of General Permit:	• Perform inspections in accordance with Section 4.2 of the General Permit. • Eliminate discharges not authorized by the General Permit or covered by the General Permit. • Refer to Section 2.4.3 of the General Permit for examples of non-storm water discharges that the General Permit does not apply to.
Evaluation Criteria:	• Perform visual end of pipe screening for each outfall. • Perform inspections twice per year during dry periods. • Document on the form below. • Complete one page for each outfall. • Maintain records on site.
If personnel are unable to evaluate an outfall:	• Check the box for the corresponding outfall and sign the statement certifying that this requirement could not be complied with. • Include a copy of the statement in the SWPPP and the AFSCI report. • Submit the statement to the Wisconsin Department of Natural Resources within 30 days after personnel determines that they are unable to evaluate an outfall.
If a non-storm water discharge is identified:	• Notify the SWPPP Coordinator. • Evaluate the source and determine whether it is exempt (see Section 2.4.3 of the General Permit) or covered under another WPDES permit. • If not exempt or covered under another permit, eliminate the discharge or cover the discharge under another permit.

ATTACHMENT B (Continued)
SWPPP Non-Storm Water Discharge Evaluation and Documentation
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Evaluation: ____ / ____ / 20___ ___
Name of Inspector (print):	
Signature:	

Outfall SW-1A: Discharge end of Sedimentation Basin No. 1 outlet structure	Time of Evaluation: ___ : ___ am pm
Check if any of the following indications of a non-storm water discharge are present:	
Dry weather flow? ☐ No ☐ Yes - Describe:	
Staining present? ☐ No ☐ Yes - Describe:	
Sludge present? ☐ No ☐ Yes - Describe:	
Color? ☐ No ☐ Yes - Describe:	
Odor? ☐ No ☐ Yes - Describe:	
Other indications of non-storm water discharge? ☐ No ☐ Yes - Explain below:	
☐ This outfall could not be evaluated for non-storm water discharges; this requirement could not be complied with. Reason: Signature:_____	

ATTACHMENT B (Continued)
SWPPP Non-Storm Water Discharge Evaluation and Documentation
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Evaluation: ____ / ____ / 20___ ___
Name of Inspector (print):	
Signature:	

Outfall SW-2: Discharge end of Sedimentation Basin No. 2 outlet structure	Time of Evaluation: ___ : ___ am pm
Check if any of the following indications of a non-storm water discharge are present:	
Dry weather flow? ☐ No ☐ Yes - Describe:	
Staining present? ☐ No ☐ Yes - Describe:	
Sludge present? ☐ No ☐ Yes - Describe:	
Color? ☐ No ☐ Yes - Describe:	
Odor? ☐ No ☐ Yes - Describe:	
Other indications of non-storm water discharge? ☐ No ☐ Yes - Explain below:	
☐ This outfall could not be evaluated for non-storm water discharges; this requirement could not be complied with. Reason: Signature:_____	

ATTACHMENT B (Continued)
SWPPP Non-Storm Water Discharge Evaluation and Documentation
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Evaluation: ____ / ____ / 20___ ___
Name of Inspector (print):	
Signature:	

Outfall SW-3: Discharge end of Sedimentation Basin No. 3 outlet structure	Time of Evaluation: ___ : ___ am pm
Check if any of the following indications of a non-storm water discharge are present:	
Dry weather flow? ☐ No ☐ Yes - Describe:	
Staining present? ☐ No ☐ Yes - Describe:	
Sludge present? ☐ No ☐ Yes - Describe:	
Color? ☐ No ☐ Yes - Describe:	
Odor? ☐ No ☐ Yes - Describe:	
Other indications of non-storm water discharge? ☐ No ☐ Yes - Explain below:	
☐ This outfall could not be evaluated for non-storm water discharges; this requirement could not be complied with. Reason: Signature:_____	

ATTACHMENT B (Continued)
SWPPP Non-Storm Water Discharge Evaluation and Documentation
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Evaluation: ____ / ____ / 20___ ___
Name of Inspector (print):	
Signature:	

Outfall SW-4: Discharge end of Concrete Recycling Pad Sedimentation Basin outlet structure	Time of Evaluation: ___ : ___ am pm
Check if any of the following indications of a non-storm water discharge are present:	
Dry weather flow? ☐ No ☐ Yes - Describe:	
Staining present? ☐ No ☐ Yes - Describe:	
Sludge present? ☐ No ☐ Yes - Describe:	
Color? ☐ No ☐ Yes - Describe:	
Odor? ☐ No ☐ Yes - Describe:	
Other indications of non-storm water discharge? ☐ No ☐ Yes - Explain below:	
☐ This outfall could not be evaluated for non-storm water discharges; this requirement could not be complied with. Reason: Signature:_____	

ATTACHMENT B (Continued)
SWPPP Non-Storm Water Discharge Evaluation and Documentation
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Evaluation: ____ / ____ / 20___ ___
Name of Inspector (print):	
Signature:	

Outfall SW-5: Discharge end of Sedimentation Basin No. 5 outlet structure	Time of Evaluation: ___ : ___ am pm
Check if any of the following indications of a non-storm water discharge are present:	
Dry weather flow? ☐ No ☐ Yes - Describe:	
Staining present? ☐ No ☐ Yes - Describe:	
Sludge present? ☐ No ☐ Yes - Describe:	
Color? ☐ No ☐ Yes - Describe:	
Odor? ☐ No ☐ Yes - Describe:	
Other indications of non-storm water discharge? ☐ No ☐ Yes - Explain below:	
☐ This outfall could not be evaluated for non-storm water discharges; this requirement could not be complied with. Reason: Signature:_____	

ATTACHMENT B (Continued)
SWPPP Non-Storm Water Discharge Evaluation and Documentation
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Evaluation: ____ / ____ / 20___ ___
Name of Inspector (print):	
Signature:	

Outfall SW-6: Discharge end of Sedimentation Basin No. 6 outlet structure	Time of Evaluation: ___ : ___ am pm
Check if any of the following indications of a non-storm water discharge are present:	
Dry weather flow? ☐ No ☐ Yes - Describe:	
Staining present? ☐ No ☐ Yes - Describe:	
Sludge present? ☐ No ☐ Yes - Describe:	
Color? ☐ No ☐ Yes - Describe:	
Odor? ☐ No ☐ Yes - Describe:	
Other indications of non-storm water discharge? ☐ No ☐ Yes - Explain below:	
☐ This outfall could not be evaluated for non-storm water discharges; this requirement could not be complied with. Reason: Signature:_____	

ATTACHMENT B (Continued)
SWPPP Non-Storm Water Discharge Evaluation and Documentation
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Evaluation: ____ / ____ / 20___ ___
Name of Inspector (print):	
Signature:	

Outfall SW-7: Discharge end of Sedimentation Basin No. 7 outlet structure	Time of Evaluation: ___ : ___ am pm
Check if any of the following indications of a non-storm water discharge are present:	
Dry weather flow? ☐ No ☐ Yes - Describe:	
Staining present? ☐ No ☐ Yes - Describe:	
Sludge present? ☐ No ☐ Yes - Describe:	
Color? ☐ No ☐ Yes - Describe:	
Odor? ☐ No ☐ Yes - Describe:	
Other indications of non-storm water discharge? ☐ No ☐ Yes - Explain below:	
☐ This outfall could not be evaluated for non-storm water discharges; this requirement could not be complied with. Reason: Signature:_____	

ATTACHMENT B (Continued)
SWPPP Non-Storm Water Discharge Evaluation and Documentation
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Evaluation: ____ / ____ / 20___ ___
Name of Inspector (print):	
Signature:	

Outfall SW-8: Discharge end of Sedimentation Basin No. 8 outlet structure	Time of Evaluation: ___ : ___ am pm
Check if any of the following indications of a non-storm water discharge are present:	
Dry weather flow? ☐ No ☐ Yes - Describe:	
Staining present? ☐ No ☐ Yes - Describe:	
Sludge present? ☐ No ☐ Yes - Describe:	
Color? ☐ No ☐ Yes - Describe:	
Odor? ☐ No ☐ Yes - Describe:	
Other indications of non-storm water discharge? ☐ No ☐ Yes - Explain below:	
☐ This outfall could not be evaluated for non-storm water discharges; this requirement could not be complied with. Reason: Signature:_____	

ATTACHMENT B (Continued)
SWPPP Non-Storm Water Discharge Evaluation and Documentation
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Evaluation: ____ / ____ / 20___ ___
Name of Inspector (print):	
Signature:	

Outfall SW-9: Discharge end of Sedimentation Basin No. 9 outlet structure	Time of Evaluation: ___ : ___ am pm
Check if any of the following indications of a non-storm water discharge are present:	
Dry weather flow? ☐ No ☐ Yes - Describe:	
Staining present? ☐ No ☐ Yes - Describe:	
Sludge present? ☐ No ☐ Yes - Describe:	
Color? ☐ No ☐ Yes - Describe:	
Odor? ☐ No ☐ Yes - Describe:	
Other indications of non-storm water discharge? ☐ No ☐ Yes - Explain below:	
☐ This outfall could not be evaluated for non-storm water discharges; this requirement could not be complied with. Reason: Signature:_____	

ATTACHMENT B (Continued)
SWPPP Non-Storm Water Discharge Evaluation and Documentation
Emerald Park Landfill – Muskego, Wisconsin

Emerald Park Landfill W124 S10629 South 124th Street Muskego, WI 53150	Date of Evaluation: ____ / ____ / 20___ ___
Name of Inspector (print):	
Signature:	

Outfall SW-10: Discharge end of Future Parkland Landfill Sedimentation Basin riprap outlet	Time of Evaluation: ___ : ___ am pm
Check if any of the following indications of a non-storm water discharge are present:	
Dry weather flow? ☐ No ☐ Yes - Describe:	
Staining present? ☐ No ☐ Yes - Describe:	
Sludge present? ☐ No ☐ Yes - Describe:	
Color? ☐ No ☐ Yes - Describe:	
Odor? ☐ No ☐ Yes - Describe:	
Other indications of non-storm water discharge? ☐ No ☐ Yes - Explain below:	
☐ This outfall could not be evaluated for non-storm water discharges; this requirement could not be complied with. Reason: Signature:_____	

Attachment C

Annual Facility Site Compliance Inspection Report

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wisconsin.gov

Annual Facility Site Compliance Inspection Report (AFSCI)

For Storm Water Discharges Associated With Industrial Activity Under Wisconsin Pollutant Discharge Elimination System (WPDES) Permit

Form 3400-176 (R 07/21)

Notice: This form is authorized by s. NR 216.29(2), Wis. Adm. Code. Submittal of a completed form to the Department is mandatory for industrial facilities covered under a Tier 1 storm water general permit. Facilities covered under a Tier 1 permit are not required to submit AFSCI reports after submittal of the second AFSCI report, unless so directed by the Department. However, these inspections and quarterly visual inspections shall still be conducted and results shall be kept on site for Department inspection. Facilities covered under a Tier 2 storm water general, industry-specific general or individual permit shall keep the results of their AFSCI and quarterly visual inspections on site for Department inspection. Failure to comply with these regulations may result in fines up to $25,000 per day pursuant to s. 283.91, Wis. Stats.

Personally identifiable information on this form may be used for other water quality program purposes.

Please type or clearly print your answers to all questions.

Section I: Facility/Site Information

Facility/Site Name (As Appears on Permit Authorization)	County	
Emerald Park Landfill, LLC	Waukesha	
Location Address/Description (if different from mailing address below)	State	ZIP Code
W124 S10629 South 124th Street, Muskego	WI	53150
◯ City ◯ Township ◯ Village of	Facility Identification Number (FID) and/or FIN Number if known: FID 268244130 FIN	

Section II: Facility/Site Contact Person

Local Contact Person	Mailing Address (if different than site location address)	
Title/Position Title	Municipality (if different than above)	
Telephone (include area code)	State: WI	ZIP Code (if different from above)
E-mail address or Website (if applicable)		Fax (include area code)

Section III: Certification & Signature

(Person attesting to the accuracy and completeness of Annual Facility Site Compliance Inspection Report.)

This form must be signed by an official representative of the permitted facility in accordance with s. NR 216.22(7), Wis. Adm. Code. See instructions on page 4. If this form is not signed, or is found to be incomplete, it will be returned.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative	Telephone Number (include area code)		
Type or Print Name	Company Name		
Position Title	Mailing Address		
Date Signed (mm/mm/yyyy)	Municipality	State: WI	ZIP Code

How to Use this Form:

The first level of storm water monitoring consists of a comprehensive annual facility site compliance inspection (AFSCI) to determine if your facility is operating in compliance with your Storm Water Pollution Prevention Plan (SWPPP). You should use the results of this inspection to determine the extent to which your SWPPP needs to be updated to prevent pollution from new source areas, as well as to correct any inadequacies that the plan may have in handling existing source areas. This first level of monitoring is addressed in Section IV of this Annual Report on page 2.

The second level of storm water monitoring consists of quarterly visual observations of storm water leaving the site during runoff events caused by snow-melt or rainfall. This is a practical, low cost tool for identifying obvious contamination of storm water discharges, and can also help identify which practices are ineffective. The goal of quarterly inspections is to obtain results from a set of four inspections that are distributed as evenly as possible throughout the year and which depict runoff quality during each of the four seasons. This second level of monitoring is addressed in Section V of this Annual Report on page 3.

Section IV: Annual Facility Site Compliance Inspection

The Annual Facility Site Compliance Inspection shall be adequate to verify that: your Storm Water Pollution Prevention Plan (SWPPP) remains current; potential pollution sources at your facility are identified; the facility site map and drainage map remain accurate; and that the Best Management Practices prescribed in your SWPPP are being implemented, properly operated, and adequately maintained.

Name of Person Conducting Inspection	Inspection Date
Employer	Telephone Number

Your inspection should start with a review of your written SWPPP kept at your facility. The SWPPP should be amended if, through these inspections, you find that the provisions in your SWPPP are ineffective in controlling contaminated storm water from being discharged from your facility. Notify the department if amendments to your SWPPP have been made based on the results of this Annual Facility Site Compliance Inspection Report that address significant operational or source area changes at the facility.

1.	Has your SWPPP been updated to include current Non-Storm Water Discharge Evaluation results (examples of non-storm water discharges include contact cooling water, non-contact cooling water, other process wastewaters, or illicit discharges identified during the evaluation period)?	◯ Yes	◯ No	◯ N/A
2.	Has there been construction at your facility that affects the site map, drainage conditions, or exposed materials?	◯ Yes	◯ No	◯ N/A
3.	Has your SWPPP been amended for any changes in facility operations that could be identified as new source areas for contamination of storm water?	◯ Yes	◯ No	◯ N/A
4.	Are there any other areas capable of contaminating storm water runoff that have not been addressed in the SWPPP?	◯ Yes	◯ No	◯ N/A
5.	Are there any materials at the facility that are handled, stored, or disposed of in a manner to allow exposure to storm water that are not currently addressed in your SWPPP?	◯ Yes	◯ No	◯ N/A
6.	Are there any vehicle or equipment maintenance or material handling activities conducted outdoors that have not been addressed in your SWPPP?	◯ Yes	◯ No	◯ N/A
7.	Are outside areas kept in a neat and orderly condition?	◯ Yes	◯ No	◯ N/A
8.	Are regular housekeeping inspections conducted and observed issues addressed?	◯ Yes	◯ No	◯ N/A
9.	Are there spots, pools, puddles, or other traces/residuals of oils, grease, or other chemicals on the ground?	◯ Yes	◯ No	◯ N/A
10.	Are particulates on the ground from industrial operations or processes being controlled?	◯ Yes	◯ No	◯ N/A
11.	Are there any leaking equipment, pipes or containers or heavy oxidation/rusting on containers?	◯ Yes	◯ No	◯ N/A
12.	Do drips, spills, or leaks occur when materials are being transferred from one source to another?	◯ Yes	◯ No	◯ N/A
13.	Are drips or leaks from vehicles or equipment being controlled (i.e. compactors, forklifts, semis, hydraulic loading docks, etc.)?	◯ Yes	◯ No	◯ N/A
14.	Are cleanup procedures used for spilled solids?	◯ Yes	◯ No	◯ N/A
15.	Are absorbent materials (floor dry, kitty litter, etc.) regularly used to absorb spills?	◯ Yes	◯ No	◯ N/A
16.	Are ventilation systems and drain pipes free of discoloration, residue or corrosion?	◯ Yes	◯ No	◯ N/A
17.	Are Best Management Practices implemented to reduce or eliminate contamination of storm water from source areas at the facility?	◯ Yes	◯ No	◯ N/A
18.	Are Best Management Practices adequately maintained?	◯ Yes	◯ No	◯ N/A
19.	Are changes to your SWPPP needed to correct plan inadequacies to effectively control a discharge of contaminated storm water from your facility?	◯ Yes	◯ No	◯ N/A
20.	Are areas of soil erosion present at your facility that require amendments to the SWPPP to address?	◯ Yes	◯ No	◯ N/A
21.	Are filtration or settling treatment practices evaluated, functioning, and adequately maintained?	◯ Yes	◯ No	◯ N/A

Comments/ Questions or Concerns:

Section V: Quarterly Visual Inspection Reports

Quarterly Visual Inspections at each storm water discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Storm Water General Permits. These inspections should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probable source and list any possible Best Management Practices that will be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan based on the results of your Quarterly Visual Inspections. Notify the department if amendments to your SWPPP are made based on inspections and include significant operational or source area changes at the facility. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

	Date of Inspection			
Outfall Number	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter

Briefly summarize what you found when conducting your Quarterly Visual Inspections. (Include any observations of color, odor, turbidity, floating solids, foam, oil sheen, or any other indications of storm water pollution and the probable sources of any observed storm water contamination.)

Instructions

Section I: Facility/Site Information

Provide the name of the facility as it appears on the permit application or permit cover letter and location address. If known, provide the Facility Identification (FID) and/or FIN Number assigned by the WDNR. Facility Identification (FID) and/or FIN Number can be found by a query at the following website: https://dnr.wi.gov/topic/stormwater/data/industrial/index.asp.

Section II: Facility/Site Contact Person

Provide the local contact person information for the facility. The mailing address should be given for the facility contact person if it is different from the facility site location address information.

Section III: Certification & Signature

State Statutes provide for severe penalties for submitting false information on this AFSCI form. State regulations require this form be signed by an Authorized Representative as follows:

a. For a corporation, by a principal executive officer of at least the level of Vice President, or a duly authorized representative having overall responsibility for the operation covered by this permit.
b. For a unit of government, a principal executive officer, a ranking elected official, or other duly authorized representative.
c. For a partnership, by a general partner; for a sole proprietorship, by the proprietor.
d. For a limited liability company, by member or manager.

If the Authorized Representative has changed, please complete the following form: https://dnr.wi.gov/files/PDF/forms/3400/3400-220.pdf and mail the completed form to the appropriate mailing address below. Updated forms can also be emailed directly to programmatic staff assigned for the county where the facility is located. Storm Water staff can be found by accessing the following weblink: https://dnr.wisconsin.gov/topic/Stormwater/contacts.html

Section IV: Annual Facility Site Compliance Inspection

Provide the name of the person conducting the inspection, inspection date, name of employer, and telephone number. Check the appropriate box for each of the listed questions and provide explanations in the comment box as needed.

Notify Storm Water Staff if SWPPP amendments in section IV of the Annual Facility Site Compliance Inspections address significant operational or source areas at the facility. Staff assignments by county are found at the following weblink: https://dnr.wisconsin.gov/topic/Stormwater/contacts.html

Section V: Quarterly Visual Inspection Reports

Provide the outfall number in the table and the dates of each quarterly visual inspection. Summarize the findings of your visual inspections in the space provided below the table. Attach additional sheets or Quarterly Visual Inspections if needed. The Quarterly Visual Inspection - Field Sheet can be accessed at the following weblink: https://dnr.wisconsin.gov/topic/Stormwater/industrial/forms.html.

Notify Storm Water Staff if SWPPP amendments in section V of the Annual Facility Site Compliance Inspections address significant operational or source areas at the facility. Staff assignments by county are found at the following weblink: https://dnr.wisconsin.gov/topic/Stormwater/contacts.html

Submittal of Electronic Information or Mailing Address

The Department utilizes an online e-permitting system that allows permittees to electronically submit information. This form may be submitted electronically at the following website: https://dnr.wisconsin.gov/permits/water. If directed to do so, mail this completed form to the Wisconsin Department of Natural Resources (WDNR) office associated with the county of the facility site location as follows:

NORTHERN REGION (NOR)			
Ashland	Forest	Price	WDNR Eau Claire Service Center
Barron	Iron	Rusk	1300 W Clairemont Ave
Bayfield	Langlade	Sawyer	Eau Claire, WI 54701
Burnett	Lincoln	Taylor	(715) 839-1636
Douglas	Oneida	Vilas	
Florence	Polk	Washburn	
NORTHEAST REGION (NER)			
Brown	Manitowoc	Shawano	WDNR Northeast Regional Headquarters
Calumet	Marinette	Waupaca	2984 Shawano Avenue
Door	Marquette	Waushara	Green Bay, WI 54313-6727
Fond du Lac	Menominee	Winnebago	(920) 662-5100
Green Lake	Oconto		
Kewaunee	Outagamie		
WEST CENTRAL REGION (WCR)			
Adams	Jackson	Pierce	WDNR Eau Claire Service Center
Buffalo	Juneau	Portage	1300 W Clairemont Ave
Chippewa	La Crosse	St. Croix	Eau Claire, WI 54701
Clark	Marathon	Trempealeau	(715) 839-1636
Crawford	Monroe	Vernon	
Dunn	Pepin	Wood	
Eau Claire			
SOUTH CENTRAL REGION (SCR)			
Columbia	Green	Richland	WDNR South Central Regional Headquarters
Dane	Iowa	Rock	3911 Fish Hatchery Road
Dodge	Jefferson	Sauk	Fitchburg, WI 53711
Grant	LaFayette		(608) 275-3266
SOUTHEAST REGION (SER)			
Kenosha	Racine	Washington	WDNR SER Headquarters
Milwaukee	Sheboygan	Waukesha	940 W. St. Paul Ave.
Ozaukee	Walworth		Milwaukee, WI 53233
			(414) 477-1119

Attachment D

Receiving Water Classification Review Information

ATTACHMENT D
Receiving Water Classification Review Information
Emerald Park Landfill – Muskego, Wisconsin

Category	Instructions for Reviewing Classification
Impaired Waters and TMDL Review	• Go to WDNR website: http://dnr.wi.gov/water • Click "Impaired Waters" • Enter WBIC "762400" and hit the "Search" button. • Click on the Official Name "Big Muskego Lake" link. • Under the "Listing Details", note any listed impairments and associated pollutants and if the water has a TMDL. • Click on "View Water Details." • Impairments and pollutants are also listed in the top section of this page. • Repeat the search using WBIC "761700" for "Wind Lake."

Note: WDNR webpage addresses and links can change. If problems arise with the search directions listed above, contact SCS at (608) 224-2830.

ATTACHMENT D (Continued)
Receiving Water Classification Review Information
Emerald Park Landfill – Muskego, Wisconsin

Review annually by February 15 of each year, and document the results in the Annual Report (Attachment C).

Date of Review	Person Performing Review (Print Name)	Receiving Water(s)		Comments
		Impaired?	Approved TMDL?	
02/15/13	Betsy Powers, PE SCS Engineers	N	N	Big Muskego Lake is not impaired and does not have an approved TMDL.
01/07/14	Betsy Powers, PE SCS Engineers	N	N	Unchanged from 2013
03/17/15	Jared Omernik, PE SCS Engineers	N	N	Unchanged from 2014
02/01/16	Brian Meister, EIT SCS Engineers	N	N	Unchanged from 2015
11/3/16	Rick Guenther, PE SCS Engineers	N	N	Unchanged
1/16/17	Betsy Powers, PE SCS Engineers	N	N	Unchanged
2/12/18	Rick Guenther, PE SCS Engineers	N	N	Unchanged
2/8/19	Rick Guenther, PE SCS Engineers	N	N	Unchanged
1/3/20	Betsy Powers, PE SCS Engineers	N	N	Unchanged
2/15/21	Betsy Powers, PE SCS Engineers	N	N	Unchanged
1/12/22	Zana Bajalan SCS Engineers	N	N	Unchanged
10/07/22	Mark Hammers SCS Engineers	Y	N	Big Muskego Lake drains to Wind Lake via the Muskego Canal. Wind Lake is impaired for low dissolved oxygen and excess algal growth, with the pollutant of concern being total phosphorus.
		Y / N	Y / N	
		Y / N	Y / N	

Notes:
1. If the receiving water is classified as impaired or has an approved TMDL, refer to Section 2.8 of the General Permit.
2. If the site does not directly discharge into an impaired water, but eventually discharges to an impaired waterbody, the WDNR has indicated that the facility should review its site operations and BMPs to determine if more can be done to reduce the contaminant(s) of concern.