Wetland Delineation Addendum

Emerald Park Landfill - Proposed Western Expansion

NOVEMBER 24, 2021 #4211764

PRESENTED TO

Emerald Park Landfill, LLC

W124 S10629 124 Street Muskego, WI 53150

SUBMITTED BY

Tetra Tech 8413 Excelsior Dr. Suite 160 Madison, WI 53717 P +1.877.294.9070 F +1.877.845.1456 tetratech.com

REPORT CERTIFICATION

The material and data in this report were prepared under the supervision and direction of the undersigned.

Luke Specketer Date
Scientist

Sarah LeMoine, PE Date

Environmental Engineer

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FIGURES

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APPENDICES

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1.0 INTRODUCTION

On behalf of Emerald Park Landfill, LLC (EPL), Tetra Tech performed a wetland delineation confirmation of the previous 2014/2015 wetland delineation done by Stantec at the EPL. The purpose of the field work was to confirm the previously delineated wetland areas within the defined Wetland Project Area (see Figure 1) for the proposed landfill Western Expansion.

Site Name/ID:	Emerald Park Landfill – Western Expansion Wisconsin Department of Natural Resources (WDNR) Permitted Landfill #3290						
Property Ownership:	Emerald Park Landfill, LLC						
Site Address:	W124 S10629 124 Street, Muskego, WI 53150						
Authorized Facility Contact:	Mr. Tim Curry, Midwest Region Landfill Operations Manager Phone: (636) 529-1974						
Assessed Area:	The assessed area consists of approximately 70 acres located in Section 36, Township 5 North, Range 20 East. The Wetland Project Area is located west of the existing landfill.						
Current Property Use:	The EPL property is currently utilized for a municipal solid waste landfill and agriculture; the area of the property where the horizontal expansion footprint would be located is currently utilized for agricultural purposes.						
Proposed Site Redevelopment:	The proposed Western Expansion consists of an approximately 29.3-acre horizontal expansion west of the currently permitted Phase 6 and Phase 7 landfill area as well as an approximately 23.1-acre vertical expansion overlaying the currently permitted landfill.						
Field Dates:	September 27, 28 and 29, 2021						
Field Staff:	Luke Specketer - Luke Specketer has a Bachelor of Science Degree (Geology) from Colorado State University; is a licensed Professional Geologist in Wisconsin; has completed 24 hr. Basic Wetland Delineation Training through the University of Wisconsin – LaCrosse and 16 hr. Advanced Wetland Delineation Training through the University of Wisconsin – LaCrosse. Sarah LeMoine - has a Bachelor of Science Degree (Environmental Engineering) from University of Wisconsin – Platteville; is a licensed Professional Engineer in Wisconsin; has completed 24 hr. Basic Wetland Delineation Training, 16 hr.						
	Advanced Wetland Delineation Training, 16 hr. Basic Plant Identification Training, and 6 hr. Critical Methods in Wetland Delineation Training through the University of Wisconsin – LaCrosse; and has over 15 years of field delineation experience.						

2.0 METHODS

Wetland delineation activities were completed according to the criteria and methods outlined in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (NC/NE Regional Supplement, 2012), *United States Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1* (USACE 1987), subsequent guidance documents (USACE 1991, 1992), and *Guidance for Submittal Delineation Reports to the St. Paul District Army Corps of Engineers and the Wisconsin Department of Natural Resources* (USACE 2015).

2.1 FIELD METHODS

Previously delineated and WDNR confirmed on-site wetland areas were identified using the three criteria (vegetation, soil and hydrology) and technical guidelines defined in the NC/NE Regional Supplement. According to procedures described in the NC/NE Regional Supplement, areas that under normal circumstances reflect a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology (e.g., inundated or saturated soils) are considered wetlands.

2.2 SOURCES REVIEWED

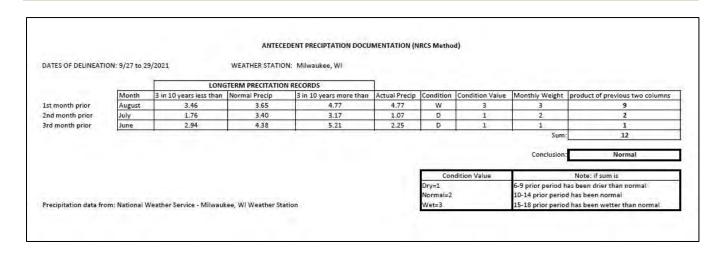
Source materials reviewed for the wetland delineation included:

- United States Geological Survey (USGS) topographic maps;
- Natural Resources Conservation Service (NRCS) soil survey;
- WDNR Surface Water Data Viewer;
- United State Fish and Wildlife Service (USFWS) National Wetlands Inventory;
- Aerial photography;
- Farm Service Agency (FSA) slides;
- Wetland Delineation Report for Emerald Park Landfill by Stantec dated December 10, 2014 and the subsequent Wetland Delineation Report Addendum dated May 18, 2015;
- National Weather Service (NWS) data was analyzed for antecedent precipitation conditions to characterize field observations.

A full list of references and citations is included in Section 5.

3.0 RESULTS AND DISCUSSION

3.1 ANTECEDENT HYDROLOGIC CONDITION ANALYSIS



Using precipitation data from the NWS Station in Milwaukee, Wisconsin and the NRCS Antecedent Precipitation Method (shown in image above), the antecedent precipitation for the site was determined to be "Normal" during Tetra Tech's 2021 wetland confirmation. The "Normal" finding was taken in account when considering hydrology and hydrophytic vegetation within the Wetland Project Area. When the boundaries were originally delineated by Stantec in 2014 the antecedent precipitation conditions were considered drier than normal, Stantec's antecedent precipitation analysis can be found in the 2014 Wetland Delineation Report in Appendix C.

3.2 PREVIOUS WETLAND DELINEATION

A wetland delineation report was completed by Stantec and is dated December 10, 2014 and the subsequent memorandum by Cornerstone is dated May 18, 2015 and are included in Appendix C. Confirmation of the 2014 wetland boundaries from the WDNR and USACE was granted in June 2015 (Appendix E). The Wetland Project Area reviewed by Tetra Tech during the 2021 wetland confirmation field activities is the same area of study from the 2014 Stantec report. The established wetland boundaries were confirmed by Tetra Tech during the 2021 field activities. The results of Tetra Tech's field activities determined no changes are required to the WDNR/USACE confirmed wetland delineation boundaries (see Figure 1). Differences in vegetation were identified during Tetra Tech's field activities at the data points that were used for the confirmation. The vegetation at each of the confirmation sample points was recorded on a wetland determination form and can be found In Appendix A.

3.3 AERIAL PHOTOGRAPHY REVIEW

The FSA slide review for the agricultural fields within the Wetland Project Area was completed by Stantec for the previous delineation using FSA slides from 1992 to 2010; the findings can be reviewed in the 2014 wetland delineation report in Appendix C.

Additional color aerial photography for the years 2015, 2017, 2018 and 2021 was examined by Luke Specketer of Tetra Tech on October 6, 2021 for the presence of wetland signatures. A wetland signature is the indication of ponding, flooding, or impacts of saturation for sufficient duration as observed on aerial photographs that meets wetland hydrology and possibly wetland vegetation criteria. Wetland signatures in Wisconsin cropland include:

- a. Hydrophytic vegetation (seen as a different shade of green);
- b. Surface water (usually black or white);
- c. Drowned-out crops (bare soil or mud flats);
- d. Difference in color due to different planting dates or isolated areas not farmed with the rest of the field:
- e. Inclusion of wet areas set-aside program;
- f. Patches of greener color in "dry" years;
- g. Crop stress (yellow) or sparse canopy (light green);
- h. Changes in vegetation (light to dark, density);
- i. Saturated soil visible on infrared (IR) slides or photos.

Areas within agricultural fields were identified as potential wetland if they contained hydric soils and 50% or more of the aerial photographs showed any of the wetland signatures described.

The additional aerial photograph review resulted in the same agricultural field areas identified previously by Stantec within W1, W2, W2A, W7, W8, W9, and W11 showing wetland signatures in 50% or more of the aerial photograph years reviewed (see Figure 1). Additionally, each wetland area contained hydric soils during the field investigations.

Copies of the additional aerial photographs reviewed in 2021 are included in Appendix D.

3.4 ENVIRONMENTAL MAPPING

The NRCS Soil Survey and the Wisconsin Wetland Inventory maps of the wetland project area are included in the previous 2014 wetland delineation report done by Stantec and can be found in Appendix C.

3.5 WETLANDS LOCATED WITHIN THE WETLAND PROJECT AREA

Tetra Tech's approach to confirming the previous delineation completed by Stantec included walking the previous delineated boundaries and checking for changes in wetland criteria compared to the 2014 observations. Wetland determination data points were completed in 2021 at a subset of the locations from the 2014 report. Tetra Tech used the information gathered to confirm the boundaries of the previously delineated wetlands by first reestablishing a known data point in a wetland area and then re-establishing the matching upland data point. Data point observations were documented on wetland determination data forms; see Appendix A for all confirmation data points completed by Tetra Tech in September 2021 and see Appendix C for all the data points completed previously by Stantec in 2014/2015. Landscape position based on microtopography is the driving factor for where wetlands are located in the Wetland Project Area, upland points were collected in areas of increased elevation or outside of depressions. The wetland boundary was established between the wetland and upland data points along a transect, excluding areas as upland where one or more of the three wetland parameters (hydrology, hydric soil or hydrophytic vegetation) were not observed, and including areas within the wetland where all three parameters were met. Due to the amount of agricultural land practices within the wetland project area aerial photos were also used to help determine wetland boundaries within farmed areas, as described in Section 3.3. Photos of the confirmation data point locations taken by Tetra Tech are shown in Appendix B and photos from the 2014 delineation can be found in Appendix C.

3.6 DISTURBED AND PROBLEMATIC AREAS

There were no naturally problematic areas encountered during the Tetra Tech investigation. The areas within agricultural fields were considered disturbed, as noted on the wetland determination data forms in Appendix A.

3.7 OTHER WATER RESOURCES LOCATED ON THE PROPERTY

During both wetland delineation field efforts, two maintained agricultural ditches were encountered. These waterways were discussed in the 2014 wetland delineation report found in Appendix C. During the 2021 wetland delineation activities completed by Tetra Tech, both waterways were observed to be dry within the Wetland Project Area.

4.0 CONCLUSION

Tetra Tech completed a wetland delineation confirmation of the previously completed wetland delineation done by Stantec in 2014/2015 for the EPL Proposed Western Expansion Project. Tetra Tech agreed with the wetland areas and boundaries that were previously identified within the Wetland Project Area based on field data collected and a review of post-2015 aerial photography. Tetra Tech recommends that EPL obtain all necessary permits, regulatory review and regulatory concurrence to comply with applicable regulations regarding the proposed Western Expansion Project.

5.0 REFERENCES

- Chadde, Steve W. 2012. A Great Lakes Wetland Flora. A Bogman Guide. Lexington, KY.
- Munsell Soil Color. 2009. Munsell® Soil Color Charts. Grand Rapids, MI.
- Stantec. 2014. Wetland Delineation Report, Emerald Park Landfill Advanced Disposal Services, Inc. Authored by Eric C. Parker, PWS and Melissa Curran.
- Cornerstone Environmental Group. 2015. Wetland Delineation Memorandum, Emerald Park Landfill West Expansion Wetland Delineation. Authored by Tyler Field.
- USACE (U.S. Army Corps of Engineers). 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- USACE. 1990. "Clarification of the Phrase "Normal Circumstances" as it pertains to Cropped Wetlands," Regulatory Guidance Letter (RGL) 90-7 dated 26 September 1990.
- USACE. 1991. "Implementation of the 1987 Corps Wetland Delineation Manual," memorandum from John P. Elmore dated 27 August 1991.
- USACE. 1991. "Questions & Answers on the 1987 Manual," memorandum from John F. Studt dated 7 October 1991.
- USACE. 1992. "Clarification and Interpretation of the 1987 Manual," memorandum from Major General Arthur E. Williams dated 6 March 1992.
- USACE. 2012. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region.
- USACE. 2015. Guidance for Submittal Delineation Reports to the St. Paul District Army Corps of Engineers and the Wisconsin Department of Natural Resources.
- USDA, Soil Conservation Service, Web Soil Survey https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.
- United States Geological Survey (USGS), Wisconsin 7.5 Minute Series (Topographic) Maps.
- Google Earth (October 6, 2021), Image Landsat / Copernicus.
- WDNR (Wisconsin Department of Natural Resources), Wisconsin Surface Water Data Viewer Wisconsin Wetlands Inventory, https://dnrmaps.wi.gov/H5/?Viewer=SWDV&runWorkflow=Wetland.
- U.S. Fish and Wildlife Service, National Wetlands Inventory, https://www.fws.gov/wetlands/Data/Mapper.html.

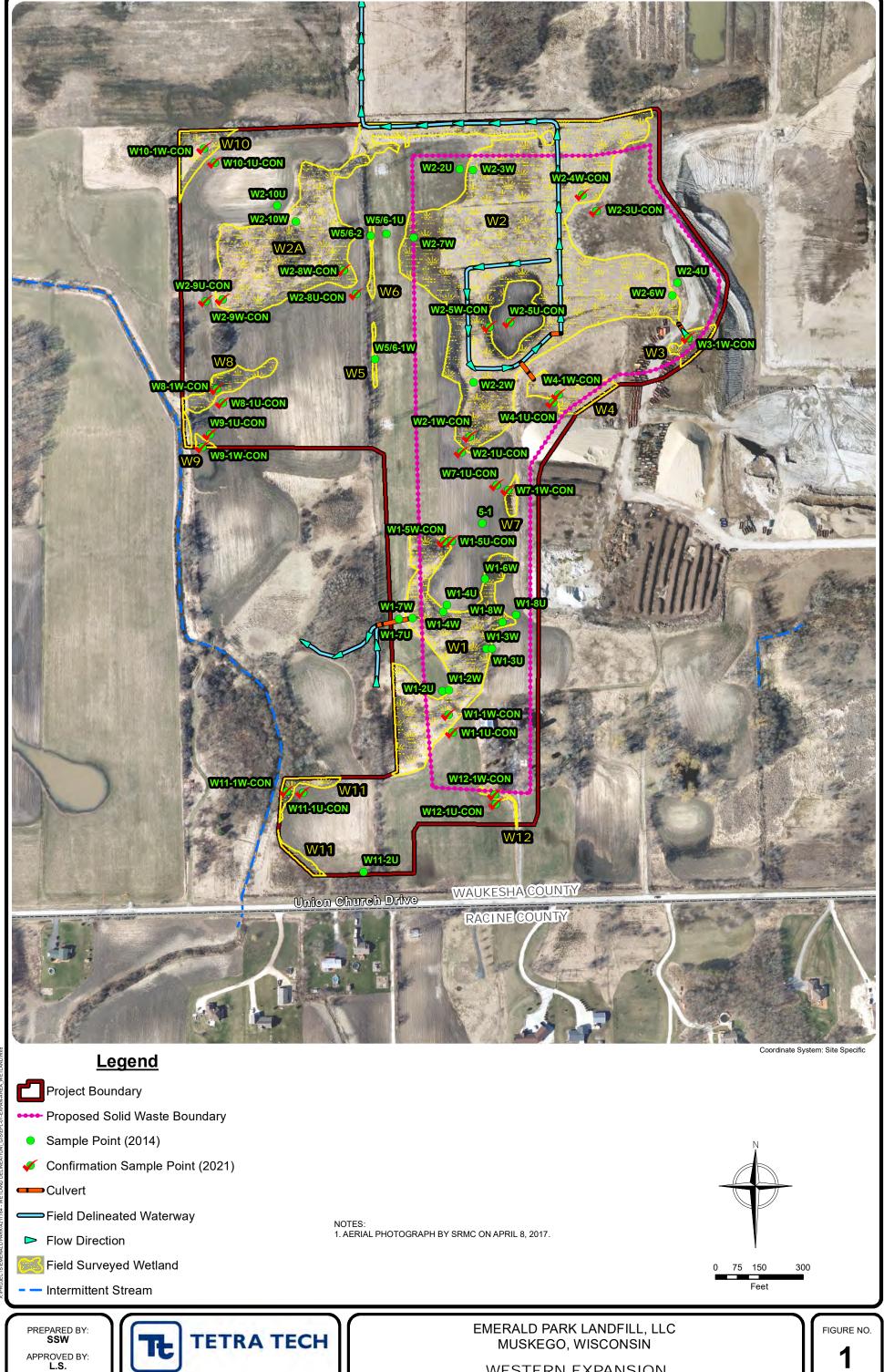
6.0 LIMITATIONS

The work product included in the attached was undertaken in full conformity with generally accepted professional consulting principles and practices and to the fullest extent as allowed by law we expressly disclaim all warranties, express or implied, including warranties of merchantability or fitness for a particular purpose. The work product was completed in full conformity with the contract with our client and this document is solely for the use and reliance of our client (unless previously agreed upon that a third party could rely on the work product) and any reliance on this work product by an unapproved outside party is at such party's risk.

The work product herein (including opinions, conclusions, suggestions, etc.) was prepared based on the situations and circumstances as found at the time, location, scope and goal of our performance and thus should be relied upon and used by our client recognizing these considerations and limitations. Tetra Tech shall not be liable for the consequences of any change in environmental standards, practices, or regulations following the completion of our work and there is no warrant to the veracity of information provided by third parties, or the partial utilization of this work product.

FIGURE 1

WETLAND DELINEATION MAP



DATE CREATED: 10/22/2021

PREPARED BY: TETRATECH

WESTERN EXPANSION WETLAND DELINEATION MAP PROJECT NO. 4211764

APPENDIX A

WETLAND DETERMINATION DATA FORMS

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: wi-1u-con
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E
Landform (hillside, terrace, etc.): None Loca	al relief (concave, convex, none): None Slope %: 2
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA
Soil Map Unit Name: Saylesville silt loam	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation X , Soil X , or Hydrology X significantly distr	urbed? Are "Normal Circumstances" present? Yes No X
Are Vegetation, Soil, or Hydrologynaturally probler	matic? (If needed, explain any answers in Remarks.)
	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No X Yes No X	Is the Sampled Area within a Wetland? Yes NoX
Wetland Hydrology Present? Yes No X Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID:
Hay field, recently cut	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odo	
Sediment Deposits (B2) Oxidized Rhizosphere:	
Drift Deposits (B3) Presence of Reduced	· /
Algal Mat or Crust (B4) Recent Iron Reduction This Music Surface (C5)	
Iron Deposits (B5) Thin Muck Surface (C7) Other (Cymlein in Bosses)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches	
Water Table Present? Yes No X Depth (inches	
Saturation Present? Yes No X Depth (inches	s): Wetland Hydrology Present? Yes No _X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	
Describe Necorded Data (Stream gauge, monitoring well, aerial priotos, p	nevious inspections), il avaliable.
Remarks:	
Nemans.	

$\label{eq:VEGETATION} \textbf{VEGETATION} - \textbf{Use scientific names of plants}.$

/EGETATION – Use scientific names of p	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
 1.				Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 0 (A)
3.				
1.				Total Number of Dominant Species Across All Strata: 3 (B)
5.				`` /
				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
				Prevalence Index worksheet:
·		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:	`	- Tulai Cuvei		OBL species 0 x 1 = 0
<u> </u>)			<u> </u>
l	- ——			FACW species 0 x 2 = 0
2	- ——			FAC species 0 x 3 = 0
3.	- ——			FACU species 70 x 4 = 280
l				UPL species30 x 5 =150
5.	_			Column Totals: 100 (A) 430 (B)
5				Prevalence Index = B/A = 4.30
7				Hydrophytic Vegetation Indicators:
· · · · · · · · · · · · · · · · · · ·		=Total Cover	_	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Elymus repens	40	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Bromus inermis	30	Yes	UPL	4 - Morphological Adaptations ¹ (Provide supportin
3. Poa pratensis	20	Yes	FACU	data in Remarks or on a separate sheet)
4. Trifolium pratense	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Taraxacum officinale	5	No	FACU	
6.		110	TAGG	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.	- ——			diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11	- ——			and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardles
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)			Woody vines – All woody vines greater than 3.28 ft in
1		·		height.
2.				
3.	·			Hydrophytic Vegetation
4.				Present? Yes No X
	•	=Total Cover		
Remarks: (Include photo numbers here or on a sep		10.0		
Reflidits. (Illolade prioto flambers here of on a sep	Male Silect.			

SOIL Sampling Point WI-1U-CON

		o the dep				ator or co	onfirm the absence of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur %	- 1	Loc ²	Texture Remarks
0-11	10YR 4/2	70	Color (Moist)	70	Type '	LUC	Silty, Roots
							<u> </u>
11-20	10YR 6/2		10YR 6/8	<u>3</u> 			Silty
						:	
						<u> </u>	
					<u></u>		
¹ Type: C=Cc	oncentration, D=Depl	etion RM:	=Reduced Matrix N	 IS=Mas	ked San	d Grains	² Location: PL=Pore Lining, M=Matrix.
Black His Hydrogei Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur	(A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) Below Dark Surface rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7)		Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed Depleted Matri: Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR) ace (S9) ands (S Mineral (Matrix (x (F3) urface (F Surface sions (F8 R K, L)	(LRR R 611) (LRR (F1) (LRI F2) (66) (F7)	, MLRA 1 R K, L) R K, L)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
Type:	-						Hindrin Cail Dreamt2 Von No V
Depth (in Remarks:							Hydric Soil Present? Yes No X
This data forr	m is revised from Noi 2015 Errata. (http://w						2.0 to include the NRCS Field Indicators of Hydric Soils, 12p2_051293.docx)

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: WI-IW-CON
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA
Soil Map Unit Name: Montgomery silty clay loam	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: WI
Remarks: (Explain alternative procedures here or in a separate report.) Wetland depression adjacent to hay field.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of the control of th	
Drift Deposits (B3) Presence of Reduced Inc	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
	: Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Tomano.	

VEGETATION – Use scientific names of plants.

Absolute	Dominant	Indicator	<u> </u>
% Cover	Species?	Status	Dominance Test worksheet:
			Number of Dominant Species
			That Are OBL, FACW, or FAC: 1 (A)
•			Total Number of Dominant
			Species Across All Strata: 1 (B)
· ·			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 100.0% (A/B)
			Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
	•		OBL species 0 $x 1 = 0$
			FACW species 100 x 2 = 200
			FAC species 0 x 3 = 0
			FACU species 5 x 4 = 20
			UPL species 0 x 5 = 0
			Column Totals: 105 (A) 220 (B)
			Prevalence Index = $B/A = 2.10$
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
100	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^{1}$
			4 - Morphological Adaptations ¹ (Provide supporting
_	· ——	TAGG	data in Remarks or on a separate sheet)
-			Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
·			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
105	T-t-l Cover		Herb – All herbaceous (non-woody) plants, regardless
105	= I otal Covel		of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft in
			height.
			Hydrophytic
			Vegetation
	=Total Cover		Present? Yes X No No
	100 5	=Total Cover =Total Cover =Total Cover No No	=Total Cover =Total Cover =Total Cover 100

SOIL Sampling Point WI-IW-CON

Profile Description: (Describe to	the de				tor or c	onfirm the absence of	indicators.)
Depth Matrix (inches) Color (moist)	%	Color (moist)	x Featur %	Type ¹	Loc ²	Texture	Remarks
		Color (moist)		Турс			
0-20 10YR 2/1	100					Mucky Loam/Clay	Silty, mucky, mineral, roots
							
¹ Type: C=Concentration, D=Deplet	tion RM	======================================	//S=Mas	ked San	d Grains	² I ocation: PI	
Hydric Soil Indicators:		Troduced Matrix, N	no mao	ntou ourn	a Oranio		r Problematic Hydric Soils ³ :
Histosol (A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		ck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)		MLRA 149B))			Coast Pra	airie Redox (A16) (LRR K, L, R)
Black Histic (A3)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA	149B) 5 cm Muc	cky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)		High Chroma S	Sands (S	611) (LRF	R K, L)	Polyvalue	e Below Surface (S8) (LRR K, L)
Stratified Layers (A5)		X Loamy Mucky I	Mineral	(F1) (LRI	R K, L)	Thin Dark	Surface (S9) (LRR K, L)
Depleted Below Dark Surface ((A11)	Loamy Gleyed	Matrix (F2)			ganese Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12)		Depleted Matrix					Floodplain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1)		Redox Dark Su					odic (TA6) (MLRA 144A, 145, 149B)
Sandy Gleyed Matrix (S4)		Depleted Dark					ent Material (F21)
Sandy Redox (S5)		Redox Depress		8)			llow Dark Surface (F22)
Stripped Matrix (S6) Dark Surface (S7)		Marl (F10) (LR	K N, L)			Other (Ex	plain in Remarks)
Dark Surface (S1)							
³ Indicators of hydrophytic vegetatio	n and w	etland hydrology mu	ust be pi	resent, ur	nless dis	turbed or problematic.	
Restrictive Layer (if observed):							
Туре:							
Depth (inches):						Hydric Soil Presen	t? Yes <u>X</u> No
Remarks:							 -
This data form is revised from North							S Field Indicators of Hydric Soils,
Version 7.0, 2015 Errata. (http://ww	/w.nrcs.	usda.gov/Internet/FS	SE_DOO	CUMENT	S/nrcs14	42p2_051293.docx)	

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/27/21
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: WI-5U-CON
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA
Soil Map Unit Name: Martinton silt loam	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _X_	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Disturbed soil/vegetation/hydrology due to farming. Soybean field.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of the control of th	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	:
Water Table Present? Yes No X Depth (inches):	:
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

	olants. Absolute	Dominant	Indicator	Sampling Point: WI-5U-CON
ree Stratum (Plot size:)	% Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
·		· <u>- </u>		Number of Dominant Species
		'		That Are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant
				Species Across All Strata: 1 (B)
				`` <i></i> ``
				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
				Prevalence Index worksheet:
•		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:	`	- Total Gove.		OBL species 0 x 1 = 0
	.)			
·	_			FACW species 0 x 2 = 0
				FAC species 0 x 3 = 0
i	_			FACU species 0 x 4 = 0
·	_			UPL species65 x 5 =325
i				Column Totals: 65 (A) 325 (B)
i	_			Prevalence Index = B/A = 5.00
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		1		2 - Dominance Test is >50%
. Glycine max	65	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
,	_			4 - Morphological Adaptations ¹ (Provide supportin
				data in Remarks or on a separate sheet)
·	_			Problematic Hydrophytic Vegetation ¹ (Explain)
i	_			¹ Indicators of hydric soil and wetland hydrology must
	_			be present, unless disturbed or problematic.
·	_			Definitions of Vegetation Strata:
i				Tree – Woody plants 3 in. (7.6 cm) or more in
	_			diameter at breast height (DBH), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1	_			and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardles:
	65	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size:)	!		Woody vines – All woody vines greater than 3.28 ft in
·	•'			height.
				Hydrophytic
				Vegetation Present? Yes No X
i.				Plesent: 165 NO A
·		=Total Cover		<u> </u>

SOIL Sampling Point WI-5U-CON

Profile Description: (Describe to the de				tor or co	onfirm the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Color (moist)	Features %	Type ¹	Loc ²	Texture Remarks
· · · · · · · · · · · · · · · · · · ·	Color (moist)	70	урс		-
0-22 10YR 3/2 100					Silty Loam
					·
					-
¹ Type: C=Concentration, D=Depletion, RM	/=Reduced Matrix, M	S=Maske	d Sand	Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	· · · · · · · · · · · · · · · · · · ·				Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below	v Surface	(S8) (L	.RR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Surfa	ce (S9) (I	LRR R,	MLRA 1	149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	High Chroma Sa	ands (S11	1) (LRR	K, L)	Polyvalue Below Surface (S8) (LRR K, L)
Stratified Layers (A5)	Loamy Mucky M	/lineral (F	1) (LR R	≀ K , L)	Thin Dark Surface (S9) (LRR K, L)
Depleted Below Dark Surface (A11)	Loamy Gleyed N	Иatrix (F2	<u>'</u>)		Iron-Manganese Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12)	Depleted Matrix	(F3)			Piedmont Floodplain Soils (F19) (MLRA 149B
Sandy Mucky Mineral (S1)	Redox Dark Sur	face (F6)	i		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Gleyed Matrix (S4)	Depleted Dark S	3urface (F	- 7)		Red Parent Material (F21)
Sandy Redox (S5)	Redox Depressi				Very Shallow Dark Surface (F22)
Stripped Matrix (S6)	Marl (F10) (LRR	₹ K, L)			Other (Explain in Remarks)
Dark Surface (S7)					
3					
³ Indicators of hydrophytic vegetation and w	retland hydrology mus	st be pres	ent, un	less disti	urbed or problematic.
Restrictive Layer (if observed):					
Type:					
Depth (inches):					Hydric Soil Present? Yes No X
Remarks:					
					2.0 to include the NRCS Field Indicators of Hydric Soils,
Version 7.0, 2015 Errata. (http://www.nrcs.	usda.gov/internet/FS	E_DOCO	MENTS	5/nrcs142	2p2_051293.docx)

Project/Site: Emerald Park Landfill Western E	xpansion	City/County: Waukes	ha	Sampling Date: 9/27/21			
Applicant/Owner: Emeral Park Landfill, LLC			State: WI	Sampling Point: WI-5W-CON			
Investigator(s): LS & SAL		Section, Tov	vnship, Range: S36 T5N				
Landform (hillside, terrace, etc.): Depression	Local re	elief (concave, conve		Slope %: 2			
Subregion (LRR or MLRA): LRR K	Lat: naturally problemat	•	-	Datum: NA			
Soil Map Unit Name: Martinton silt loam	Eat: naturally problemate		NWI classification:				
Are climatic / hydrologic conditions on the site ty	ypical for this time of year?	Yes X	No (If no, e	explain in Remarks.)			
Are Vegetation, Soil, or Hydrolo	ogy significantly disturb	ed? Are "Norm	al Circumstances" pres	ent? Yes X No			
Are Vegetation , Soil , or Hydrolo			, explain any answers ir				
SUMMARY OF FINDINGS – Attach s		·	-	•			
Hydric Soil Present?	/es X No	Is the Sampled Ar within a Wetland? If yes, optional Wet	Yes X	No			
Remarks: (Explain alternative procedures here Wetland depression adjacent ot soybean field.	,						
HYDROLOGY				_			
Wetland Hydrology Indicators:				minimum of two required)			
Primary Indicators (minimum of one is required		0)	Surface Soil Crack				
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Saturation (A3) Water Marks (B1)	Marl Deposits (B15) Hydrogen Sulfide Odor (C	`1 \	Crayfish Burrows (
Sediment Deposits (B2)	Oxidized Rhizospheres or	·		on Aerial Imagery (C9)			
Drift Deposits (B2)	Presence of Reduced Iron		Stunted or Stresse				
Algal Mat or Crust (B4)	Recent Iron Reduction in	` '		,			
Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Solis (CO)					
Inundation Visible on Aerial Imagery (B7)		c)	Shallow Aquitard (D3) Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)		5)	X FAC-Neutral Test (
	/	T	7 TAO NOGRALI TOST				
Field Observations: Surface Water Present? Yes	No. V. Donth (inches)						
	No X Depth (inches): Depth (inches):						
	No X Depth (inches):		d Hydrology Present?	Voc. V. No.			
(includes capillary fringe)	No X Deptil (iliches).	wetiani	a nyurology Present?	Yes <u>X</u> No			
Describe Recorded Data (stream gauge, monit	toring well, aerial photos, prev	vious inspections) if a	available [.]				
	g, a p, p	,,,,,,,,					
Remarks:							

$\label{eq:VEGETATION} \textbf{VEGETATION} - \textbf{Use scientific names of plants}.$

	Absolute	Dominant	Indicator	
<u>Free Stratum</u> (Plot size:)	% Cover	Species?	Indicator Status	Dominance Test worksheet:
. Quercus alba	5	Yes	FACU	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 2 (A)
3.				
				Total Number of Dominant Species Across All Strata: 3 (B)
· -				opedes Adioss All Ottata.
				Percent of Dominant Species
S				That Are OBL, FACW, or FAC: 66.7% (A/B)
.	-			Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
. Cornus stolonifera	10	Yes	FACW	FACW species 112 x 2 = 224
2. Salix interior	2	No	FACW	FAC species 0 x 3 = 0
3.				FACU species 5 x 4 = 20
··				UPL species 0 x 5 = 0
·				
				Column Totals: 117 (A) 244 (B)
S				Prevalence Index = B/A = 2.09
·				Hydrophytic Vegetation Indicators:
	12	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:)				X 2 - Dominance Test is >50%
. Phalaris arundinacea	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2.				4 - Morphological Adaptations ¹ (Provide supportin
3.				data in Remarks or on a separate sheet)
i.				Problematic Hydrophytic Vegetation ¹ (Explain)
j				¹ Indicators of hydric soil and wetland hydrology must
3.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
)				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
0.				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
2.				
	100	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
				height.
<u> </u>				
2.				Hydrophytic
2. 3.				Vegetation
2.		=Total Cover		

SOIL Sampling Point WI-5W-CON

		to the de				ator or c	onfirm the absence o	of indicators.)
Depth (inches)	Matrix	%	Color (moist)	Featur		Loc ²	Texture	Remarks
(inches) 0-10	Color (moist) 10YR 2/1	100	Color (Moist)	70	Type ¹	LOC	Mucky Loam/Clay	Silty loam, mucky, mineral, roots
10-20	10YR 2/2	100					Mucky Loani/Clay	Silty loam
10-20	1011 2/2	100						Silty loam
							<u> </u>	
							<u> </u>	
¹ Type: C=Co	oncentration. D=Depl	letion. RN	/=Reduced Matrix, M	IS=Mas	ked San	d Grains	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil			,					for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov	w Surfa	ce (S8) (LRR R,		uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		MLRA 149B)				Coast P	Prairie Redox (A16) (LRR K, L, R)
Black His	, ,		Thin Dark Surfa					ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					ue Below Surface (S8) (LRR K, L)
	l Layers (A5) I Below Dark Surface	(411)	X Loamy Mucky N			R K, L)		ark Surface (S9) (LRR K, L)
	i Below Dark Suriace irk Surface (A12)	e (A11)	Loamy Gleyed Depleted Matrix		(FZ)			nganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		- 6)			Spodic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark					rent Material (F21)
	edox (S5)		Redox Depress					nallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LRI	R K, L)			Other (E	Explain in Remarks)
Dark Sui	face (S7)							
31,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	E la , , al ma m la , ski a , , , a , a , a k a k	: :		-4		حالم ممالم		
	Layer (if observed):	ion and v	veuana nyarology mu	st be p	resent, u	niess dis	turbed or problematic.	•
Type:	Layer (II Observed).							
Depth (ir	nches).						Hydric Soil Prese	ent? Yes X No
Remarks:							.,,	
	m is revised from No	rthcentra	I and Northeast Regi	onal Su	pplemen	t Version	2.0 to include the NR	CS Field Indicators of Hydric Soils,
			.usda.gov/Internet/FS					,

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/27/21
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: w2-1U-CON
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E
Landform (hillside, terrace, etc.): Hillside Local	I relief (concave, convex, none): Convex Slope %: 4
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA
Soil Map Unit Name: Montgomery silty clay loam	NWI classification: F0Kf
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly distu	rbed? Are "Normal Circumstances" present? Yes No X
Are Vegetation, Soil, or Hydrologynaturally problem	
	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Hydric Soil Present? Wetland Hydrology Present? Yes No X No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Soybean filed, disturbed vegetation/soil/hydrology. FSA slide review indicates the second s	ates this point is on the upland side of the nearby wetland boundary.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves ((B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced II	
Algal Mat or Crust (B4) Recent Iron Reduction i	
Iron Deposits (B5)Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches) Water Table Present? Yes No X Depth (inches) Saturation Present? Yes No X Depth (inches)	
Water Table Present? Yes No X Depth (inches)	
	: Wetland Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	
Nemarks.	

$\label{eq:VEGETATION} \textbf{VEGETATION} - \textbf{Use scientific names of plants}.$

Dominance Test worksheet:	/EGETATION – Use scientific names of p	Absolute	Dominant	Indicator	Sampling Point: W2-1U-CON
Number of Dominant Species 1	Tree Stratum (Plot size:)				Dominance Test worksheet:
That Are OBL, FACW, or FAC: 0 (A Total Number of Dominant Species Across All Strata: 1 (B Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A Prevalence Index worksheat: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 0 x2 = 0 FACW species 0 x3 = 0 FACW species 0 x4 = 0 UPL species 0 x4 = 0 UPL species 65 x5 = 325 Column Totals: 65 (A) 325 Prevalence Index set Shall = 5.00 The Action of the Stratum (Plot size: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation (Plot size: 5') Given max 65 Yes UPL 3 - Prevalence Index is 3.0 1 4 - Morphological Adaptations' (Provide support data in Remarks or on a separate sheet) Problematic Provides and well and hydrology must be present, unless distance or problematic. Definitions of Vegetation Strata: Tree —Woody plants as than 1 in DB- and greater than or equal to 3.28 ft (1 m) tall. Woody Vines Stratum (Plot size:) 1. Woody vines — All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Present? Yes No X				_	Number of Deminant Chasins
Total Number of Dominant Species Across All Strata: 1 (B Species Across All All Species Across All Strata: 1 (B Species Across	2.	-			
Species Across AI Strata: 1 (B Percent of Dominant Species Strata Species Across AI Strata: 1 (B Percent of Dominant Species Strata Species Strata Strata: 1 (B Strata Str					
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A					
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A	· ·				``
Prevalence Index worksheet: Total % Cover of: Multiply by:	-				
Sapling/Shrub Stratum (Plot size:)					· · ·
OBL species 0	·				
FACW species			=Total Cover		
FAC species 0 x3 = 0 FACU species 0 x4 = 0 UPL species 65 x5 = 325 Column Totals: 65 (A) 325 - Prevalence Index = B/A = 5.00 FACU species 65 x5 = 325 Column Totals: 65 (A) 325 - Prevalence Index = B/A = 5.00 FACU species 65 x5 = 325 Column Totals: 65 (A) 325 - Prevalence Index = B/A = 5.00 FACU species 65 x5 = 325 Column Totals: 65 (A) 325 - Prevalence Index = B/A = 5.00 FACU species 65 x5 = 325 Column Totals: 65 (A) 325 - Prevalence Index = B/A = 5.00 FACU species 65 x5 = 325 Column Totals: 65 (A) 325 - Prevalence Index = B/A = 5.00 FACU species 65 x5 = 325 Column Totals: 65 (A) 325 - Prevalence Index = B/A = 5.00 FACU species 65 x5 = 325 FACU species 65 x5 = 325 Column Totals: 65 (A) 325 - Prevalence Index = B/A = 5.00 FACU species 0 x4 = 0 UPL 3 - Repair Species 65 x5 = 325 FACU sp)			<u> </u>
FACU species	l		,		
UPL species 65 x 5 = 325 Column Totals: 65 (A) 325 Prevalence Index = B/A = 5.00 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 4 - Morphological Adaptations (Provide suppor data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (I (Explain)) 1 - Horphological Adaptations (Provide suppor data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (I (Explain)) 1 - Horphological Adaptations (Provide suppor data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (I (Explain)) 1 - Horphological Adaptations (Provide suppor data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (I (Explain)) 1 - Horphological Adaptations (I (Explain)) 2 - Dominance Test is >50% 4 - Morphological Adaptations (I (Explain)) 1 - Horphological Adaptations (I (Explain)) 2 - Dominance Test is >50% 4 - Morphological Adaptations (I (Explain)) 1 - Horphological Adaptations (I (Explain)) 2 - Dominance Test is >50% 4 - Morphological Adaptations (I (Explain)) 1 - Horphological Adaptations (I (Explain)) 2 - Horphological Adaptations (I (Explain)) 3 - Prevalence Index is \$3.0¹ 4 - Morphological Adaptations (I (Explain)) 1 - Horphological Adaptations (I (Explain)) 2 - Horphological Adaptations (I (Explain)) 3 - Horphological Adaptations (I (Explain)) 4 - Morphological Adaptations (I (Explain)) 4 - Morphological Adap	<u> </u>				
Column Totals: 65	3.				FACU species 0 x 4 = 0
Prevalence Index = B/A = 5.00 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0° 4 - Morphological Adaptations (Provide support data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) Problematic Hydrophytic Vegetation Problematic Hydrophytic Vegetation Problematic Hydrophytic Vegetation Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height (DBH), regardless of height (DBH), regardless of height (DBH), regardless of size, and woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Woody Vine Stratum (Plot size:) Moody Vines - All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Woody vines - All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Present? Yes No X	ł				UPL species 65 x 5 = 325
Prevalence Index = B/A = 5.00	5				Column Totals: 65 (A) 325 (B)
Hydrophytic Vegetation Indicators:					Prevalence Index = B/A = 5.00
=Total Cover 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft height. Woody Vine Stratum (Plot size:) Moody Vine Stratum (Plot size:) Hydrophytic Vegetation Vegetation Present? Yes	7				Hydrophytic Vegetation Indicators:
Lerb Stratum (Plot size: 5') 65 Yes UPL 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless ft tall. Woody vines - All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Present? Yes No X X X X X X X X X	-				
1. Glycine max 65 Yes UPL 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 1. Woody vines – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Present? Yes No X	Herb Stratum (Plot size: 5')				1
4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size:) Woody vines – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Present? Yes No _X		65	Yes	UPI_	1
data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless, and woody plants less than 3.28 ft tall. Woody Vines – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Present? Yes No X)				
Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardled of size, and woody plants less than 3.28 ft tall. Woody Vines – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Present? Yes No X					
5	· -				
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heig sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Present? Yes No X					
Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size:) 1.	· -				¹ Indicators of hydric soil and wetland hydrology must
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size:) 1.					
176e - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height (DBH), regar	-				Definitions of Vegetation Strata:
Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardly of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size:) 1.					
Saping/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size:)	9				diameter at breast height (DBH), regardless of height.
and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardly of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size:) Woody vines – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation Present? Yes No _X	10				Sapling/shrub – Woody plants less than 3 in. DBH
Moody Vine Stratum (Plot size:) 65	11				
Moody Vine Stratum (Plot size:)	12				Herh – All herbaceous (non-woody) plants, regardless
1		65	=Total Cover		
1. height. 2. Hydrophytic Vegetation Present? Yes No X =Total Cover	Woody Vine Stratum (Plot size:)			Woody vines — All woody vines greater than 3.28 ft in
2.	1.				, ,
3 Hydrophytic Vegetation Present? Yes No _X	•				
4	2				
=Total Cover		-			
			-Total Cover		11000111
Remarks: (Include photo numbers here or on a separate sheet.)					
	Remarks: (Include photo numbers here or on a sep	parate sheet.)			

SOIL Sampling Point W2-1U-CON

Profile Desc Depth	ription: (Describe t	to the de		ument t x Featur		ator or co	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
			Color (molet)		1900			
0-20	10YR 2/1	100					Loamy/Clayey	Silty Loam
			-					
¹ Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked San	d Grains.	² Location: PL:	=Pore Lining, M=Matrix.
Hydric Soil I							Indicators for	Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (l	LRR R,	2 cm Mucl	k (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		MLRA 149B)			Coast Pra	irie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surf	ace (S9) (LRR R	, MLRA 1		ky Peat or Peat (S3) (LRR K, L, R)
Hydrogei	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky					Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			•		ganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	,	Depleted Matri		` '			Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su		- 6)			odic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark					nt Material (F21)
	edox (S5)		Redox Depress					low Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	-	,			plain in Remarks)
	face (S7)			,				,
	, ,							
3Indicators of	hydrophytic vegetat	ion and w	etland hydrology mi	ust be p	resent, ui	nless dist	urbed or problematic.	
	ayer (if observed):						·	
Type:	-							
Depth (in	iches).						Hydric Soil Present	? Yes No X
							Tryuno com i recent	165 <u> </u>
Remarks:	i- u-vi d fu Ni		and Nambaast Dan	:I C.		4 \ / :	O O to implicate the NDO	C Field Indicates of Hudric Calls
	m is revised from No 2015 Errata. (http://w							S Field Indicators of Hydric Soils,
version 7.0, 2	2013 Ellata. (IIttp://w	ww.iiics.	usua.gov/internet/1-	3L_DO	COMENT	3/11/05 14/	2p2_031293.docx)	

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/27/21
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: w2-1w-con
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA
Soil Map Unit Name: Ogden muck	NWI classification: F0Kf
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: W2
Remarks: (Explain alternative procedures here or in a separate report.) Wetland depression adjacent to soybean field.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) X Water-Stained Leaves (E	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) X Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
	Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Recorded Data (stream gauge, monitoring well, aerial priotos, pre	vious inspections), ii avaliable.
Remarks:	
Tromano.	

$\label{eq:VEGETATION} \textbf{VEGETATION} - \textbf{Use scientific names of plants}.$

VEGETATION – Use scientific names of p	Absolute	Dominant	Indicator	Sampling Point: W2-1W-CON
<u>Tree Stratum</u> (Plot size:	% Cover	Species?	Status	Dominance Test worksheet:
1.				L
3				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
4				Total Number of Dominant
4				Species Across All Strata: 2 (B)
5	_			Percent of Dominant Species
6	_			That Are OBL, FACW, or FAC: 100.0% (A/B)
7	_			Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')			OBL species 0 x 1 = 0
1. Salix bebbiana	45	Yes	FACW	FACW species 160 x 2 = 320
2. Salix interior	10	No	FACW	FAC species 10 x 3 = 30
3. Populus deltoides	10	No	FAC	FACU species 0 x 4 = 0
	10	110	TAC	
4				UPL species 0 x 5 = 0
5	_			Column Totals: 170 (A) 350 (B)
6				Prevalence Index = B/A = 2.06
7	_			Hydrophytic Vegetation Indicators:
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Phalaris arundinacea	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
Aster lanceolatus	5	No	FACW	4 - Morphological Adaptations ¹ (Provide supportin
2		110	TACV	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
<u> </u>				1,7
· -				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7	_			Definitions of Vegetation Strata:
8	_			Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10	_			Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
 12.				
	105	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:	100	10141 00101		
	./			Woody vines – All woody vines greater than 3.28 ft in
1				height.
2	_			Hydrophytic
3	_			Vegetation
4	_			Present? Yes X No No
		=Total Cover		
Remarks: (Include photo numbers here or on a se	parate sheet.)			-
, ,	. ,			

SOIL Sampling Point W2-1W-CON

		the de	-			tor or c	confirm the absence of indicators.)
Depth (inches)	Matrix	%		x Featur	- 1	Loc ²	Texture Remarks
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type'	LOC	
0-12	10YR 2/1	100					Mucky Loam/Clay Silty, mucky
12-20	10YR 2/1	85	7.5YR 5/8	15		PL	Silty
1Type: C=Ce	ncentration, D=Deple	tion DI	4-Paduaad Matrix N		kad San	Croine	s. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I		uon, Ki	vi-Reduced Matrix, N	/IO-IVIAS	keu Sand	Giailis	Indicators for Problematic Hydric Soils ³ :
Histosol (Polyvalue Belo	w Surfac	ce (S8) (I	RR R	-
	pedon (A2)		MLRA 149B		30 (00) (Coast Prairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa	•	(LRR R	MLRA	
	Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)
	Layers (A5)		X Loamy Mucky	-			Thin Dark Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			· · · · · · · ·	Iron-Manganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	(/\(\)	Depleted Matri		<i>''</i>		Piedmont Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su		6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark	-	-		
							Red Parent Material (F21)
	edox (S5)		Redox Depress	-	P)		Very Shallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	K N, L)			Other (Explain in Remarks)
Dark Surf	race (S7)						
³ Indicators of	hydrophytic vegetation	on and v	wetland hydrology mเ	ust be pr	esent, ur	nless dis	sturbed or problematic.
	ayer (if observed):						
Type:	-						
Depth (in	ches):						Hydric Soil Present? Yes X No
							on 2.0 to include the NRCS Field Indicators of Hydric Soils,
version 7.0, 2	2015 Errata. (http://wv	ww.nrcs	.usua.gov/internet/F3	ב_טטנ	OWENT	S/111CS 14	142pz_051295.docx)

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/27/21
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: w2-3U-CON
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E
Landform (hillside, terrace, etc.): Hillside Local	I relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR K Lat: naturally problem	· · · · · · · · · · · · · · · · · · ·
Soil Map Unit Name: Ashkum silty clay loam	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	rbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Hillslope adjacent to wetland depression.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves ((B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced Ir	<u> </u>
Algal Mat or Crust (B4) Recent Iron Reduction i	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches)):
Water Table Present? Yes No X Depth (inches)):
Surface Water Present? Yes No X Depth (inches) Water Table Present? Yes No X Depth (inches) Saturation Present? Yes No X Depth (inches)): Wetland Hydrology Present? Yes No _X_
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	revious inspections), if available:
Remarks:	
Remarks.	

VEGETATION – Use scientific names of plants.

Absolute	Dominant	Indicator	
% Cover	Species?	Status	Dominance Test worksheet:
			Number of Dominant Species
			That Are OBL, FACW, or FAC: 0 (A)
			Total Number of Dominant
			Species Across All Strata: 2 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
			Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
)			OBL species 0 x 1 = 0
_ /			FACW species 0 x 2 = 0
			FAC species 0 x 3 = 0
			FACU species 100 x 4 = 400
	. ——		· — — —
_			Column Totals: 100 (A) 400 (B)
			Prevalence Index = B/A = 4.00
	- · · · · · · · · · · · · · · · · · · ·		Hydrophytic Vegetation Indicators:
	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
35	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
30	Yes	FACU	4 - Morphological Adaptations (Provide supportin
15	No	FACU	data in Remarks or on a separate sheet)
15	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
_			be present, unless disturbed or problematic.
_			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
	<u> </u>		diameter at breast height (DBH), regardless of height.
<u> </u>			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
_			
100	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
)	1		
./			Woody vines – All woody vines greater than 3.28 ft in height.
			110.g
			Hydrophytic
			Vegetation Present? Yes No X
			F1636III. 163 110 /
	=Total Cover		
	35 30 15 15	=Total Cover =Total Cover =Total Cover =Total Cover 35	=Total Cover =Total Cover =Total Cover =Total Cover =A S Yes FACU 30 Yes FACU 15 No FACU 15 No FACU 5 No FACU 5 No FACU

SOIL Sampling Point W2-3U-CON

Profile Desci	ription: (Describe to Matrix	the de		<mark>ument tl</mark> x Featur		ator or co	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 3/2	100			<u> </u>		Loamy/Clayey	Silty Loam
12-20	10YR 5/2	90	10YR 6/8	10	С	M	Loamy/Clayey	Silty Loam
12-20	10111 3/2		10111 0/0		<u> </u>	101	Loamy/Olayey	Only Loan
								-
								_
	ncentration, D=Deple	tion, RI	M=Reduced Matrix, N	์ ИS=Mas	ked San	d Grains.		=Pore Lining, M=Matrix.
Hydric Soil I								r Problematic Hydric Soils ³ :
Histosol (· ·		Polyvalue Belo		ce (S8) (LRR R,		k (A10) (LRR K, L, MLRA 149B)
Black His	pedon (A2)		MLRA 149B Thin Dark Surf	,	(I DD D	MIDA 1		hirie Redox (A16) (LRR K, L, R) ky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky					Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			, ,		ganese Masses (F12) (LRR K, L, R)
Thick Dar	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy Mu	ucky Mineral (S1)		Redox Dark Su	urface (F	6)		Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark					nt Material (F21)
	edox (S5)		Redox Depres	-	8)			low Dark Surface (F22)
Stripped Dark Surf	Matrix (S6)		Marl (F10) (LR	(R K, L)			Other (Ex	plain in Remarks)
Dark Suri	lace (S7)							
³ Indicators of	hydrophytic vegetation	on and v	wetland hydrology m	ust be pi	resent, u	nless dist	urbed or problematic.	
	ayer (if observed):		, 0,		<u> </u>		·	
Type:	-							
Depth (in	ches):						Hydric Soil Present	t? Yes <u>X</u> No
Remarks:								
								S Field Indicators of Hydric Soils,
Version 7.0, 2	2015 Errata. (http://wv	ww.nrcs	.usda.gov/Internet/F	SE_DO	CUMENT	S/nrcs14	2p2_051293.docx)	

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/27/21				
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: w2-4W-CON				
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E				
• ()	relief (concave, convex, none): Concave Slope %: 2				
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA				
Soil Map Unit Name: Ogden muck	NWI classification: E2Ka				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly disturb	rbed? Are "Normal Circumstances" present? Yes X No				
Are Vegetation , Soil , or Hydrology naturally problem					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID: W2				
Remarks: (Explain alternative procedures here or in a separate report.) Cattail depression adjacent to landfill access road.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (Surface Soil Cracks (B6) (B9) Drainage Patterns (B10)				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Water Marks (B1) Hydrogen Sulfide Odor					
Sediment Deposits (B2) Sediment Deposits (B2) Oxidized Rhizospheres					
Drift Deposits (B3) Presence of Reduced In					
Algal Mat or Crust (B4) Recent Iron Reduction i	· · ·				
Iron Deposits (B5) Thin Muck Surface (C7)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema					
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)				
Field Observations:	<u></u>				
Surface Water Present? Yes No X Depth (inches)	c .				
Water Table Present? Yes No X Depth (inches)					
Saturation Present? Yes No X Depth (inches)					
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:				
Remarks:					

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata: 2 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 20 x 1 = 20
1.				FACW species 80 x 2 = 160
2.				FAC species 0 x 3 = 0
3				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
<u> </u>				Column Totals: 100 (A) 180 (B)
6				Prevalence Index = B/A = 1.80
<i>l</i>		<u> </u>		Hydrophytic Vegetation Indicators:
Hart Otation (District		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Phalaris arundinacea	70	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Typha angustifolia	20	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3. Aster lanceolatus	10	No	FACW	
4				——Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	100	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: -)	100	rotal covol		
				Woody vines – All woody vines greater than 3.28 ft in height.
				neight.
2.				Hydrophytic
3.				Vegetation
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Sampling Point: W2-4W-CON

SOIL Sampling Point W2-4W-CON

Profile Desc	ription: (Describe t Matrix	to the de	•	ument t x Featur		ator or c	onfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
			(.,,,,,			
0-20	10YR 2/1	100					Mucky Loam/Clay	Silty, mucky
								_
								-
1 _{Tyme} , C=Ce		etien DA	4-Doduced Metrix N			d Crains	² l costion: DI	-Dere Lining M-Metrix
Hydric Soil I	ncentration, D=Depl	etion, Ki	i=Reduced Matrix, N	/IS=IVIAS	sked San	d Grains		_=Pore Lining, M=Matrix. r Problematic Hydric Soils ³ :
Histosol (Polyvalue Belo	w Surfa	re (S8) (IRRR		ck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		(00)	LIXIX IX,		airie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa	,) (LRR R	. MLRA		cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
	Layers (A5)		X Loamy Mucky					Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix ((F2)		Iron-Man	ganese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont	t Floodplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)		Redox Dark Su	ırface (F	- 6)		Mesic Sp	odic (TA6) (MLRA 144A, 145, 149B)
Sandy Gl	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)			ent Material (F21)
	edox (S5)		Redox Depress	-	8)			llow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Ex	cplain in Remarks)
Dark Sur	face (S7)							
³ Indicators of	hydrophytic vegetat	ion and w	etland hydrology mi	iet ha n	resent III	nlace die	turbed or problematic.	
	ayer (if observed):		retiand hydrology mit	ust be p	resent, u	iliess dis	Turbed or problematic.	
Type:	ayer (ii observed).							
Depth (in	ohoo):						Hydric Soil Presen	t2 Vos V No
							Hydric 3011 Fresen	t? Yes X No
Remarks:	m is revised from No.	rthcontra	and Northoast Pagi	ional Su	ınnlaman	t Varsian	2 0 to include the NPC	S Field Indicators of Hydric Soils,
	2015 Errata. (http://w							of red fridicators of riganic dolls,
	()		3	_			1 = 11 /	

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/27/21					
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: w2-5U-CON					
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E					
• ()	ocal relief (concave, convex, none): Convex Slope %: 2					
Subregion (LRR or MLRA): LRR K Lat: naturally prob	·					
Soil Map Unit Name: Ogden Muck	NWI classification: F0Kf					
Are climatic / hydrologic conditions on the site typical for this time of year						
Are Vegetation X, Soil X, or Hydrology X significantly d	<u> </u>					
Are Vegetation, Soil, or Hydrology naturally prob	olematic? (If needed, explain any answers in Remarks.)					
	sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No X	Is the Sampled Area within a Wetland? Yes No _X_ If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report	•					
Disturbed soil/vegetation/hydrology due to agricultural use, soybean fi	eid, FSA slides snow non-wetland signature at this location.					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leav	ves (B9) Drainage Patterns (B10)					
High Water Table (A2) Aquatic Fauna (B13	Moss Trim Lines (B16)					
Saturation (A3)Marl Deposits (B15	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide C	gen Sulfide Odor (C1) Crayfish Burrows (C8)					
Sediment Deposits (B2) Oxidized Rhizosphe	eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduc	ed Iron (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)Recent Iron Reduct	ion in Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5) Thin Muck Surface	(C7) Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	emarks) Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No X Depth (incl	nes):					
Water Table Present? Yes No X Depth (incl	nes):					
Saturation Present? Yes No X Depth (incl	hes): Wetland Hydrology Present? Yes No _X					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available:					
Remarks:						

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.		·		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.		·		Total Number of Dominant Species Across All Strata: 1 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7		_		Prevalence Index worksheet:
· ·		=Total Cover	_	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)		•		OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 0 x 3 = 0
3.				FACU species 5 x 4 = 20
4.	1			UPL species 75 x 5 = 375
5.	(Column Totals: 80 (A) 395 (B)
6				Prevalence Index = B/A = 4.94
-		. ——		Hydrophytic Vegetation Indicators:
<i>1.</i>		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Hard Chrotima (Distoire) FI		= 10lai Covei		I
Herb Stratum (Plot size: 5')	25			2 - Dominance Test is >50%
1. Glycine max	65	Yes	UPL	3 - Prevalence Index is ≤3.0¹
2. Daucus carota	10	<u>No</u>	<u>UPL</u>	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3. Cirsium arvense	5	No	FACU	
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.		·		diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.	(
12.	80	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)		, -10161 00101		
				Woody vines – All woody vines greater than 3.28 ft in height.
				neigh.
2.				Hydrophytic
3.		. ——		Vegetation No. V
4.				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Sampling Point: W2-5U-CON

SOIL Sampling Point W2-5U-CON

		to the de				ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Featur %	es Type ¹	Loc ²	Texture	Remarks		
0-6	10YR 3/1	100	Color (Illoist)	70	Туре	Loc	Loamy/Clayey	Silty Loam, rocky/gravelly		
6-20	10YR 5/1	70	10YR 5/6	30	С	M		Silty Clay, Prominent redox concentrations		
	101110/1		10111070					only oray, i reminent rodox concentrations		
1							2			
	ncentration, D=Depl	etion, RM	I=Reduced Matrix, N	1S=Mas	ked San	d Grains.		PL=Pore Lining, M=Matrix.		
Hydric Soil I Histosol			Polyvalue Belo	w Surfa	ce (S8) (I RR R		for Problematic Hydric Soils ³ : Muck (A10) (LRR K, L, MLRA 149B)		
	ipedon (A2)		MLRA 149B		00 (00) (LIKIK IK,		Coast Prairie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Surfa		(LRR R	, MLRA 1		flucky Peat or Peat (S3) (LRR K, L, R)		
Hydroge	n Sulfide (A4)		High Chroma S					lue Below Surface (S8) (LRR K, L)		
	Layers (A5)		Loamy Mucky I	Mineral	(F1) (LR	R K, L)	Thin Da	ark Surface (S9) (LRR K, L)		
	Below Dark Surface	e (A11)	Loamy Gleyed		F2)			anganese Masses (F12) (LRR K, L, R)		
	rk Surface (A12)		Depleted Matrix		-0)			ont Floodplain Soils (F19) (MLRA 149B)		
	ucky Mineral (S1) leyed Matrix (S4)		Redox Dark Su Depleted Dark		-			Spodic (TA6) (MLRA 144A, 145, 149B) arent Material (F21)		
	edox (S5)		Redox Depress					hallow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) (LR	,	<i>-</i> ,			Explain in Remarks)		
	face (S7)			, ,			`	,		
³ Indicators of	hydronhytic vegetat	ion and w	etland hydrology mu	ist he ni	resent III	nless dist	turbed or problematio	,		
	ayer (if observed):	ion and n	ouding riyarology me	iot bo pi	occini, di	nicoc dici	larboa or problematio	•		
Type:	-									
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No		
Remarks:										
								RCS Field Indicators of Hydric Soils,		
version 7.0, 2	2015 Errata. (http://w	/ww.nrcs.	usda.gov/internet/F8	PE_DO	JUMENI	S/nrcs14	2p2_051293.docx)			

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/27/21						
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: w2-5W-CON						
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E						
Landform (hillside, terrace, etc.): Hillslope Local re	relief (concave, convex, none): Concave Slope %: 3						
Subregion (LRR or MLRA): LRR K Lat: naturally problemate	· · · · · · · · · · · · · · · · · · ·						
Soil Map Unit Name: Ogden muck	NWI classification: F0Kf						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
Are Vegetation X , Soil X , or Hydrology X significantly disturb							
Are Vegetation, Soil, or Hydrologynaturally problemate	tic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing samp	pling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present? Yes X No	within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.) Farmed agricultural field edge, distrubed soil/vegetation/hyrdology.							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves (B							
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odor (C							
Sediment Deposits (B2) Oxidized Rhizospheres o							
Drift Deposits (B3) Presence of Reduced Iro	· /						
	ron Reduction in Tilled Soils (C6) X Geomorphic Position (D2)						
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):							
Water Table Present? Yes No X Depth (inches):							
<u> </u>	Wetland Hydrology Present? Yes X No						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:						
Remarks:							
Remarks.							

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 1 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1.				FACW species 10 x 2 = 20
2				FAC species 5 x 3 = 15
3.				FACU species 0 x 4 = 0
4.				UPL species 60 x 5 = 300
				· — —
				```
6				Prevalence Index = B/A = 4.47
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Glycine max	60	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2. Cyperus esculentus	10	No	FACW	4 - Morphological Adaptations (Provide supporting
3. Ambrosia trifida	5	No	FAC	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				1
6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u> </u>				
· · ·				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	75	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic
4.				Vegetation   Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ata abaat \	- Total Gover		
Stressed soybeans, stunted growth.	ale sileel.)			
<b>,</b> , , ,				

Sampling Point: W2-5W-CON

SOIL Sampling Point W2-5W-CON

		o the de				ator or c	onfirm the absence	of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Featur %	es Type ¹	Loc ²	Texture	Remarks	
0-14	10YR 2/1	100	Color (moist)	70	Туре		Texture	Silty, roots	
14-20	10YR 4/2	85	10YR 2/1	20	С	M	Loamy/Clayey	Clay, roots, faint redox concentrations	
			10YR 4/6	15	С				
								-	
	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	1S=Mas	ked San	d Grains.		PL=Pore Lining, M=Matrix.	
Hydric Soil I			5 5.	0 (	(00) (			for Problematic Hydric Soils ³ :	
Histosol (			Polyvalue Below MLRA 149B)		ce (S8) (I	LRR R,		Muck (A10) (LRR K, L, MLRA 149B)	
Black His	ipedon (A2) stic (A3)		Thin Dark Surfa		(I RR R	MI RA		Prairie Redox (A16) ( <b>LRR K, L, R</b> ) lucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
	n Sulfide (A4)		High Chroma S		-			lue Below Surface (S8) (LRR K, L)	
	Layers (A5)		Loamy Mucky N	-				ark Surface (S9) ( <b>LRR K, L</b> )	
X Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	rk Surface (A12)		Depleted Matrix					ont Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
	ucky Mineral (S1)		Redox Dark Su					Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
	leyed Matrix (S4)		Depleted Dark					arent Material (F21)	
	edox (S5) Matrix (S6)		Redox Depress Marl (F10) (LRI	,	0)			hallow Dark Surface (F22) Explain in Remarks)	
	face (S7)		Wan (i 10) (ER	ι <b>τ ιτ, ∟</b> )				Explain in remains)	
	,								
		on and w	etland hydrology mι	ıst be pr	resent, ui	nless dist	urbed or problematio	).	
Restrictive L Type:	ayer (if observed):								
-	-						Uhadria Cail Brea	ant2 Yas Y Na	
Depth (in	icnes):						Hydric Soil Pres	ent? Yes <u>X</u> No	
Remarks:	m is revised from No	rthcentral	and Northeast Regi	onal Su	nnlaman	t Version	2.0 to include the NE	RCS Field Indicators of Hydric Soils,	
	2015 Errata. (http://w							too ricia malcators or riyano dons,	
	` '		· ·	_			, _ ,		

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21						
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: w2-8U-CON						
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E						
Landform (hillside, terrace, etc.): None Local	al relief (concave, convex, none): None Slope %: 2						
Subregion (LRR or MLRA): LRR K Lat: naturally probler	· · · · · · · · · · · · · · · · · · ·						
Soil Map Unit Name: Montgomery silt loam	NWI classification: NA						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrologysignificantly distr							
Are Vegetation, Soil, or Hydrologynaturally probler	matic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area						
Hydric Soil Present? Yes X No	within a Wetland? Yes No _X_						
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)  Disturbed soils/vegetation/hydrology. Soybean field - recently cut.							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves	(B9) Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1)Hydrogen Sulfide Odo							
<del></del>	zed Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced	<u> </u>						
	ent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)						
Iron Deposits (B5)Thin Muck Surface (C7							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	· · · · · · · · · · · · · · · · ·						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present?         Yes         No         X         Depth (inches           Water Table Present?         Yes         No         X         Depth (inches           Saturation Present?         Yes         No         X         Depth (inches							
Water Table Present? Yes No X Depth (inches							
	s): Wetland Hydrology Present? Yes No _X						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:						
Remarks:							
Tomaro.							

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: )	% Cover	Species?	Status	Dominance Test worksheet:
 1.				Number of Daminant Coasias
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
		· · · · · · · · · · · · · · · · · · ·		
1.				Total Number of Dominant
··				Species Across All Strata: 2 (B)
5				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)			OBL species0 x 1 =0
1. Rhamnus cathartica	10	Yes	FAC	FACW species 0 x 2 = 0
2.				FAC species 10 x 3 = 30
		· · · · · · · · · · · · · · · · · · ·		FACU species 0 x 4 = 0
1.				
····				' <del> </del>
5				Column Totals: 15 (A) 55 (B)
6				Prevalence Index = B/A = 3.67
7				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5' )				2 - Dominance Test is >50%
1. Glycine max	5	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2				4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
· -				
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7	_			Definitions of Vegetation Strata:
3				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				and greater than or equal to 0.20 ft (1 fil) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	5	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:	_)			Woody vines – All woody vines greater than 3.28 ft in
1				height.
2	_			1
3				Hydrophytic Vegetation
4.	<b>-</b>			Present? Yes No X
		=Total Cover		
Describer (Include photo numbers here or on a co		10101.00.00		.1
Remarks: (Include photo numbers here or on a se Recently cut soybeans - stubble.	parate sileet.			
Tooling out obysourie Stassie.				

SOIL Sampling Point W2-8U-CON

	ription: (Describe t	o the der				ator or c	onfirm the absence	of indicate	ors.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Feature %	- 1	Loc ²	Texture		Remarks	
(inches)			Color (moist)	70	Type'	LOC				
0-10	10YR 2/1	100					Loamy/Clayey		Silty Clay, ro	oots
10-20	10YR 5/1	85	10YR 6/8	15		M	Loamy/Clayey	Clay, pro	ominent redox	concentrations
		·			<u> </u>	<u> </u>				
				<del></del>						
¹ Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	1S=Mas	ked San	d Grains.	² Location:	PL=Pore L	ining, M=Matri	x.
Histosol Histic Ep Black His Hydroger Stratified X Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur	Iric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S9) (LRR R, MLRA High Chroma Sands (S11) (LRR K, L)  Loamy Mucky Mineral (F1) (LRR K, L)  Loamy Gleyed Matrix (F2)  X Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Marl (F10) (LRR K, L)  icators of hydrophytic vegetation and wetland hydrology must be present, unless di				, MLRA [,] R K, L) R K, L)	Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks)				
Type:	_ayer (if observed): 									
Depth (in	ches):						Hydric Soil Pres	ent?	Yes X	No
	m is revised from Nor 2015 Errata. (http://w							RCS Field I	Indicators of H	ydric Soils,

Project/Site: Emerald Park Landfill Western E	Expansion	City/County: Waukes	ha	Sampling Date: 9/28/21				
Applicant/Owner: Emeral Park Landfill, LL			State: WI	Sampling Point: w2-8w-con				
Investigator(s): LS & SAL		Section Tov	vnship, Range: S36 T5N					
Landform (hillside, terrace, etc.): Depression	n local r	elief (concave, conve		Slope %: 2				
Subregion (LRR or MLRA): LRR K	Lat: naturally problema	·	-	Datum: NA				
Soil Map Unit Name: Montgomery silty clay lo		Long.	NWI classification:	<del></del>				
Are climatic / hydrologic conditions on the site of the Vegetation X, Soil X, or Hydrologic		Yes X ned? Are "Norm		explain in Remarks.) sent? Yes No X				
Are Vegetation, Soil, or Hydrole			, explain any answers ir	n Remarks.)				
SUMMARY OF FINDINGS – Attach	<u> </u>			·				
Hydric Soil Present?	Yes X No X Yes X No Yes X No	Is the Sampled Ar within a Wetland? If yes, optional Wet	Yes X	No				
Remarks: (Explain alternative procedures here Wetland depression within soybean field, rece		s indicate wetlands in	this location					
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indicators (	minimum of two required)				
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil Cracks (B6)					
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (B10)					
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)					
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (0	ogen Sulfide Odor (C1) Crayfish Burrows (C8)						
Sediment Deposits (B2)	Oxidized Rhizospheres o	ized Rhizospheres on Living Roots (C3) X Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3)	Presence of Reduced Iro	ence of Reduced Iron (C4)  X Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	X Geomorphic Position	C Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)	Muck Surface (C7) Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remark							
Sparsely Vegetated Concave Surface (B8	3)		FAC-Neutral Test (	(D5)				
Field Observations:								
Surface Water Present? Yes	No X Depth (inches):							
Water Table Present? Yes	No X Depth (inches):							
Saturation Present? Yes	No X Depth (inches):	Wetland	d Hydrology Present?	Yes <u>X</u> No				
(includes capillary fringe)			2.11					
Describe Recorded Data (stream gauge, mon	litoring well, aerial photos, pre	vious inspections), if a	ivaliable:					
Remarks:								
Remarks.								

<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3. 4.				Total Number of Dominant Species Across All Strata:1(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: )				OBL species 0 x 1 = 0
				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3				FACU species 0 x 4 = 0
4.				UPL species 5 x 5 = 25
<u> </u>				Column Totals: 5 (A) 25 (B)
6				Prevalence Index = B/A = 5.00
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Glycine max	5	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2				4 - Morphological Adaptations (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
9				
0				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
9				
				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	5	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines - All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3.				Vegetation
4				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ Cyperus esculentus present in field outside plot.	ate sheet.)			

Sampling Point: W2-8W-CON

SOIL Sampling Point W2-8W-CON

	•	to the de				ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Featur %	Type ¹	Loc ²	Texture	Remarks		
0-7	10YR 2/1	100	Color (moist)	70	Турс		Loamy/Clayey	Silty Clay, roots		
7-14	10Y 6/1	60	10YR 6/8	20	С	M	<u>, , , , , , , , , , , , , , , , , , , </u>	Clay, prominent redox concentrations		
			10YR 2/1	20		M				
¹Type: C=Co	oncentration, D=Depl	etion, RM	 1=Reduced Matrix, N	 1S=Mas	ked San	d Grains.	² Location:	PL=Pore Lining, M=Matrix.		
Hydric Soil I		,	•					for Problematic Hydric Soils ³ :		
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		fluck (A10) ( <b>LRR K, L, MLRA 149B</b> )		
	ipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)			
Black His			Thin Dark Surfa							
	n Sulfide (A4)		High Chroma S					lue Below Surface (S8) (LRR K, L)		
	Layers (A5)	. (Δ11)	Loamy Mucky I			K K, L)	Thin Dark Surface (S9) (LRR K, L)			
	Below Dark Surface	e (A11)	X Loamy Gleyed		F2)			anganese Masses (F12) (LRR K, L, R)		
	rk Surface (A12)		X Depleted Matrix		-0)			ont Floodplain Soils (F19) (MLRA 149B		
	ucky Mineral (S1)		Redox Dark Su	-	-			Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )		
	leyed Matrix (S4)		Depleted Dark					arent Material (F21)		
	edox (S5)		Redox Depress	,	8)		Very Shallow Dark Surface (F22)			
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (	Explain in Remarks)		
Dark Sur	face (S7)									
		ion and w	etland hydrology mu	ıst be pı	resent, ur	nless dist	urbed or problematic	).		
Type:	-ayer (if observed): Compac	tinon								
Depth (in	iches):	7					Hydric Soil Prese	ent? Yes X No No		
Remarks:							001 : 1 1 11 115	200 5: 111 1: 4		
	m is revised from No 2015 Errata. (http://w							RCS Field Indicators of Hydric Soils,		
-,	( )		<b>3</b>	_			,			

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: W2-9U-CON
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E
Landform (hillside, terrace, etc.): Hillside Loca	al relief (concave, convex, none): Convex Slope %: 4
Subregion (LRR or MLRA): LRR K Lat: naturally problem	· · · · · · · · · · · · · · · · · · ·
Soil Map Unit Name: Saylesville silt loam	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly distu	
Are Vegetation, Soil, or Hydrology naturally problem	
	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Soybean field, recently cut. Soils/vegetation/hydrology distrubed by agricu	ulture.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)Hydrogen Sulfide Odor	
Sediment Deposits (B2)  Oxidized Rhizospheres  Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced I	
Algal Mat or Crust (B4)  Recent Iron Reduction  This Muck Surface (C7)	
Iron Deposits (B5) Thin Muck Surface (C7	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present?         Yes         No X         Depth (inches           Water Table Present?         Yes         No X         Depth (inches           Saturation Present?         Yes         No X         Depth (inches	
Water Table Present? Yes No X Depth (inches	
	s): Wetland Hydrology Present? Yes No _X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, principle (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aeriai photos, pi	revious inspections), il avaliable.
Remarks:	

/EGETATION – Use scientific names of pl	Absolute	Dominant	Indicator	Sampling Point: W2-9U-CON
Tree Stratum (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:
1. None				Number of Deminant Species
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
1				Total Number of Dominant Species Across All Strata: 4 (B)
				Species Across Air Strata.
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')	ı			OBL species 0 x 1 = 0
1. None				FACW species 0 x 2 = 0
2.				FAC species0 x 3 =0
3.	• '-			FACU species 10 x 4 = 40
1.				UPL species 10 x 5 = 50
5.				Column Totals: 20 (A) 90 (B)
	• '-			Prevalence Index = B/A = 4.50
· -				
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Glycine max	5	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2. Cirsium arvense	5	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Silene latifolia	5	Yes	UPL	data in Remarks or on a separate sheet)
4. Glechoma hederacea	5	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5.		<u> </u>	<del></del>	¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
0				
•				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
·				didifieter at breast fielglit (DDF1), regardless of fielglit.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	20	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)	)			Woody vines – All woody vines greater than 3.28 ft ir
1				height.
2.	<u> </u>			
3.				Hydrophytic Vegetation
4.				Present? Yes No X
· -		=Total Cover		
D				
Remarks: (Include photo numbers here or on a sepa Recently cut stubble	arate sneet.)			
Necestraly out stabble				

SOIL Sampling Point W2-9U-CON

		o the de				tor or c	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Featur %	es Type ¹	Loc ²	Texture	Remarks		
0-12	10YR 2/1	100	Color (moist)		Туре		Loamy/Clayey	Silty Clay, roots		
12-20	10YR 5/2	60	10YR 6/8	30			Loamy/Clayey	Clay, prominent redox concentrations		
			10YR 2/1	10				771		
								-		
¹Type: C=Co	oncentration, D=Depl	etion, RM	======================================	IS=Mas	ked San	d Grains.	² Location:	PL=Pore Lining, M=Matrix.		
Hydric Soil I		•	·					for Problematic Hydric Soils ³ :		
Histosol	(A1)		Polyvalue Belov	w Surfa	ce (S8) (I	LRR R,	2 cm M	fluck (A10) ( <b>LRR K, L, MLRA 149B</b> )		
	ipedon (A2)		MLRA 149B)					Prairie Redox (A16) ( <b>LRR K, L, R</b> )		
Black His	` '		Thin Dark Surfa							
	n Sulfide (A4)		High Chroma S	-				Polyvalue Below Surface (S8) (LRR K, L)		
	Layers (A5)	(0.4.4)	Loamy Mucky N			RK,L)	Thin Dark Surface (S9) (LRR K, L)			
	Below Dark Surface	(A11)	Loamy Gleyed		F2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	rk Surface (A12) ucky Mineral (S1)		Depleted Matrix Redox Dark Su		6)		Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	leyed Matrix (S4)		Depleted Dark					arent Material (F21)		
	edox (S5)		Redox Depress					hallow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) (LRI	`	-,			Explain in Remarks)		
Dark Sur	face (S7)						<u>—</u>			
3										
	nydrophytic vegetati ayer (if observed):	on and w	etland hydrology mu	ist be pi	esent, ur	niess disi	turbed or problematio	). 		
Type:										
Depth (in	iches):						Hydric Soil Pres	ent? Yes <u>X</u> No		
Remarks:										
								RCS Field Indicators of Hydric Soils,		
Version 7.0, 2	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	SE_DOC	JUMENI	S/nrcs14	(2p2_051293.docx)			

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21						
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: w2-9w-con						
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E						
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope %: 2						
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA						
Soil Map Unit Name: Montgomery silty clay loam	NWI classification: E1K						
Are climatic / hydrologic conditions on the site typical for this tim	ne of year? Yes X No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrologysignifi	cantly disturbed?  Are "Normal Circumstances" present? Yes X No						
Are Vegetation, Soil, or Hydrologynatura							
<del></del>	wing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present?         Yes X         No           Hydric Soil Present?         Yes X         No           Wetland Hydrology Present?         Yes X         No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID: W9						
Remarks: (Explain alternative procedures here or in a separat Wetland depression adjacent to soybean field.	э төрогс <i>)</i>						
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that a Surface Water (A1) Water-Stain	apply) Surface Soil Cracks (B6) ed Leaves (B9) Drainage Patterns (B10)						
High Water Table (A2)  Water-Staff Aquatic Fau							
Saturation (A3)  Marl Deposi							
1 <del></del>	ulfide Odor (C1) Crayfish Burrows (C8)						
<del></del>	res on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)						
<del></del>	duced Iron (C4)  Stunted or Stressed Plants (D1)						
l — · · · · · · —	on Reduction in Tilled Soils (C6)  X Geomorphic Position (D2)						
Iron Deposits (B5)  Thin Muck S							
l — · · · · /	ain in Remarks) Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)						
Field Observations:							
	pth (inches):						
	pth (inches):						
Saturation Present? Yes No X De	oth (inches): Wetland Hydrology Present? Yes X No						
(includes capillary fringe)	· /						
Describe Recorded Data (stream gauge, monitoring well, aeria	I photos, previous inspections), if available:						
Remarks:							

	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
. None				Number of Dominant Species
		,		That Are OBL, FACW, or FAC: 2 (A)
				Total Number of Dominant
				Species Across All Strata: 2 (B)
·				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0% (A/B
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15')				OBL species 10 x 1 = 10
Cornus racemosa	10	Yes	FAC	FACW species 110 x 2 = 220
				FAC species 10 x 3 = 30
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
				Column Totals: 130 (A) 260 (B
				Prevalence Index = B/A = 2.00
				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%
Phalaris arundinacea	90	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
Solidago gigantea	20	No	FACW	4 - Morphological Adaptations ¹ (Provide supporting
Solidago gigantea  Typha angustifolia	10	No	OBL	data in Remarks or on a separate sheet)
Jr. v. v. G. v. v. v.				Problematic Hydrophytic Vegetation ¹ (Explain)
				1 Indicators of hydric call and watland hydrology must
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		,		Definitions of Vegetation Strata:
		,		Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height
).				Sapling/shrub – Woody plants less than 3 in. DBH
1.				and greater than or equal to 3.28 ft (1 m) tall.
2.				Herb – All herbaceous (non-woody) plants, regardles
	120	=Total Cover		of size, and woody plants less than 3.28 ft tall.
/oody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft i
				height.
				Hydrophytic
				Vegetation Present? Yes X No
		=Total Cover		1.155min 1.15 <u>-x</u> 1.15 <u>-x</u>
		- I otal Oovel		

SOIL Sampling Point W2-9W-CON

		o the de				tor or c	onfirm the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Featur %	es Type ¹	Loc ²	Texture	Remarks
0-9	10YR 2/1	100	Golor (moist)	70	Турс		Loamy/Clayey	Silt Loam, roots
9-18	10YR 2/1	90	10YR 6/1	10	С	M	Loamy/Clayey	Silty Clay, prominent redox concentrations, roots
18-22	10YR 5/1	70	10YR 2/1	30		М		Clay, mixed matrix
¹ Type: C=Co	ncentration, D=Depl	etion RM	=Reduced Matrix M	IS=Mas	ked Sand	Grains	² I ocation:	PL=Pore Lining, M=Matrix.
Black His Hydroger Stratified Depleted X Thick Da Sandy M Sandy Gl Sandy Re Stripped Dark Sur	(A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) Below Dark Surface rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7)		Polyvalue Belo MLRA 149B; Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed X Depleted Matrix Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LRI	ace (S9) sands (S dineral Matrix ( (F3) rface (F Surface sions (F6 R K, L)	(LRR R, 11) (LRF (F1) (LRF (F2) 6) (F7)	MLRA ?	2 cm M Coast I Polyva Thin D Iron-Ma Piedma Mesic S Red Pa Very S	for Problematic Hydric Soils ³ : fluck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) flucky Peat or Peat (S3) (LRR K, L, R) lue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) ont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B) arent Material (F21) hallow Dark Surface (F22) (Explain in Remarks)
Type: _ Depth (in	- ches):						Hydric Soil Pres	ent? Yes <u>X</u> No
	m is revised from Nor 2015 Errata. (http://w							RCS Field Indicators of Hydric Soils,

SOIL Sampling Point W3-1W-CON

Profile Desc Depth	ription: (Describe t	to the de	•	iment tl		ator or c	onfirm the absence	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-7	10YR 2/1	100					Mucky Loam/Clay	Clay, roots, mucky		
7-20	10YR 4/1	70	10YR 6/8	15	С	M		Clay, prominent redox concentrations		
			10YR 2/1	15		M				
	-									
¹Typo: C=Co	oncentration, D=Depl	lotion PA	A-Poducod Matrix N		kod San	d Grains	² Location:	PL=Pore Lining, M=Matrix.		
Hydric Soil I		letion, Ki	1-Reduced Matrix, N	13-IVIAS	keu San	u Grains		for Problematic Hydric Soils ³ :		
Histosol			Polyvalue Belo	w Surfa	ce (S8) (	LRR R,		uck (A10) (LRR K, L, MLRA 149B)		
Histic Ep	ipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)			
Black Histic (A3)			Thin Dark Surfa							
	n Sulfide (A4)			High Chroma Sands (S11) ( <b>LRR K, L)</b> Loamy Mucky Mineral (F1) ( <b>LRR K, L</b> )				? Polyvalue Below Surface (S8) (LRR K, L)		
	Layers (A5)	(411)				RK,L)	Thin Dark Surface (S9) (LRR K, L)			
	l Below Dark Surface rk Surface (A12)	(A11)	Loamy Gleyed  X Depleted Matrix	-	F2)		Iron-Manganese Masses (F12) ( <b>LRR K, L, R</b> ) Piedmont Floodplain Soils (F19) ( <b>MLRA 149B</b> )			
	ucky Mineral (S1)		Redox Dark Su		6)			Spodic (TA6) (MLRA 144A, 145, 149B)		
	leyed Matrix (S4)		Depleted Dark					rent Material (F21)		
	edox (S5)		Redox Depress				Very Shallow Dark Surface (F22)			
	Matrix (S6)		Marl (F10) ( <b>LR</b> l		•		Other (Explain in Remarks)			
Dark Sur	face (S7)									
³ Indicators of	hydrophytic vegetat	ion and w	vetland hydrology mu	ıst be pı	resent, u	nless dis	turbed or problematic			
	ayer (if observed):						·			
Type:	-									
Depth (in	iches):						Hydric Soil Prese	ent? Yes <u>X</u> No		
Remarks:										
	m is revised from No 2015 Errata. (http://w							RCS Field Indicators of Hydric Soils,		
version 7.0, 2	2013 Ellata. (IIIIp.//W	/ww.iiics.	usua.gov/internet/1 c	JL_DO(	JOIVILINI	O/111C3 1-	+2p2_001290.d0cx)			

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/27/21						
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: W4-1U-CON						
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E						
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Convex Slope %: 4						
Subregion (LRR or MLRA): LRR K Lat: naturally problem	· · · · · · · · · · · · · · · · · · ·						
Soil Map Unit Name: Muakego muck	NWI classification:						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology significantly distur	rbed? Are "Normal Circumstances" present? Yes X No						
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing same	npling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area						
Hydric Soil Present? Yes No	within a Wetland? Yes No X						
Wetland Hydrology Present?  Yes  No  X	If yes, optional Wetland Site ID:						
Depression adjacent to manmade berms.							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves (							
High Water Table (A2)  Aquatic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1)  Hydrogen Sulfide Odor  Outline of Blain and Blai							
Sediment Deposits (B2)  Oxidized Rhizospheres  Diff Deposits (B2)							
Drift Deposits (B3) Presence of Reduced In	<u> </u>						
<del></del>	luction in Tilled Soils (C6) Geomorphic Position (D2) ace (C7) Shallow Aquitard (D3)						
<del></del>							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remain Sparsely Vegetated Concave Surface (B8)	rks)Microtopographic Relief (D4) FAC-Neutral Test (D5)						
	(Ac-Neutral Test (D3)						
Field Observations:							
Surface Water Present?         Yes         No         X         Depth (inches)           Water Table Present?         Yes         No         X         Depth (inches)           Saturation Present?         Yes         No         X         Depth (inches)	<u> </u>						
Water Table Present? Yes No X Depth (inches)							
Saturation Present? Yes No X Depth (inches) (includes capillary fringe)	:   Wetland Hydrology Present? Yes No _X_						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:						
Bosonibe recorded Bata (stream gauge, monitoring won, dental priotes, pri	sviodo inspectiono), il dvalidole.						
Remarks:							

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
			· · · · · · · · ·	Number of Deminant Species
	-			Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant Species Across All Strata: 2 (B)
				Species Across Ali Strata.
				Percent of Dominant Species
·	- ——			That Are OBL, FACW, or FAC: 0.0% (A/B)
·				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:	)			OBL species 0 x 1 = 0
·				FACW species 10 x 2 = 20
				FAC species 0 x 3 = 0
				FACU species 55 x 4 = 220
	-			UPL species 40 x 5 = 200
•	-			Column Totals: 105 (A) 440 (B)
	-			Prevalence Index = B/A = 4.19
·		· · ·		Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Poa pratensis	45	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
. Medicago sativa	25	Yes	UPL	4 - Morphological Adaptations ¹ (Provide supporting
. Melilotus alba	15	No	UPL	data in Remarks or on a separate sheet)
. Solidago canadensis	10	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
Phalaris arundinacea	10	No	FACW	¹ Indicators of hydric soil and wetland hydrology must
	-			be present, unless disturbed or problematic.
	-			Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
·	- ——			diameter at preast neight (DDD), regardess of height.
0	- ——			Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2	<u> </u>			Herb – All herbaceous (non-woody) plants, regardles
	105	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size:	)			Woody vines – All woody vines greater than 3.28 ft in
·		· <u> </u>		height.
				Hydrophytic
•	-			Vegetation Present? Yes No X
	-	=Total Cover		

SOIL Sampling Point W4-1U-CON

_		o the dep				tor or co	onfirm the absence	of indicate	ors.)	
Depth	Matrix			k Featur	-	. 2				
(inches)	Color (moist)	<u></u> %	Color (moist)	<u>%</u>	Type '	Loc ²	Texture		Remarks	<u> </u>
0-20	10YR 5/2	70	10YR 5/8	30	С	M		Silt, promi	inent redox cond	centrations, roots
										-
										-
										-
	_		_							-
¹Type: C=Conce	entration D=Denle	etion RM=	Reduced Matrix, M	 AS=Mas	ked Sand	d Grains	² Location:	PI =Pore I	ining, M=Matri	x
Hydric Soil Indi		J. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ttoddood Watist, W	TO IVIGO	Rod Garr	a Graine.			matic Hydric	•
Histosol (A1)			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,			(LRR K, L, ML	
Histic Epiped		_	MLRA 149B)		( ) (	,			ox (A16) ( <b>LRR</b>	•
Black Histic			Thin Dark Surfa		(LRR R	, MLRA 1			or Peat (S3) (	-
Hydrogen Su	ulfide (A4)		High Chroma S					ue Below S	Surface (S8) ( <b>I</b>	RR K, L)
Stratified Lay	yers (A5)		Loamy Mucky I	Mineral	(F1) ( <b>LRI</b>	R K, L)	Thin Da	ark Surface	e (S9) ( <b>LRR K</b> ,	L)
Depleted Be	low Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Ma	nganese N	Masses (F12)	(LRR K, L, R)
Thick Dark S	Surface (A12)	_	Depleted Matrix	x (F3)			Piedmo	nt Floodpla	ain Soils (F19)	(MLRA 149B)
	y Mineral (S1)	_	Redox Dark Su					-		A, 145, 149B)
	ed Matrix (S4)	_	Depleted Dark					rent Mater		
Sandy Redo	, ,	_	Redox Depress	-	8)				k Surface (F22	2)
Stripped Mat		_	Marl (F10) ( <b>LR</b>	RK, L)			Other (	Explain in f	Remarks)	
Dark Surface	9 (57)									
³ Indicators of by	dronhytic vegetati	on and we	tland hydrology mi	iet ha ni	esent III	alace diet	turbed or problematic			
Restrictive Lave		on and we	dand flydrology ffic	ist be pi	esent, ui	iless dist	dibed of problematic	•		
Type:	or (ii observeu).									
Depth (inche	ne).						Hydric Soil Prese	nnt?	Yes	No X
							Tryunc 3011 Frest	711(:	163	<u> </u>
Remarks:	ravised from Nor	thoontrol c	and Northoast Pagi	onal Cu	nnlomon	t Varaian	2.0 to include the NF	CC Eigld I	ndicators of U	vdria Saila
							2p2_051293.docx)	CO I leiu I	nuicators of fr	yunc oons,
	· · · · · · · · · · · · · · · · · ·		9				,			

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/27/21
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: W4-1W-CON
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E
Landform (hillside, terrace, etc.): Depression Local re	elief (concave, convex, none): Concave Slope %: 4
Subregion (LRR or MLRA): LRR K Lat: naturally problemate	·
Soil Map Unit Name: Salylesville silt loam	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	ped? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problemat	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: W4
Remarks: (Explain alternative procedures here or in a separate report.)  Depression within manmade berms.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
Sediment Deposits (B2) Oxidized Rhizospheres o	
Drift Deposits (B3) Presence of Reduced Irol	<u> </u>
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	· · · · · · · · · · · · · · · · · · ·
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       No       X       Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1		·		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.		·		Total Number of Dominant Species Across All Strata: 1 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Populus deltoides	3	No	FAC	FACW species 110 x 2 = 220
2.				FAC species 3 x 3 = 9
3.				FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5.				Column Totals: 113 (A) 229 (B)
6.	•			Prevalence Index = B/A = 2.03
7.				Hydrophytic Vegetation Indicators:
	3	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		ŗ.		X 2 - Dominance Test is >50%
1. Phalaris arundinacea	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Aster lanceolatus	5	No	FACW	4 - Morphological Adaptations ¹ (Provide supporting
Solidago gigantea	5	No	FACW	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6	•	. ——		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				
ο	•			Definitions of Vegetation Strata:
0		. ——		Tree – Woody plants 3 in. (7.6 cm) or more in
· -				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	110	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)  1				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)	·		L
	,			

Sampling Point: W4-1W-CON

SOIL Sampling Point W4-1W-CON

	• •	o the de				ator or co	onfirm the absence of indicators.)
Depth	Matrix	0/		K Featur	- 1	1 2	Tautum
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type '	Loc ²	Texture Remarks
0-6	10YR 3/2	100					Silty
6-14	10YR 6/1	60	10YR 6/3	40	С	<u>M</u>	Silty, distinct redox concentrations
14-20	10Y 6/1	85	10YR 6/8	15	<u>C</u>	<u>M</u>	Silty, distinct redox concentrations
¹ Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	1S=Mas	ked San	d Grains.	. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I							Indicators for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (l	LRR R,	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	ipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa				
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)
	Layers (A5)	(444)	Loamy Mucky N			RK,L)	Thin Dark Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)		Iron-Manganese Masses (F12) (LRR K, L, R)
	rk Surface (A12) ucky Mineral (S1)		X Depleted Matrix Redox Dark Su		6)		Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)
	edox (S5)		Redox Depress				Very Shallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b> l	,	<i>3</i> )		Other (Explain in Remarks)
	face (S7)			, =/			Outer (Explain in Nonlaine)
		on and w	etland hydrology mu	ıst be pr	esent, u	nless dist	turbed or problematic.
Type:	_ayer (if observed):						
Depth (in	nches):						Hydric Soil Present? Yes X No
Remarks:	,						<u> </u>
	m is revised from Nor	rthcentral	and Northeast Regi	onal Su	pplemen	t Version	2.0 to include the NRCS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	SE_DOC	UMENT	S/nrcs14	42p2_051293.docx)

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/27/21
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: W7-1U-CON
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E
Landform (hillside, terrace, etc.): Hil Local	relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR K Lat: naturally problema	,
Soil Map Unit Name: Martinton silt loam	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturb	bed? Are "Normal Circumstances" present? Yes No X
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _X_	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)  Disturbed vegetation/soil/hydrology - planted soybean field.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th	
Drift Deposits (B3) Presence of Reduced Iro	• , ,
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       No       X       Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No _X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), il avallable:
Remarks:	
Remarks:	

	Absolute	Dominant	Indicator	<del></del>
<u>Free Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 0 (A)
3.				Total New Long of Development
ı				Total Number of Dominant Species Across All Strata: 1 (B)
·				
-				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
				Prevalence Index worksheet:
·		=Total Cover		
San line (Charte Chartena / Diet sine		- I Olai Covei		
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
l				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3				FACU species 0 x 4 = 0
l				UPL species 65 x 5 = 325
5				Column Totals: 65 (A) 325 (B)
3				Prevalence Index = B/A = 5.00
7. <u> </u>				Hydrophytic Vegetation Indicators:
		=Total Cover	( <del></del>	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		1		2 - Dominance Test is >50%
. Glycine max	65	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
			<u> </u>	4 - Morphological Adaptations ¹ (Provide supportin
			-	data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
:				
5	-			¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
3				Tree – Woody plants 3 in. (7.6 cm) or more in
)				diameter at breast height (DBH), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2.				Herb – All herbaceous (non-woody) plants, regardles:
	65	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
i.				height.
' •				
				1
2.				Hydrophytic
3.				Vegetation
2.		=Total Cover		

SOIL Sampling Point W7-1U-CON

		o the de				tor or co	onfirm the absence	of indicators.)
Depth	Matrix	0/		K Featur	-	1 2	Tarahima	Damanica
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type '	Loc ²	Texture	Remarks
0-9	10YR 2/2							Silty, roots, mineral
9-16	10YR 5/2	80	10YR 2/2	20				Clay, mixed matrix
16-20	10YR 5/4	<u> </u>	10YR 6/8	5	<u>C</u>	<u>M</u>		Clay, prominent redox concentrations
		_		_	_	_		
				<u> </u>	<u> </u>			
¹ Type: C=Cd	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	1S=Mas	ked San	d Grains.	² Location: I	PL=Pore Lining, M=Matrix.
Black His Hydrogel Stratified X Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur	(A1) lipedon (A2) stic (A3) In Sulfide (A4) I Layers (A5) I Below Dark Surface Irk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7)		Polyvalue Belom  MLRA 149B; Thin Dark Surfate High Chroma Some Loamy Mucky It Loamy Gleyed X Depleted Matrix Redox Dark Surfate Depleted Dark Redox Depress Marl (F10) (LRI  etland hydrology musters	) ace (S9) ands (S Mineral ( Matrix (I x (F3) arface (F Surface sions (FE R K, L)	(LRR R 11) (LRI (F1) (LRI (F2) 6) (F7) 3)	, MLRA 1 R K, L) R K, L)	2 cm M Coast F 5 cm M Polyvali Thin Da Iron-Ma Piedmo Mesic S Red Pa Very Sh	for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) ont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B) arrent Material (F21) hallow Dark Surface (F22) Explain in Remarks)
Type: _ Depth (ir	- nches):						Hydric Soil Prese	ent? Yes <u>X</u> No
	m is revised from Noi 2015 Errata. (http://w							RCS Field Indicators of Hydric Soils,

Project/Site: Emerald Park Landfill Western Expansion	City/County: V	Vaukesha	Sampling Date: 9/27/21		
Applicant/Owner: Emeral Park Landfill, LLC		State: WI	Sampling Point: w7-1w-CON		
Investigator(s): LS & SAL	Section	on, Township, Range: S36 T5N			
Landform (hillside, terrace, etc.): Depression		convex, none): Concave	Slope %: 2		
· · · · · · · · · · · · · · · · · · ·		Long: NA	Datum: NA		
Soil Map Unit Name: Martinton silt loam	urany problematic:	NWI classification:			
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes	S X No (If no, e	explain in Remarks.)		
Are Vegetation, Soil, or Hydrologysig	nificantly disturbed? Are	"Normal Circumstances" prese			
Are Vegetation, Soil, or Hydrologynat	urally problematic? (If r	needed, explain any answers in	n Remarks.)		
SUMMARY OF FINDINGS – Attach site map sh	nowing sampling point	locations, transects, im	portant features, etc.		
Hydric Soil Present? Yes X	Is the Samp within a We If yes, option		No		
Remarks: (Explain alternative procedures here or in a sepa Wetland depression adjacent to soybean field and manmad	. ,				
HYDROLOGY			_		
Wetland Hydrology Indicators:			minimum of two required)		
Primary Indicators (minimum of one is required; check all th			Surface Soil Cracks (B6)		
<del></del>	ained Leaves (B9)		Drainage Patterns (B10)		
<del></del>	Fauna (B13)		Moss Trim Lines (B16)		
l — · · · · · — · · · · — · · · · · · ·	osits (B15)	Dry-Season Water Table (C2)			
<del></del>	n Sulfide Odor (C1)	Crayfish Burrows (C8)			
	Rhizospheres on Living Roots				
l <del></del>	e of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
<del></del>	on Reduction in Tilled Soils (C				
	k Surface (C7)	Shallow Aquitard (D3)			
<del></del>	rplain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (	บอ)		
Field Observations:					
Surface Water Present? Yes No X	Depth (inches):				
	Depth (inches):				
	Depth (inches): V	Netland Hydrology Present?	Yes <u>X</u> No		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, ac	prial photos, provinus inconstis	ena) if available.			
Describe Recorded Data (Stream gauge, monitoring well, as	iliai priotos, previous irispectio	ris), ii avaliable.			
Remarks:					
Tremains.					

VEGETATION – Use scientific names of pl	Absolute	Dominant	Indicator	Sampling Point: W7-1W-CON
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1.				North or of Borolin and Or or in
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
-				
				Total Number of Dominant Species Across All Strata: 1 (B)
·				Species Across All Strata: 1 (B)
5.				Percent of Dominant Species
6		· ——		That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species15 x 1 =15
1				FACW species 90 x 2 = 180
2.				FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 105 (A) 195 (B)
6				Prevalence Index = B/A = 1.86
				Hydrophytic Vegetation Indicators:
7	-	=Total Cover		
Harl Objections (Distriction 51		= rotal Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Phalaris arundinacea	90	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Typha angustifolia	15	No	OBL	4 - Morphological Adaptations ¹ (Provide supportin
3				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				
11		· ——		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	-			and greater than or equal to 3.20 ft (1 m) tall.
12		<del></del>		Herb – All herbaceous (non-woody) plants, regardless
	105	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines - All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4.				Present? Yes X No No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			•
	• ,			

SOIL Sampling Point W7-1W-CON

		o the dep				tor or co	onfirm the absence of	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Featur %	es Type ¹	Loc ²	Texture	Remarks
0-10	10YR 2/1		Color (moist)		Туре	Loc	Muck	Mucky
10-20	10YR 6/8	50	10YR 5/2	30	D	M		Clay
			10YR 2/2	20				Mixed Matrix
			_					
			_					
¹Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	1S=Mas	ked San	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil I	•		, , , , , , , , , , , , , , , , , , , ,					or Problematic Hydric Soils ³ :
Histosol (	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	X 2 cm Mu	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	ipedon (A2)		MLRA 149B)					rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	` '		Thin Dark Surfa		-			ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S	-				ue Below Surface (S8) (LRR K, L)
	Layers (A5)	(444)	Loamy Mucky I			R K, L)		rk Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			nganese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12) ucky Mineral (S1)		Depleted Matrix Redox Dark Su		:6)			nt Floodplain Soils (F19) ( <b>MLRA 149B</b> ) podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					rent Material (F21)
	edox (S5)		Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	,	-,			Explain in Remarks)
Dark Sur				. ,				,
³ Indicators of	hydrophytic vegetati	on and w	etland hydrology mi	ist he ni	resent III	nless dist	turbed or problematic.	
	.ayer (if observed):	on and w	ctiana nyarology me	ist be p	CSCIII, UI	iicaa diat	dibed of problematic.	
Type:								
Depth (in	ches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								
	m is revised from Nor 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,
Version 7.0, 2	2013 Ellata. (Ilttp://w	www.iii.cs.t	usua.gov/internet/1 c	JL_DO(	JOIVILINI	0/11/03 14	·2p2_001290.d0cx)	

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: W8-1U-CON
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E
Landform (hillside, terrace, etc.): None	Local relief (concave, convex, none): Convex Slope %: 3
Subregion (LRR or MLRA): LRR K Lat: naturally	<u> </u>
Soil Map Unit Name: Montgomery silty clay loam	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time o	f year? Yes X No (If no, explain in Remarks.)
Are Vegetation X , Soil X , or Hydrology X significan	tly disturbed?  Are "Normal Circumstances" present? Yes No X
Are Vegetation, Soil, or Hydrology naturally	<del></del>
	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area
Hydric Soil Present? Yes X No	<del>_</del>
Wetland Hydrology Present? Yes No X	
Remarks: (Explain alternative procedures here or in a separate re Soil/vegetation/hydrology disturbed by agricultural use - soybean f	• ,
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	<u>Surface Soil Cracks (B6)</u>
Surface Water (A1) Water-Stained I	Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna	(B13) Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (I	
Water Marks (B1) Hydrogen Sulfic	
<del></del>	spheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
l — · · · · · · —	duced Iron (C4) Stunted or Stressed Plants (D1)
	duction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surfa	
Inundation Visible on Aerial Imagery (B7) Other (Explain i	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth	(inches):
Water Table Present? Yes No X Depth	(inches):
Surface Water Present?         Yes         No         X         Depth           Water Table Present?         Yes         No         X         Depth           Saturation Present?         Yes         No         X         Depth	(inches): Wetland Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Demonto	
Remarks:	

### **VEGETATION** – Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2.				Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
3. 4.				Total Number of Dominant Species Across All Strata:1 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: )				OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
4.				UPL species 5 x 5 = 25
5				Column Totals: 5 (A) 25 (B)
6				Prevalence Index = B/A = 5.00
7.				
1.		-Total Cayor		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5' )		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
1. Glycine max	5	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2.				4 - Morphological Adaptations ¹ (Provide supporting
3				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				114
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				-
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	5	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: )		<u>-</u>		Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic
1				Vegetation Present? Yes No X
4.		=Total Cover		· · · · · · · · · · · · · · · · · · ·
Remarks: (Include photo numbers here or on a separ Recently cut - stubble.	ate sheet.)			

Sampling Point: W8-1U-CON

SOIL Sampling Point W8-1U-CON

		o the de				ator or co	onfirm the absence o	of indicators.)	
Depth	Matrix	0/		K Featur	- 1	1 - 2	T 4	Demonder	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type	Loc ²	Texture	Remarks	
0-10	10YR 2/1	100						Silty Clay, roots	
10-20	10YR 5/1	65	10YR 6/8	30	С	M		Clay, prominent redox concentra	ations
			10YR 2/1	5		М			
							<del></del>		
			_						
1- 0.0							2, ,,		
	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	1S=Mas	ked San	d Grains.		PL=Pore Lining, M=Matrix.	
Hydric Soil I			Dobavoluo Bolo	u Curfo	oo (CO) ((	DD D		for Problematic Hydric Soils ³ :	٠,
Histosol			Polyvalue Belo MLRA 149B		ce (58) (I	LKK K,		uck (A10) (LRR K, L, MLRA 149B	•)
Black His	ipedon (A2)		Thin Dark Surfa		(I PP P	MI DA		rairie Redox (A16) ( <b>LRR K, L, R</b> ) ucky Peat or Peat (S3) ( <b>LRR K, L</b> ,	D/
	n Sulfide (A4)		High Chroma S					ue Below Surface (S8) ( <b>LRR K, L</b> )	-
	Layers (A5)		Loamy Mucky I					rk Surface (S9) ( <b>LRR K, L</b> )	
	Below Dark Surface	(A11)	Loamy Gleyed			, _ /		nganese Masses (F12) ( <b>LRR K, L</b>	<b>R</b> )
	rk Surface (A12)	()	X Depleted Matrix		- –,			nt Floodplain Soils (F19) ( <b>MLRA</b> 1	
	ucky Mineral (S1)		Redox Dark Su		<del>-</del> 6)			podic (TA6) (MLRA 144A, 145, 1	
	leyed Matrix (S4)		Depleted Dark	-	-			rent Material (F21)	ŕ
Sandy R	edox (S5)		Redox Depress	sions (F	8)		Very Sh	allow Dark Surface (F22)	
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K, L</b> )			Other (E	Explain in Remarks)	
Dark Sur	face (S7)								
³ Indicators of	hydrophytic vegetati	on and w	etland hydrology mu	ıst be pr	resent, ui	nless dist	turbed or problematic.		
	ayer (if observed):								
Type:	-								
Depth (in	iches):						Hydric Soil Prese	nt? Yes X No	_
Remarks:							•		
								CS Field Indicators of Hydric Soils	3,
Version 7.0, 2	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	SE_DOO	CUMENT	S/nrcs14	2p2_051293.docx)		

Project/Site: Emerald Park Landfill West	ern Expansion	City/County: Waukesha		Sampling Date: 9/28/21		
Applicant/Owner: Emeral Park Landfi	ill, LLC	_	State: WI	Sampling Point: W8-1W-CON		
Investigator(s): LS & SAL		Section, Townsh	ip, Range: S36 T5N	<u> </u>		
Landform (hillside, terrace, etc.): Depre	ession Loca	al relief (concave, convex, no	one): Concave	Slope %: 3		
Subregion (LRR or MLRA): LRR K	Lat: naturally problen	•	,	 Datum: NA		
Soil Map Unit Name: Montgomery silty c			NWI classification:	F0Kf		
Are climatic / hydrologic conditions on the	site typical for this time of year?	Yes X	No (If no, e	explain in Remarks.)		
Are Vegetation X, Soil X, or Hy	ydrology X significantly distu	urbed? Are "Normal C	ircumstances" prese	ent? Yes No X		
Are Vegetation, Soil, or Hy	ydrologynaturally problen	natic? (If needed, exp	olain any answers in	Remarks.)		
SUMMARY OF FINDINGS – Atta	ch site map showing sar	mpling point locations	s, transects, im	portant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No		
Wetland Hydrology Present?	Yes X No	If yes, optional Wetland				
Remarks: (Explain alternative procedure Wetland depression drainage in soybean		disturbed due to agricultura	l use.			
HYDROLOGY						
Wetland Hydrology Indicators:		Sec	ondary Indicators (n	ninimum of two required)		
Primary Indicators (minimum of one is re-	quired; check all that apply)		Surface Soil Cracks	s (B6)		
Surface Water (A1)	Water-Stained Leaves	(B9)	Drainage Patterns (	B10)		
High Water Table (A2)	Aquatic Fauna (B13)	Aquatic Fauna (B13) Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor		Crayfish Burrows (C	·		
Sediment Deposits (B2)	Oxidized Rhizospheres	s on Living Roots (C3)	Saturation Visible o	n Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced	` '	Stunted or Stressed	` '		
Algal Mat or Crust (B4)	Recent Iron Reduction	in Tilled Soils (C6) X	Geomorphic Position	n (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7		Shallow Aquitard (D			
Inundation Visible on Aerial Imagery	(B7) Other (Explain in Rema		Microtopographic R			
Sparsely Vegetated Concave Surfac	e (B8)	<u>X</u>	FAC-Neutral Test (I	D5)		
Field Observations:						
Surface Water Present? Yes	No X Depth (inches  No X Depth (inches  No X Depth (inches	s):				
Water Table Present? Yes	No X Depth (inches	s):				
Saturation Present? Yes	No X Depth (inches	s): Wetland Hy	drology Present?	Yes X No		
(includes capillary fringe)						
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, p	revious inspections), if availa	able:			
Remarks: Soybeans (stubble) more sparce in this v	vetland area than in the rest of th	ne field.				

# $\label{eq:VEGETATION} \textbf{VEGETATION} - \textbf{Use scientific names of plants}.$

Absolute	Dominant	Indicator	
% Cover	Species?	Status	Dominance Test worksheet:
			Number of Deminant Charles
			Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
			Total Number of Dominant Species Across All Strata: 2 (B)
			Species Across All Strata: 2 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 50.0% (A/B)
			Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
			OBL species 0 x 1 = 0
			FACW species 5 x 2 = 10
			FAC species 0 x 3 = 0
		·	FACU species 0 x 4 = 0
			UPL species 5 x 5 = 25
			Column Totals: 10 (A) 35 (B)
			Prevalence Index = B/A = 3.50
			Hydrophytic Vegetation Indicators:
	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
5	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹
5	Yes	UPL	4 - Morphological Adaptations ¹ (Provide supportin
			data in Remarks or on a separate sheet)
		·	Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of height.
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardless
10	=Total Cover		of size, and woody plants less than 3.28 ft tall.
			Woody vines All woody vines greater than 3.28 ft in
			<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
			g.n.
			I
			Hydrophytic
			Vegetation
	=Total Cover		
	5 5	=Total Cover  =Total Cover  5 Yes 5 Yes	=Total Cover  =Total Cover  =Total Cover  UPL

SOIL Sampling Point W8-1W-CON

		o the de				ator or c	onfirm the absence	of indicators.)	
Depth	Matrix	0/		Featur	- 1	1 - 2	T	Demonto	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	Texture	Remarks	
0-12	10YR 2/1	100					Mucky Loam/Clay	Silty Clay, mucky, mineral	
12-20	10Y 6/1	65	10YR 6/8	25	<u>C</u>	M		Clay, prominent redox concentration	ons
			10YR 2/1	10		M			
									_
	ncentration, D=Depl	etion, RM	I=Reduced Matrix, M	1S=Mas	ked Sand	d Grains		PL=Pore Lining, M=Matrix.	
Hydric Soil I Histosol (			Polyvalue Belo	w Surfa	na (S8) (I	DD D		for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		MLRA 149B)		Je (30) (I	LINI IX,		Prairie Redox (A16) ( <b>LRR K, L, R</b> )	
Black His			Thin Dark Surfa		(LRR R	. MLRA		ucky Peat or Peat (S3) (LRR K, L, I	R)
	n Sulfide (A4)		High Chroma S					ue Below Surface (S8) ( <b>LRR K, L</b> )	-/
	Layers (A5)		X Loamy Mucky	-				ark Surface (S9) (LRR K, L)	
X Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Ma	anganese Masses (F12) (LRR K, L,	R)
X Thick Da	rk Surface (A12)		X Depleted Matrix	k (F3)			Piedmo	ont Floodplain Soils (F19) ( <b>MLRA 14</b>	<b>9B</b> )
	ucky Mineral (S1)		Redox Dark Su	-	-			Spodic (TA6) ( <b>MLRA 144A, 145, 14</b> 9	9B)
	leyed Matrix (S4)		Depleted Dark					rent Material (F21)	
	edox (S5)		Redox Depress	`	3)			nallow Dark Surface (F22)	
Stripped Dark Sur	Matrix (S6)		Marl (F10) ( <b>LR</b> l	R K, L)			Other (	Explain in Remarks)	
Dark Sur	iace (S7)								
³ Indicators of	hydrophytic vegetati	on and w	retland hydrology mu	ıst be pr	esent, ur	nless dis	sturbed or problematic		
	ayer (if observed):								
Type:	<u> </u>								
Depth (in	iches):						Hydric Soil Prese	ent? Yes X No	
Remarks:									
	m is revised from Nor 2015 Errata. (http://w		•					RCS Field Indicators of Hydric Soils,	
version 7.0, 2	2013 Elfata. (IIttp://w	ww.iiics.	usua.gov/internet/1 c	BL_DOC	OIVILINI	3/11105 14	+2p2_031293.d0cx)		

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21					
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: W9-1U-CON					
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E					
Landform (hillside, terrace, etc.): Hillside	Local relief (concave, convex, none): Convex Slope %: 2					
Subregion (LRR or MLRA): LRR K Lat: naturally p	<del>-</del> · · · · · · · · · · · · · · · · · · ·					
Soil Map Unit Name: Montgomery silty clay loam	NWI classification: NA					
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X No (If no, explain in Remarks.)					
Are Vegetation X , Soil X , or Hydrology X significant						
Are Vegetation, Soil, or Hydrologynaturally p	oroblematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydric Soil Present? Yes X No	<del>-</del>   ·					
Wetland Hydrology Present? Yes No X						
Remarks: (Explain alternative procedures here or in a separate report.)  Disturbed soils/vegetation/hydrology due to agricultural use - soybean field, recently cut.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that appl	y) Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained L	eaves (B9) Drainage Patterns (B10)					
High Water Table (A2) Aquatic Fauna (	B13) Moss Trim Lines (B16)					
Saturation (A3) Marl Deposits (E						
Water Marks (B1) Hydrogen Sulfid						
<del></del>	pheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Rec						
	luction in Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5)Thin Muck Surfa						
Inundation Visible on Aerial Imagery (B7) Other (Explain in						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
	(inches):					
Water Table Present? Yes No X Depth (	inches):					
Saturation Present? Yes No X Depth (	(inches): Wetland Hydrology Present? Yes No _X					
(includes capillary fringe)	at a consideration of the state					
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:					
Remarks:						
Remarks.						

#### **VEGETATION** – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	76 Cover	Species?	Status	Dominance rest worksheet.
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
				That Are OBL, I ACW, OF I AC.
				Total Number of Dominant
4.				Species Across All Strata: 1 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 0 x 3 = 0
3				FACU species 0 x 4 = 0
4				UPL species 5 x 5 = 25
5				Column Totals: 5 (A) 25 (B)
6				Prevalence Index = B/A = 5.00
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Glycine max	5	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2				4 - Morphological Adaptations ¹ (Provide supporting
3	-			data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10	-			Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12	-			Herb – All herbaceous (non-woody) plants, regardless
	5	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1	-			height.
2				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			
Recently cut, stubble.				

Sampling Point: W9-1U-CON

SOIL Sampling Point W9-1U-CON

		o the de				tor or co	onfirm the absence o	of indicators.)	
Depth	Matrix	0/		Featur	- 1	1 2	T	D	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type '	Loc ²	Texture	R6	emarks
0-10	10YR 2/1	100						Silty Cl	lay, mineral
10-20		85	10YR 6/8	10	С	M		Gley	y 5/11YR
			10YR 2/1	5		<u>M</u>		Clay, prominent	redox concentrations
									_
¹ Type: C=Con	centration, D=Deple	etion, RM	======================================	IS=Mas	ked San	d Grains.	² Location: F	PL=Pore Lining, M	=Matrix.
Hydric Soil In	dicators:							or Problematic H	_
Histosol (A	<b>A1</b> )		Polyvalue Belov	w Surfa	ce (S8) (I	LRR R,	2 cm Mu	uck (A10) ( <b>LRR K</b> ,	, L, MLRA 149B)
Histic Epip	edon (A2)		MLRA 149B)				Coast P	rairie Redox (A16	) (LRR K, L, R)
Black Histi	ic (A3)		Thin Dark Surfa	ce (S9)	(LRR R	, MLRA	149B) 5 cm Mi	ucky Peat or Peat	(S3) ( <b>LRR K, L, R</b> )
Hydrogen	Sulfide (A4)		High Chroma S	ands (S	11) ( <b>LR</b> F	R K, L)	Polyvalu	ue Below Surface	(S8) ( <b>LRR K, L</b> )
Stratified L	ayers (A5)		Loamy Mucky N	/lineral	(F1) ( <b>LRI</b>	R K, L)	Thin Da	rk Surface (S9) (L	.RR K, L)
X Depleted E	Below Dark Surface	(A11)	X Loamy Gleyed	Matrix (	F2)		Iron-Ma	nganese Masses	(F12) ( <b>LRR K, L, R</b> )
Thick Dark	Surface (A12)		X Depleted Matrix	(F3)			Piedmo	nt Floodplain Soils	s (F19) ( <b>MLRA 149B</b> )
	cky Mineral (S1)		Redox Dark Su		6)				RA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark	-	-			ent Material (F21)	·
Sandy Red			Redox Depress					allow Dark Surfac	
Stripped M	` '		Marl (F10) (LRI	-	3)			Explain in Remarks	· · · ·
Dark Surfa			Wan (i 10) (ER	<b>、 、、                                 </b>				-Apiain in Nomana	3)
	nydropnytic vegetation	on and w	etiand hydrology mu	ist be pr	esent, ui	niess dist	turbed or problematic.		
Type:	-							_	
Depth (inc	hes):						Hydric Soil Prese	nt? Yes_	X No
Remarks:									
							2.0 to include the NR	CS Field Indicator	rs of Hydric Soils,
Version 7.0, 20	015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	E_DOC	CUMENT	S/nrcs14	2p2_051293.docx)		

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21					
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: w9-1W-CON					
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E					
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope %: 2					
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA					
Soil Map Unit Name: Montgomery silty caly loam	NWI classification: F0Kf					
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If no, explain in Remarks.)					
Are Vegetation X, Soil X, or Hydrology X significan	ntly disturbed? Are "Normal Circumstances" present? Yes No X					
Are Vegetation, Soil, or Hydrologynaturally	problematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: W9					
Remarks: (Explain alternative procedures here or in a separate report.) Wetland depression in soybean field - recently cut. FSA slides showed wetland signature at this location.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that app	oly) Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained						
High Water Table (A2) Aquatic Fauna						
Saturation (A3)Marl Deposits (						
Water Marks (B1) Hydrogen Sulfi						
<del></del>	espheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
l — · · · · · · —	educed Iron (C4) Stunted or Stressed Plants (D1)					
	eduction in Tilled Soils (C6) X Geomorphic Position (D2)					
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)  — Thin Muck Surf						
Inundation Visible on Aerial Imagery (B7) Other (Explain Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
	TAC-Neutral Test (D3)					
Field Observations: Surface Water Present? Yes No X Depth	(inches):					
Water Table Present? Yes No X Depth	(inches):(inches):					
	(inches): Wetland Hydrology Present? Yes X No					
(includes capillary fringe)	Wettand Hydrology Fresent: 165 X NO					
Describe Recorded Data (stream gauge, monitoring well, aerial pl	hotos, previous inspections), if available:					
Remarks:						

#### **VEGETATION** – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC:1 (A)
3 4		·		Total Number of Dominant Species Across All Strata: 2 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: )		•		OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 2 x 3 = 6
3.				FACU species 0 x 4 = 0
4.				UPL species 5 x 5 = 25
5.				Column Totals: 7 (A) 31 (B)
6				Prevalence Index = B/A = 4.43
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		. Total Cover		2 - Dominance Test is >50%
Glycine max	5	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
Ranunculus acris	2	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3.		100	1710	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
7. 8.				_
0				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				and greater than or equal to 3.20 ft (1 m) tall.
12.	7	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: )		- Total Cover		of size, and woody plants less than 3.20 it tall.
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				neight.
3.				Hydrophytic
4.				Vegetation Present? Yes X No
<del></del>		-Total Cavan		riesent: res NO
		=Total Cover		
Remarks: (Include photo numbers here or on a separ Recently cut soybean field - stubble. Disturbed vegeta	,			
. 1000.11, 001.00, 2001.1.1.00				

Sampling Point: W9-1W-CON

SOIL Sampling Point W9-1W-CON

		o the de				ator or c	onfirm the absence	of indicators.)
Depth	Matrix	0/		Featur	-	1 - 2	T	Demonto
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type'	Loc ²	Texture	Remarks
0-18	10YR 2/1	100					Mucky Loam/Clay	Silty Clay, mucky mineral
18-20	10YR 6/2	85	10YR 6/8	5	С	M		Clay, prominent redox concentrations
			10YR 2/1	10		M		
							<del></del>	
	ncentration, D=Depl	etion, RM	I=Reduced Matrix, N	IS=Mas	ked Sand	d Grains		PL=Pore Lining, M=Matrix.
Hydric Soil I			Debarelus Belev	u Curfo	oo (CO) (I	DD D		for Problematic Hydric Soils ³ :
Histosol	ipedon (A2)		Polyvalue Below		Se (So) (I	LKK K,		luck (A10) ( <b>LRR K, L, MLRA 149B</b> ) Prairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa		(I RR R	MI RA		lucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					ue Below Surface (S8) (LRR K, L)
	Layers (A5)		X Loamy Mucky N					ark Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			. ,		anganese Masses (F12) ( <b>LRR K, L, R</b> )
X Thick Da	rk Surface (A12)		Depleted Matrix	(F3)	-		Piedmo	ont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic S	Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Pa	rent Material (F21)
	edox (S5)		Redox Depress	,	3)			nallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LRI</b>	R K, L)			Other (	Explain in Remarks)
Dark Sur	face (S7)							
³ Indicators of	hydrophytic vegetati	on and w	retland hydrology mu	ıst be pr	esent, ur	nless dis	sturbed or problematic	
	.ayer (if observed):		, 0,		•			
Type:	-							
Depth (in	ches):						Hydric Soil Prese	ent? Yes <u>X</u> No
Remarks:								
								RCS Field Indicators of Hydric Soils,
Version 7.0, 2	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	SE_DOC	UMENI	S/nrcs14	42p2_051293.docx)	

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: W10-1U-CON
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E
Landform (hillside, terrace, etc.): Hillside Local	relief (concave, convex, none): Convex Slope %: 4
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA
Soil Map Unit Name: Montgomery silty caly loam	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No _X_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Soybean field, recently cut. Soils/vegetation/hydrology disturbed by agricul	ture.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)  Hydrogen Sulfide Odor (	
Sediment Deposits (B2)  Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced Inc	<u> </u>
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5)  Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	, , , , , , , , , , , , , , , , , , , ,
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       No       X       Depth (inches):	· <u> </u>
Water Table Present? Yes No X Depth (inches):	·
Saturation Present? Yes No X Depth (inches):	:   Wetland Hydrology Present? Yes No _X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	ovious inspections) if available:
Describe Recorded Data (stream gauge, monitoring well, aerial priotos, pre	evious irrspections), ir available.
Remarks:	
Tomano.	

## $\label{eq:VEGETATION} \textbf{VEGETATION} - \textbf{Use scientific names of plants}.$

<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
3. 4.		·		Total Number of Dominant Species Across All Strata: 2 (B)
<ul><li>5.</li><li>6.</li></ul>		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7		_		Prevalence Index worksheet:
· ·		=Total Cover	_	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 0 x 3 = 0
3.				FACU species 5 x 4 = 20
4.				UPL species 5 x 5 = 25
5.				Column Totals: 10 (A) 45 (B)
6				Prevalence Index = B/A = 4.50
				Hydrophytic Vegetation Indicators:
/		=Total Cover		
Hart Chrotima (Distoire) FI		= 10lai Covei		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )	-			2 - Dominance Test is >50%
1. Glycine max	5	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2. Trifolium pratense	5	Yes	FACU	<ul> <li>4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
3				
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	10	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: )				
				Woody vines – All woody vines greater than 3.28 ft in height.
				noight.
2		. ——		Hydrophytic
4.				Vegetation Present? Yes No X
4.		T-t-! Cover		Fresent: 165 NO A
		=Total Cover		<u>l</u>
Remarks: (Include photo numbers here or on a separ Recently cut - stubble.	ate sheet.)			
Recently out - Stabbio.				

Sampling Point: W10-1U-CON

SOIL Sampling Point W10-1U-CON

		o the dep				tor or co	onfirm the absence o	of indicators.)
Depth	Matrix			K Featur	-	1 - 2	T	Demonto
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type '	Loc ²	Texture	Remarks
0-12	10YR 2/1							Silty Clay
12-20	10YR 8/1	80	10YR 6/8	5	<u>C</u>	M		Clay, prominent redox concentrations
			10YR 2/1	15		M		
			_			· · · · · · · ·	<del></del>	
	·						<u> </u>	
¹Typo: C=Co	oncentration, D=Depl	otion PM	-Poducod Matrix N		kod San	d Grains	² l ocation: F	PL=Pore Lining, M=Matrix.
Hydric Soil I	•	elion, ixivi	-Neduced Matrix, N	io-ivias	Neu Sain	J Grains.		for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (	RR R		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	ipedon (A2)	•	MLRA 149B		00 (00) (			Prairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa		(LRR R	, MLRA 1		ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)	•	— High Chroma S					ue Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)	•	Loamy Mucky I					ark Surface (S9) (LRR K, L)
X Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Ma	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmo	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic S	Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)	,	Depleted Dark	Surface	(F7)			rent Material (F21)
	edox (S5)	•	Redox Depress	,	3)			nallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	R K, L)			Other (E	Explain in Remarks)
Dark Sur	face (S7)							
³ Indicators of	hydrophytic ycgototi	on and w	atland hydrology my	iot ha nr	ocent III	alooo diot	turbed or problematic.	
	aver (if observed):	on and we	stiand hydrology mic	ist be pi	esent, ui	iless dist	lurbed or problematic.	
Type:	ayer (ii observed).							
Depth (in	ohoo):						Hydric Soil Prese	ont? Vac V No
							nyunc 3011 Prese	ent? Yes <u>X</u> No
Remarks:	ii N		and Nambaaat Dani			. \ / :	O O to include the ND	OCC Field Indicators of Hidrig Coile
	n is revised from Nor 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,
	-0 10 =11 atai (11tip://11		.oud.go 1/111101110111		, o		_poooo.uoo,	

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21					
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: w10-1W-CON					
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E					
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope %: 2					
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA					
Soil Map Unit Name: Montgomery silty clay loam	NWI classification: E1Ha					
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "Normal Circumstances" present? Yes X No					
Are Vegetation, Soil, or Hydrologynaturally p						
<del></del>	g sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present?         Yes	Is the Sampled Area within a Wetland? Yes X No  If yes, optional Wetland Site ID: W10					
Remarks: (Explain alternative procedures here or in a separate report Wetland depression adjacent to soybean field.	out.)					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply						
Surface Water (A1) Water-Stained L High Water Table (A2) Aquatic Fauna (I						
Saturation (A3)  Aquatic Fauria (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii						
Water Marks (B1)						
<del></del>						
Drift Deposits (B3)  Presence of Rec	heres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) stunted Iron (C4) Stunted or Stressed Plants (D1)					
l — · · · · · · —	uction in Tilled Soils (C6)  X Geomorphic Position (D2)					
Iron Deposits (B5)  Thin Muck Surfa						
l <del></del> · · · · · · · —	in in Remarks) Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:	<u></u> ()					
	inches):					
	inches):					
Saturation Present? Yes No X Depth (	inches): Wetland Hydrology Present? Yes X No					
(includes capillary fringe)	nones) no					
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:					
Remarks:						

## $\label{eq:VEGETATION} \textbf{VEGETATION} - \textbf{Use scientific names of plants}.$

FAC FACW	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)  Total Number of Dominant Species Across All Strata: 3 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 0 x 1 = 0  FACW species 100 x 2 = 200  FAC species 40 x 3 = 120  FACU species 0 x 4 = 0  UPL species 0 x 5 = 0  Column Totals: 140 (A) 320 (B)  Prevalence Index = B/A = 2.29  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
FAC	That Are OBL, FACW, or FAC: 3 (A)  Total Number of Dominant Species Across All Strata: 3 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 0 x 1 = 0  FACW species 100 x 2 = 200  FAC species 40 x 3 = 120  FACU species 0 x 4 = 0  UPL species 0 x 5 = 0  Column Totals: 140 (A) 320 (B)  Prevalence Index = B/A = 2.29  Hydrophytic Vegetation Indicators:
FAC	That Are OBL, FACW, or FAC: 3 (A)  Total Number of Dominant Species Across All Strata: 3 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 0 x 1 = 0  FACW species 100 x 2 = 200  FAC species 40 x 3 = 120  FACU species 0 x 4 = 0  UPL species 0 x 5 = 0  Column Totals: 140 (A) 320 (B)  Prevalence Index = B/A = 2.29  Hydrophytic Vegetation Indicators:
FAC	Total Number of Dominant Species Across All Strata:    Percent of Dominant Species   That Are OBL, FACW, or FAC:   100.0% (A/B)
FAC	Species Across All Strata:         3         (B)           Percent of Dominant Species That Are OBL, FACW, or FAC:         100.0%         (A/B)           Prevalence Index worksheet:           Total % Cover of:         Multiply by:           OBL species         0         x 1 = 0           FACW species         100         x 2 = 200           FAC species         40         x 3 = 120           FACU species         0         x 4 = 0           UPL species         0         x 5 = 0           Column Totals:         140         (A)         320         (B)           Prevalence Index = B/A =         2.29           Hydrophytic Vegetation Indicators:
FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 0 x 1 = 0  FACW species 100 x 2 = 200  FAC species 40 x 3 = 120  FACU species 0 x 4 = 0  UPL species 0 x 5 = 0  Column Totals: 140 (A) 320 (B)  Prevalence Index = B/A = 2.29  Hydrophytic Vegetation Indicators:
FAC	That Are OBL, FACW, or FAC: 100.0% (A/B)           Prevalence Index worksheet:           Total % Cover of: 0BL species 0 x 1 = 0         Multiply by: 0           FACW species 100 x 2 = 200         FAC species 40 x 3 = 120           FACU species 0 x 4 = 0         UPL species 0 x 5 = 0           Column Totals: 140 (A) 320 (B)           Prevalence Index = B/A = 2.29           Hydrophytic Vegetation Indicators:
FAC	Prevalence Index worksheet:           Total % Cover of:         Multiply by:           OBL species         0         x 1 = 0           FACW species         100         x 2 = 200           FAC species         40         x 3 = 120           FACU species         0         x 4 = 0           UPL species         0         x 5 = 0           Column Totals:         140         (A)         320         (B)           Prevalence Index = B/A =         2.29           Hydrophytic Vegetation Indicators:
FAC	Total % Cover of:         Multiply by:           OBL species         0         x 1 =         0           FACW species         100         x 2 =         200           FAC species         40         x 3 =         120           FACU species         0         x 4 =         0           UPL species         0         x 5 =         0           Column Totals:         140         (A)         320         (B)           Prevalence Index = B/A =         2.29           Hydrophytic Vegetation Indicators:
FAC	OBL species         0         x 1 =         0           FACW species         100         x 2 =         200           FAC species         40         x 3 =         120           FACU species         0         x 4 =         0           UPL species         0         x 5 =         0           Column Totals:         140         (A)         320         (B)           Prevalence Index = B/A =         2.29           Hydrophytic Vegetation Indicators:
	FACW species         100         x 2 =         200           FAC species         40         x 3 =         120           FACU species         0         x 4 =         0           UPL species         0         x 5 =         0           Column Totals:         140         (A)         320         (B)           Prevalence Index = B/A =         2.29           Hydrophytic Vegetation Indicators:
	FAC species         40         x 3 =         120           FACU species         0         x 4 =         0           UPL species         0         x 5 =         0           Column Totals:         140         (A)         320         (B)           Prevalence Index = B/A =         2.29           Hydrophytic Vegetation Indicators:
	FAC species         40         x 3 =         120           FACU species         0         x 4 =         0           UPL species         0         x 5 =         0           Column Totals:         140         (A)         320         (B)           Prevalence Index = B/A =         2.29           Hydrophytic Vegetation Indicators:
	FACU species         0         x 4 =         0           UPL species         0         x 5 =         0           Column Totals:         140         (A)         320         (B)           Prevalence Index = B/A =         2.29           Hydrophytic Vegetation Indicators:
	UPL species         0         x 5 =         0           Column Totals:         140         (A)         320         (B)           Prevalence Index = B/A =         2.29           Hydrophytic Vegetation Indicators:
	Column Totals:         140         (A)         320         (B)           Prevalence Index = B/A =         2.29           Hydrophytic Vegetation Indicators:
	Prevalence Index = B/A = 2.29  Hydrophytic Vegetation Indicators:
	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophytic Vegetation
FACW	
FACW	X 2 - Dominance Test is >50%
	X 3 - Prevalence Index is ≤3.0 ¹
	4 - Morphological Adaptations ¹ (Provide supporting
	data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation ¹ (Explain)
	1 Indicators of hydric cail and watland hydrology must
	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
-	Definitions of Vegetation Strata:
-	•
	<ul> <li>Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> </ul>
	Continuate Woody plants less than 2 in DDII
	<ul> <li>Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> </ul>
	<ul> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> </ul>
	Woody vines – All woody vines greater than 3.28 ft in
	height.
	Hydrophytic
	- Vegetation
	_
	Present? Yes X No

SOIL Sampling Point W10-1W-CON

Profile Desci	ription: (Describe to Matrix	the de		<b>ument t</b> l x Featur		ator or co	onfirm the absence of	of indicators.)
(inches)	Color (moist)	%	Color (moist)	% realur	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 2/1	100	Color (molecy		.,,,,,			Silty, roots
12-20	10YR 4/1	70	10YR 4/6	30				Clay, prominent redox concentrations
12-20	101141		10114 4/0	30	<u>C</u>	<u>M</u>		Clay, prominent redox concentrations
			<del></del>					
¹ Type: C=Co	ncentration, D=Deple	etion, RI	M=Reduced Matrix, N	иS=Mas	ked San	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:							or Problematic Hydric Soils ³ :
Histosol (	· ·		Polyvalue Belo		ce (S8) (	LRR R,		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pedon (A2)		MLRA 149B	,				rairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surf					ucky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		High Chroma S					ue Below Surface (S8) (LRR K, L)
	Layers (A5) Below Dark Surface	(111)	Loamy Mucky			K N, L)		rk Surface (S9) (LRR K, L)
	rk Surface (A12)	(A11)	Loamy Gleyed Depleted Matri		r2)			nganese Masses (F12) ( <b>LRR K, L, R</b> ) nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	ucky Mineral (S1)		Redox Dark Su		6)			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	eyed Matrix (S4)		Depleted Dark					rent Material (F21)
	edox (S5)		Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		0)			Explain in Remarks)
Dark Surf				, _,				
³ Indicators of	hydronhytic vegetatic	on and s	wetland hydrology mi	ust he n	recent II	nlace diet	turbed or problematic.	
	ayer (if observed):	on and v	vetiand nydrology me	ust be p	ieseni, u	ilicoo ulot	turbed or problematic.	
Type:	-							
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No
Remarks:							•	
	n is revised from Norl 2015 Errata. (http://w\							CS Field Indicators of Hydric Soils,
version 7.0, 2	2015 Eliata. (Ilttp://ww	// WW.III CS	.usua.gov/internet/1	SE_DO	JUIVILINI	3/11/05 14	rzpz_031293.dock)	

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21						
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: W11-1U-CON						
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E						
Landform (hillside, terrace, etc.): None Local	relief (concave, convex, none): None Slope %: 2						
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA						
Soil Map Unit Name: Montgomery silty clay loam	NWI classification: NA						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)						
Are Vegetation X, Soil X, or Hydrology X significantly distur	<u> </u>						
Are Vegetation, Soil, or Hydrology naturally problems							
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         X         No           Wetland Hydrology Present?         Yes         No         X	Is the Sampled Area within a Wetland? Yes No _X If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)							
Disturbed vegetation/soil/hydrology due to agricultural use - soybean field,	recently cut.						
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves (I							
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1)  Hydrogen Sulfide Odor (							
Sediment Deposits (B2)  Oxidized Rhizospheres							
Drift Deposits (B3) Presence of Reduced In	<u> </u>						
	uction in Tilled Soils (C6) Geomorphic Position (D2)						
Iron Deposits (B5) Thin Muck Surface (C7)							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No X Depth (inches):	:						
Water Table Present? Yes No X Depth (inches):	:						
Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       No       X       Depth (inches):	: Wetland Hydrology Present? Yes No X						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:						
Remarks:							

#### **VEGETATION** – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	/0 00 401	орсоюз:	Olalus	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3				
1				Total Number of Dominant Species Across All Strata: 1 (B)
5				
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)		10101 0011		OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
				FAC species 0 x3 = 0
3.				FACU species 0 x 4 = 0
4.				UPL species 5 x 5 = 25
5				Column Totals: 5 (A) 25 (B)
6				Prevalence Index = B/A = 5.00
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		1016. 02.2.		2 - Dominance Test is >50%
1. Glycine max	5	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2				4 - Morphological Adaptations ¹ (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.		,		<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.		,		
11.		, -		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.		, -		
	5	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)	-	, -		
1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.		, -		
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		<del>-</del> -
Remarks: (Include photo numbers here or on a separ	rate sheet.)			1
Recently cut soybean field.				

Sampling Point: W11-1U-CON

SOIL Sampling Point W11-1U-CON

	ription: (Describe t	o the dep				tor or co	onfirm the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture	Remarks
0-12	10YR 2/1	70	Color (moist)		Туре	LUC	Texture	Silty Clay, mineral
12-20	10YR 6/2	65	10YR 6/8	30	С	M		Silty, prominent redox concentrations
			10YR 3/2	5		M		
								-
	ncentration, D=Deple	etion, RM	=Reduced Matrix, N	/IS=Mas	ked San	d Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil I Histosol			Polyvalue Belo	w Surfa	ca (S8) (I	DD D		for Problematic Hydric Soils ³ : luck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		ce (50) (i	LIXIX IX,		Prairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa		(LRR R	, MLRA 1		ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroger	n Sulfide (A4)		High Chroma S	Sands (S	311) ( <b>LR</b>	R K, L)	Polyval	ue Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		Loamy Mucky l	Mineral	(F1) ( <b>LR</b> I	R K, L)		ark Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			anganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matri		·C)			ont Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1) leyed Matrix (S4)		Redox Dark Su Depleted Dark					Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )  Irent Material (F21)
	edox (S5)		Redox Depress					nallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	`	-,			Explain in Remarks)
	face (S7)			. ,				,
³ Indicators of	hydrophytic vegetati	on and w	etland hydrology mi	iet ha ni	recent III	aloce diet	urhed or problematic	
	ayer (if observed):	on and w	otana nyarology me	aot bo pi	Coont, u	iledo diot	urbed or problematio	
Type:								
Depth (in	ches):						Hydric Soil Prese	ent? Yes <u>X</u> No
Remarks:								
	n is revised from Nor 2015 Errata. (http://w							RCS Field Indicators of Hydric Soils,
VC131011 7.0, 2	2010 Errata. (http://w	ww.mcs.c	asaa.gov/internet/1	JL_DO(	JOIVILIVI	0/11/03 14	2p2_001200.d00x)	

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21						
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: w11-1W-CON						
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E						
Landform (hillside, terrace, etc.): Depression L	Local relief (concave, convex, none): Concave Slope %: 3						
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA						
Soil Map Unit Name: Montgomery silty clay loam	NWI classification: T3/E2Ka						
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes X No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrologysignificantly of	disturbed? Are "Normal Circumstances" present? Yes X No						
Are Vegetation, Soil, or Hydrologynaturally prob	blematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present? Yes X No	within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: W11						
Remarks: (Explain alternative procedures here or in a separate repor Wetland depression adjacent to soybean field.	L.)						
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leav							
High Water Table (A2) Aquatic Fauna (B13)							
Saturation (A3)Marl Deposits (B15							
Water Marks (B1) Hydrogen Sulfide C							
<del></del> -	eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
I <del></del> · · · · · · · —	e of Reduced Iron (C4)  Stunted or Stressed Plants (D1)  Stunted or Stressed Plants (D2)  Y. Goomerphic Position (D2)						
Algal Mat or Crust (B4)Recent Iron Reduct Iron Deposits (B5) Thin Muck Surface	n Reduction in Tilled Soils (C6)  Surface (C7)  X Geomorphic Position (D2)  Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)  Other (Explain in R							
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)						
Field Observations:	<u> </u>						
	ches):						
Water Table Present? Yes No X Depth (inc	ches):						
	ches): Wetland Hydrology Present? Yes X No						
(includes capillary fringe)	, <u> </u>						
Describe Recorded Data (stream gauge, monitoring well, aerial photo-	s, previous inspections), if available:						
Remarks:							

#### **VEGETATION** – Use scientific names of plants.

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Populus deltoides	5	Yes	FAC	
2.			1710	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
4.				Total Number of Dominant Species Across All Strata: 5 (B)
E				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	5	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )		•		OBL species 0 x 1 = 0
1. Salix interior	15	Yes	FACW	FACW species 120 x 2 = 240
2. Fraxinus pennsylvanica	5	Yes	FACW	FAC species 10 x 3 = 30
3. Rhamnus cathartica	5	Yes	FAC	FACU species 0 x 4 = 0
4.		·		UPL species 0 x 5 = 0
5.				Column Totals: 130 (A) 270 (B)
6.		·		Prevalence Index = B/A = 2.08
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%
1. Phalaris arundinacea	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2.		·		4 - Morphological Adaptations ¹ (Provide supporting
3.				data in Remarks or on a separate sheet)
4.		· <u></u>		Problematic Hydrophytic Vegetation ¹ (Explain)
5.		·		Indicators of hydric soil and wetland hydrology must
6.		·		be present, unless disturbed or problematic.
7.		·		Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.		·		diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic Vegetation
4				Present? Yes X No No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: W11-1W-CON

SOIL Sampling Point W11-1W-CON

Profile Description: (Describe to the depth needed to document the indicator or co Depth Matrix Redox Features			onfirm the absence o	of indicators.)				
Depth (inches)	Matrix	%	Color (moist)	Featur %		Loc ²	Texture	Remarks
(inches) 0-4	Color (moist) 10YR 2/2	100	Color (Illoist)	70	Type ¹	Loc	Mucky Loam/Clay	Silty Clay, mucky, mineral, roots
4-20	10YR 2/1	100					Mucky Loam/Clay	Silty Clay, mucky, mineral, roots
								Only Only, maloky, minoral, roote
1- 0.0		<del></del>					2	
'Type: C=Co	ncentration, D=Depl	etion, RN	/I=Reduced Matrix, M	IS=Mas	ked San	d Grains		PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils ³ :
Black His Hydroger Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped	ipedon (A2)	· (A11)	Polyvalue Belo MLRA 149B) Thin Dark Surfa High Chroma S X Loamy Mucky N Loamy Gleyed Depleted Matrix Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LRI	ace (S9) ands (S Mineral Matrix ( (F3) rface (F Surface	) (LRR R 611) (LRI (F1) (LRI F2) 6) (F7)	, MLRA R K, L)	Coast P 5 cm Mi Polyvalu Thin Da Iron-Ma Piedmo Mesic S Red Pai	uck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) nganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B) podic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) allow Dark Surface (F22) Explain in Remarks)
		on and v	etland hydrology mu	st be pi	resent, ui	nless dis	turbed or problematic.	
	ayer (if observed):							
Type: _ Depth (in	iches):						Hydric Soil Prese	nt? Yes X No
	m is revised from Noi 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21					
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: W12-1U-CON					
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E					
Landform (hillside, terrace, etc.): None Local	relief (concave, convex, none): None Slope %: 2					
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA					
Soil Map Unit Name: Hebron loam	NWI classification: NA					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)					
Are Vegetation X, Soil X, or Hydrology X significantly disturb						
Are Vegetation, Soil, or Hydrology naturally problems						
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area					
Hydric Soil Present?  Yes No X	within a Wetland? Yes No X					
Hydric Soil Present?  Wetland Hydrology Present?  Yes  No X  No X	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.) Hay field, recently cut.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leaves (I	B9) Drainage Patterns (B10)					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (						
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th						
Drift Deposits (B3) Presence of Reduced Iro						
	n in Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5) Thin Muck Surface (C7)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       No       X       Depth (inches):						
Water Table Present? Yes No X Depth (inches):						
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No _X					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Remarks:						

# $\label{eq:VEGETATION} \textbf{VEGETATION} - \textbf{Use scientific names of plants}.$

olants. Absolute	Dominant	Indicator	
% Cover	Species?	Status	Dominance Test worksheet:
			Number of Deminant Chaping
-			Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
			Total Number of Dominant Species Across All Strata: 2 (B)
			Species Across Ali Strata.
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 0.0% (A/B)
			Prevalence Index worksheet:
	=Total Cover		Total % Cover of: Multiply by:
)			OBL species 0 x 1 = 0
			FACW species 0 x 2 = 0
			FAC species 0 x 3 = 0
			FACU species 55 x 4 = 220
			UPL species 50 x 5 = 250
- ——			
- ——			Prevalence Index = B/A = 4.48
			Hydrophytic Vegetation Indicators:
	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
50	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
30	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supportin
15	No	FACU	data in Remarks or on a separate sheet)
10	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
- —			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of height.
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
•			Harb All barbassasia (non woody) planta regardles
105	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
)			
,			<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
			neight.
- ——			Hydrophytic
			Vegetation
			Present? Yes No X
	=Total Cover		<u> </u>
	% Cover	## Cover   Species?	## Cover   Species?   Status

SOIL Sampling Point W12-1U-CON

	•	to the dep				tor or co	onfirm the absence of indicators.)
Depth	Matrix			k Featur	-	- 2	
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture Remarks
0-4	10YR 2/1	100					Silty, roots
4-20	10YR 3/1	100					Silty
	-						
			_				
			_				
¹Type: C=Co	oncentration, D=Depl	etion RM	=Reduced Matrix N	/S=Mas	ked Sand	d Grains	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I							Indicators for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R.	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	ipedon (A2)		MLRA 149B		( ) (	•	Coast Prairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		(LRR R	MLRA 1	
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky I				Thin Dark Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed			,,	Iron-Manganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	()	Depleted Matri		/		Piedmont Floodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su		6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)
	edox (S5)		Redox Depress				Very Shallow Dark Surface (F22)
	Matrix (S6)		 Marl (F10) ( <b>LR</b>	•	,		Other (Explain in Remarks)
	face (S7)			,			
	, ,						
³ Indicators of	hydrophytic vegetati	ion and w	etland hydrology mu	ıst be pı	esent, ur	nless dist	turbed or problematic.
Restrictive L	ayer (if observed):						
Type:	-						
Depth (in	iches):						Hydric Soil Present? Yes No _X_
Remarks:							
This data for	m is revised from No	rthcentral	and Northeast Regi	onal Su	pplement	t Version	2.0 to include the NRCS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	ww.nrcs.u	usda.gov/Internet/F	SE_DOO	CUMENT	S/nrcs14	12p2_051293.docx)

Project/Site: Emerald Park Landfill Western Expansion	City/County: Waukesha Sampling Date: 9/28/21					
Applicant/Owner: Emeral Park Landfill, LLC	State: WI Sampling Point: w12-1w-con					
Investigator(s): LS & SAL	Section, Township, Range: S36 T5N R20E					
Landform (hillside, terrace, etc.): Depression Local r	relief (concave, convex, none): Concave Slope %: 2					
Subregion (LRR or MLRA): LRR K Lat: NA	Long: NA Datum: NA					
Soil Map Unit Name: Saylesville silt loam	NWI classification: NA					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly disturb	<del></del>					
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present?  Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: W12					
Remarks: (Explain alternative procedures here or in a separate report.)  Wetland depression adjacent to hay field.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leaves (E						
High Water Table (A2)  Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1)  Hydrogen Sulfide Odor (						
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th						
Drift Deposits (B3) Presence of Reduced Iro	• , , , , , , , , , , , , , , , , , , ,					
	uction in Tilled Soils (C6) X Geomorphic Position (D2)					
Iron Deposits (B5) — Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       No       X       Depth (inches):						
Water Table Present? Yes No X Depth (inches):						
Saturation Present? Yes No _X Depth (inches):	Wetland Hydrology Present? Yes X No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Remarks:						
Remarks:						

#### **VEGETATION** – Use scientific names of plants.

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Salix babylonica	60	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:5(A)		
2.						
3				Total Number of Dominant		
4				Species Across All Strata: 5 (B)		
5				Percent of Dominant Species		
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)		
7				Prevalence Index worksheet:		
	60	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0		
1. Fraxinus pennsylvanica	15 	Yes	FACW	FACW species 185 x 2 = 370		
2. Rhamnus cathartica	5	Yes	FAC	FAC species 15 x 3 = 45		
3.				FACU species 0 x 4 = 0		
4.				UPL species 0 x 5 = 0		
5.		·		Column Totals: 200 (A) 415 (B)		
6				Prevalence Index = B/A = 2.08		
7				Hydrophytic Vegetation Indicators:		
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%		
1. Phalaris arundinacea	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹		
2. Aster lanceolatus	5	No	FACW	4 - Morphological Adaptations (Provide supporting		
3. Solidago gigantea	5	No	FACW	data in Remarks or on a separate sheet)		
4.		. <u></u>		Problematic Hydrophytic Vegetation ¹ (Explain)		
5		. <u></u>		¹ Indicators of hydric soil and wetland hydrology must		
6				be present, unless disturbed or problematic.		
7		. <u></u>		Definitions of Vegetation Strata:		
8		. <u></u>		Tree – Woody plants 3 in. (7.6 cm) or more in		
9.		. <u></u>		diameter at breast height (DBH), regardless of height.		
10				Sapling/shrub – Woody plants less than 3 in. DBH		
11				and greater than or equal to 3.28 ft (1 m) tall.		
12				<b>Herb</b> – All herbaceous (non-woody) plants, regardless		
	110	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in		
1. Vitis riparia	10	Yes	FAC	height.		
2.				Hydrophytic		
3.				Vegetation		
4				Present?		
	10	=Total Cover				
Remarks: (Include photo numbers here or on a separ	ate sheet.)					

Sampling Point: W12-1W-CON

SOIL Sampling Point W12-1W-CON

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix Redox Features			-		_			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type	Loc ²	Texture	Remarks	
0-6	10YR 2/1	100						Silty, roots	
6-12	10YR 4/1	95	10YR 6/8	5	<u>C</u>	<u>M</u>		Clay, prominent redox concentrations, roots	
12-20	10YR 5/1	70	10YR 6/8	30	<u>C</u>	<u>M</u>		Clay, roots	
				_					
	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked San	d Grains.		PL=Pore Lining, M=Matrix.	
Hydric Soil I								for Problematic Hydric Soils ³ :	
Histosol	` '		Polyvalue Belo		ce (S8) (	LRR R,		Muck (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		MLRA 149B	•	. // DD D	MI DA -		Prairie Redox (A16) (LRR K, L, R)	
Black His			Thin Dark Surf				· ·	Mucky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4) Layers (A5)	•	High Chroma S Loamy Mucky	-				lue Below Surface (S8) ( <b>LRR K, L</b> ) ark Surface (S9) ( <b>LRR K, L</b> )	
	l Below Dark Surface	(Δ11)	Loamy Gleyed			K K, L)			
		(A11)			F2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  X Depleted Matrix (F3)  Redox Dark Surface (F6)						Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	leyed Matrix (S4)							arent Material (F21)	
								hallow Dark Surface (F22)	
	Sandy Redox (S5)					Other (Explain in Remarks)			
	Dark Surface (S7)					Other (Explain in Remarks)			
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. <b>Restrictive Layer (if observed):</b>									
Type:	-								
Depth (in	nches):						Hydric Soil Pres	ent? Yes <u>X</u> No	
Remarks: This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)									
version 7.0, 7	2015 Elfata. (Ilttp://w	ww.nics.c	isda.gov/internet/F	3E_DO(	JUIVIENT	3/11105 14	2p2_031293.d0cx)		

# APPENDIX B

WETLAND PROJECT AREA PHOTOGRAPHIC LOG



W1-1U confirmation - Non-hydric soil



W1-1W confirmation - Hydric soil



W1-1U confirmation - Upland vegetation and landscape position



W1-1W confirmation – Wetland vegetation



W1-5U confirmation - Upland vegetation and landscape position



W1-5W confirmation - Wetland-upland boundary along soybean field



W1-5W confirmation - Hydric soil



W1-6W confirmation - Wetland-upland boundary within soybean field



W1-8U confirmation - Upland vegetation and landscape position



W2-1U confirmation – Non-hydric soil



W1-8W confirmation - Wetland-upland boundary within soybean field



W2-1U confirmation - Upland vegetation and landscape position



W2-1W confirmation - Hydric soil



W2-3U confirmation – Non-hydric soil



W2-1W confirmation - Wetland vegetation in depression adjacent to soybean field



W2-3U confirmation - landscape position and boundary with cattail dominant wetland



W2-3U confirmation - Upland vegetation and landscape position



W2-4W confirmation - Wetland vegetation in depression and boundary with upland



W2-4W confirmation - Hydric soil



W2-4W confirmation - Wetland vegetation in depression



W2-5U confirmation – Non hydric soil



W2-5W confirmation - Hydric Soil



W2-5U confirmation - Upland vegetation and hydrology



W2-5W confirmation - Sedge within depression at the edge of soybean field



W2-8U confirmation - Upland vegetation, hydric soil and landscape position



W2-9W confirmation - Hydric soil



W2-9U confirmation - Upland vegetation, hydric soil, wetland boundary and landscape position



W2-9W confirmation - Wetland vegetation in depression adjacent to soybean field



W3-1W confirmation - Hydric Soil



W3-1W confirmation - Wetland vegetation in depression



W3-1W confirmation - Wetland adjacent to access roads



W4-1U confirmation – Hydric soil



W4-1U confirmation - Upland vegetation and landscape position within a dry sedimentation basin



 $\,$  W4-1W confirmation - Wetland vegetation and landscape position within a depression in the dry sedimentation basin



W4-1W confirmation - Hydric soil



Wetland 5/6 - Upland vegetation and landscape position (1)



Wetland 5/6 - Upland vegetation and landscape position (2)



W7-1U confirmation - Upland vegetation and landscape position



W7-1U confirmation - Hydric soil



W7-1W confirmation - Hydric soil (dark surface above)



W7-1W confirmation - Hydric soil (depleted matrix)



W7-1W confirmation - Wetland-upland boundary with soybean field



W7-1W confirmation - Wetland vegetation in depression adjacent to soybean field



W8-1U confirmation - Hydric soil



W8-1U confirmation - Landscape position outside of depression



W8-1W confirmation - Wetland depression in soybean field with ruts



W8-1W confirmation - Hydric soil



W9-1U confirmation - Hydric soil



W9-1U confirmation - Upland vegetation and landscape position



W10-1U confirmation - Upland vegetation, hydric soil and landscape position



W9-1W confirmation - Wetland vegetation, Hydric Soil and landscape position



W10-1W confirmation - Hydric soil



W10-1W confirmation - Wetland vegetation & upland boundary with soybean field



W11-1W confirmation - Wetland vegetation, Hydric Soil and landscape position



W11-1U confirmation - Upland vegetation, Hydric Soil and landscape position



W12-1U confirmation – Non-hydric soil



W12-1U confirmation - Upland vegetation & landscape position



W12-1W confirmation - Wetland vegetation in depression adjacent to hayfield



W12-1W confirmation - Hydric soil



Dry ditch East of W2-4W



Dry ditch East of W2-4W



Main ditch North of the Project Area



Main ditch North of the Project Area