

Project/Site: Applicant:		ark Landfill - Wester Disposal Services, I		sion			Stantec Project #:	193702557		Date: County:	10/23/14 Waukesha
Investigator #1:		· ·		Investi	gator #2:	Jaron Ty	/lock			State:	Wisconsin
Soil Unit:	Montgomei	y silty clay loam				NV	/I/WWI Classification:	None		Wetland ID:	W2A
Landform:	Hill Slope			Loc	al Relief:	Concave	e			Sample Point:	W2-8w
Slope (%):	1-2	Latitude:			ongitude:			Datum:	N/A	Community ID:	Farmed Wetland
Are climatic/hyd	drologic cond	litions on the site typ	cical for I	his time	of year?	(If no, explai			No	Section:	36
Are Vegetation	☑, Soil ☑,	or Hydrology   sign	nificantly	disturbe	d?		Are normal circumsta	ances present	?	Township:	5 N
Are Vegetation	□, Soil □,	or Hydrology 🛘 nat	urally pro	oblematio	5?		☐ Yes	☑No		Range:	20 E
<b>SUMMARY OF</b>	FINDINGS										
Hydrophytic Ve		sent?	-	☑ Yes	□ No			Hydric Soils			
Wetland Hydrol	logy Present	?		☑ Yes	□ No			Is This Samp	Ing Point	Within A Wetla	and?   ✓ Yes   No
Remarks:	Antecedent	t moisture conditions	s normal	based o	n WETS	analysis.	Point located in a rec	ently plowed a	agricultural	field with pote	ntial hydrological
	manipulatio	ons. Normal circums	tances a	ssumed	not prese	ent. Poin	ts on transect going S	E from this p	int indicate	e gradual upla	nd transition based on
	primary hyd	drology indicators.									
HYDROLOGY											
	ology Indica	itors (Check here if	indicato	re are no	torocont	EA.		_			
Primary		ILUIS (CHECK HEIE	mulcato	S ale IIO	hiesem	□ ):			Secondary:		
	A1 - Surface	Water			B9 - Wate	r-Stained I	Leaves			E6 - Surface So	il Cracks
	A2 - High Wa				B13 - Aqu					E10 - Drainage	
	A3 - Saturation				B14 - True					C2 - Dry-Seaso	
	B1 - Water M				C1 - Hydro		de Odor spheres on Living Roots			C8 - Crayfish Bu	urrows Visible on Aerial Imagery
	B2 - Sedimer B3 - Drift Der						duced Iron			D1 - Stunted or	
	B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorphi	
	B5 - Iron Dep	osits			C7 - Thin	Muck Surfa	ace			□5 - FAC-Neutr	
		on Visible on Aerial Ima			D9 - Gaug						
	B8 - Sparsely	Vegetated Concave S	urtace	Ш	Other (Ex	plain in Re	marks)				
Field Observat		2.5									
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hyd	drology Pr	esent?	Yes □ No
Water Table Pr		☑ Yes □ No	Depth:	9	(in.)			•		_	
Saturation Pres	ent?	☑ Yes ☐ No	Depth:	0	(in.)						
Describe Record	ded Data (str	eam gauge, monitorir	ng well, a	erial phot	os. previo	us inspec	tions), if available:		Annual Crop	Slide Review	
Remarks:	FSA slides	indicates wetlands i	in this lo				ology appears perched	d. Saturated			-4 inches, were not
Remarks:		indicates wetlands i etween 4-7 inches,		cation. S	ome wetl	and hydro	ology appears perched	d. Saturated			-4 inches, were not
Remarks:				cation. S	ome wetl	and hydro	ology appears perched	d. Saturated			-4 inches, were not
				cation. S	ome wetl	and hydro	ology appears perched	d. Saturated			-4 inches, were not
SOILS	saturated b	etween 4-7 inches,	with satu	cation. S	ome wetl	and hydro t 7 inche	ology appears perched s and below.				4 inches, were not
SOILS Map Unit Name	saturated b	etween 4-7 inches,  Montgomery silty cl	with satu	cation. S	ome wetl	and hydro t 7 inche	ology appears perched				4 inches, were not
SOILS  Map Unit Name Taxonomy (Sub	saturated be:	Montgomery silty cl Vertic Endoaquolls	with satu	cation. S iration re	ome wetl	and hydro t 7 inches	ology appears percheds and below. eries Drainage Class:	very poorly	soils occuri	ed between 0-	4 inches, were not
SOILS Map Unit Name Taxonomy (Sub	saturated be: e: e: e: ogroup): otion (Describe to the	Montgomery silty cl Vertic Endoaquolls	with satu	cation. S uration re	ome wetl	and hydro t 7 inches	ology appears percheds and below. eries Drainage Class:	very poorly  =Covered/Coated Sand G	soils occuri	ed between 0-	
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top	saturated b  s: ogroup): otion (Describe to the Bottom)	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indic	ay loam	cation. Suration re	ome wetleturning a	and hydro t 7 inches	ology appears percheds and below.  eries Drainage Class:  1. D=Depletion, RM=Reduced Matrix, CS-Red	very poorly  =Covered/Coated Sand Gox Features	SOIIS OCCUR	ed between 0-	Texture
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	saturated b s: ogroup): otion (Describe to the sound of t	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indic Horizon	ay loam	cation. S uration re the absence of in Matrix (Moist)	ome wetlerturning a	and hydrot 7 inches	ology appears percheds and below.  eries Drainage Class:  n. D=Depletion, RM=Reduced Matrix, CS- Red Color (Moist)	very poorly  =Covered/Coated Sand G lox Features %	soils occurn	Pore Lining, M=Matrix)  Location	Texture (e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: ogroup): btion (Describe to the Depth 12	Montgomery silty cl Vertic Endoaquolls the depth needed to document the indice Horizon 1	ay loam cator or confirm to Color 10YR	the absence of in Matrix (Moist)	ome wetleturning a	and hydrot 7 inches	ology appears percheds and below.  eries Drainage Class:  1, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	very poorly  =Covered/Coated Sand G lox Features  %	rains; Location: PL=	Pore Lining, M=Matrix)  Location	Texture (e.g. clay, sand, loam) silty clay loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	e: Dgroup): Dtion (Describe to ti  Bottom Depth 12 24	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indic Horizon 1	ay loam Cator or confirm to Color 10YR 10YR	the absence of in Matrix (Moist) 3/1 5/1	ome wetleturning a midicators.) (Type:	and hydret 7 inches  S  C=Concentration  10YR	ology appears percheds and below.  eries Drainage Class:  n. D=Depletion, RM=Reduced Matrix, CS- Red Color (Moist) 5/6	very poorly  =Covered/Coated Sand G tox Features  % 20	rains; Location: PL=  Type   C	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay
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SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 12 NRCS Hydric	saturated b  group):  tion (Describe to it  Bottom Depth 12 24 Soil Field In  A1- Histosol A2 - Histic Ep	Montgomery silty cl Vertic Endoaquolls the depth needed to document the indice Horizon 1 2 dicators (check here	ay loam cator or confirm to the cator or cato	the absence of ir Matrix (Moist)  3/1  5/1  cators are	ome wetl- sturning a  dicators.) (Type:  % 100 80 e not pres \$4 - Sand \$5 - Sand	SC=Concentration  10YR	ology appears perchects and below.  eries Drainage Class:	very poorly  =Covered/Coated Sand G lox Features  % 20 Indicators	rains; Location: PL=  Type C 5 for Problem A16 - Coast S7 - Dark S6	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay
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SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 12 NRCS Hydric	saturated b second seco	Montgomery silty cl Vertic Endoaquolls Vertic Endoaquolls Horizon  1 2 dicators (check here spipedon stic n Sulfide	ay loam cator or confirm to the cator or cato	he absence of ir Matrix (Moist) 3/1 5/1 cators are	ome wetl- sturning a  dicators.) (Type:  % 100 80 e not pres \$4 - Sand \$5 - Sand	and hydret 7 inches  S  C=Concentration  10YR    10YR    y Gleyed I y Redox oed Matrix by Muck Min y Min	ology appears perchects and below.  eries Drainage Class:  Red Color (Moist)   5/6       Matrix	very poorly  =Covered/Coated Sand G lox Features  % 20 Indicators	rains; Location: PL=  Type  C s for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay
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SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 12 NRCS Hydric	saturated b  group):  tion (Describe to II  Bottom Depth 12 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete	Montgomery silty cl Vertic Endoaquolls The depth needed to document the indice Horizon  1 2 Idicators (check here Dipedon stic en Sulfide di Layers Luck and Below Dark Surface	ay loam cator or confirm to the cator or cato	the absence of ir Matrix (Moist)  3/1  5/1  cators are	wetlaturning a sturning a sturnin	c=Concentration  10YR   10YR    10YR    10YR    Sent	ology appears perchects and below.  eries Drainage Class:  Red Color (Moist)   5/6     Matrix  neral Matrix  face	very poorly  =Covered/Coated Sand G lox Features  % 20 Indicators	rains; Location: PL=  Type  C s for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Pore Lining, M=Matrix)  Location  M	Texture (e.g. clay, sand, loam) silty clay loam clay
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SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	saturated b  strongroup):  tion (Describe to II  Bottom Depth 12 24 Soil Field In A1- Histosol A2- Histic Ep A3- Black Hi A4- Hydroge A5- Stratifier A10- 2 cm W A11- Deplete A12- Thick E S1- Sandy M S3- 5 cm Mb	Montgomery silty cl Vertic Endoaquolls  Horizon  1  2  dicators (check her bipedon stic en Sulfide d Layers luck ed Below Dark Surface buck Mineral cky Peat or Peat	ay loam cator or confirm to the cator or cato	the absence of in Matrix (Moist)  3/1  5/1  cators are	wetlaturning a  dicators.) (Type:  % 100 80 en not press \$4 - Sand \$5 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	and hydret to the state of the	ology appears perchects and below.  eries Drainage Class:  Red Color (Moist)   5/6      Watrix  neral Matrix  face Surface	very poorly  =Covered/Coated Sand G lox Features  % 20 Indicators  Indicators of hydrophy	rains; Location: PL=  Type C for Problen A16 - Coast F12 - Iron-N TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location  M	Texture (e.g. clay, sand, loam) sity clay loam clay es urface
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	Saturated b  Signoup):  Diffun (Describe to III of the state of the st	Montgomery silty cl Vertic Endoaquolls  Horizon  1  2  dicators (check her bipedon stic en Sulfide d Layers luck ed Below Dark Surface buck Mineral cky Peat or Peat	ay loam cator or confirm to the cator or cato	the absence of ir Matrix (Moist)  3/1  5/1    cators are	wetlaturning a  dicators.) (Type:  % 100 80 en not press \$4 - Sand \$5 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	and hydret to the state of the	ology appears perchects and below.  eries Drainage Class:  Red Color (Moist)   5/6      Watrix  neral Matrix  face Surface	very poorly	rains; Location: PL=  Type C for Problen A16 - Coast F12 - Iron-N TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location  M	Texture (e.g. clay, sand, loam) silty clay loam clay
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 12 NRCS Hydric	saturated b  group):  tion (Describe to II  Bottom Depth 12 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mt  Type:	Montgomery silty cl Vertic Endoaquolls the depth needed to document the indice Horizon  1 2 Idicators (check here Dipedon stic en Sulfide di Layers luck ed Below Dark Surface bark Surface fluck Mineral icky Peat or Peat	ay loam Color 10YR 10YR	cation. Suration results to the absence of in Matrix (Moist)  3/1  5/1  cators are	wetlaturning a sturning a sturnin	and hydret 7 inches  S  C=Concentration  10YR	cology appears perchects and below.  eries Drainage Class:  Red Color (Moist)   5/6      Matrix  meral Matrix  face Surface ions	very poorly  =Covered/Coated Sand Good Features  % 20 Indicators  Indicators of hydrophy  Hydric Soil	rains; Location: PL=  Type C	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay es urface
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 12 NRCS Hydric  Restrictive Layer (If Observed)	saturated b  sigroup):  stion (Describe to II  Bottom Depth 12 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mt Type:  Sample poi	Montgomery silty cl Vertic Endoaquolls the depth needed to document the indice Horizon  1 2 dicators (check here to pipedon stic en Sulfide di Layers luck ed Below Dark Surface bark Surface fluck Mineral icky Peat or Peat N/A int existed in a tilled	ay loam Color Color 10YR 10YR re if indic	cation. Suration results to the absence of in Matrix (Moist)  3/1  5/1  cators are	wetlaturning a  dicators.) (Type:  % 100 80 e not pres s4 - Sand S5 - Sand S6 - Stript F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	C=Concentration  10YR   10YR    Sent	ology appears perchects and below.  eries Drainage Class:	very poorly  "Covered/Coated Sand Good Features"  % 20 Indicators  Indicators of hydrophy  Hydric Soil Id to thickening	rains; Location: PL=  Type C	Pore Lining, M=Matrix)  Location  M	Texture (e.g. clay, sand, loam) silty clay loam clay es urface  Persent, unless disturbed or problematic.  Yes  \Boxed{No} No rely was met. Likely
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 12 NRCS Hydric  Restrictive Layer (If Observed)	saturated b  strongroup):  tion (Describe to II  Bottom Depth  12  24     Soil Field In  A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M  A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML  Type:  Sample poi met F3 in ti	Montgomery silty cl Vertic Endoaquolls The depth needed to document the indice Horizon  1 2 dicators (check here to pipedon stic en Sulfide di Lalyers luck ded Below Dark Surface bark Surface fluck Mineral lucky Peat or Peat N/A int existed in a tilled the past as well. And	ay loam Color 10YR 10YR re if indic	cation. Suration results the absence of in Matrix (Moist)  3/1  5/1    cators are	wetlaturning a sturning a sturnin	and hydret to the state of the	ology appears perchects and below.  eries Drainage Class:	very poorly  -Covered/Coated Sand Good Features  % 20 Indicators  Indicators of hydrophy  Hydric Soil Id to thickening W2-8w to deti	rains; Location: PL=  Type C	Pore Lining, M=Matrix)  Location  M	Texture (e.g. clay, sand, loam) silty clay loam clay es urface

Sample Point W2-8w



Emerald Park Landfill - Western Expansion

Project/Site:

### WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID:

W2A

**VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: 10. OBL spp. x 1 = FACW spp. Total Cover = 0 30 x 2 = 60 x 3 = FAC spp. 15 45 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 0 0 1. UPL spp. 0 x 5= 2. 3. Total 45 (A) 105 4. 5. Prevalence Index = B/A = 2.333 6. 7. **Hydrophytic Vegetation Indicators:** 8. 9. Rapid Test for Hydrophytic Vegetation ☐ Yes ☑ No 10. --\_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = 0 ✓ Yes □ No Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* ECHINOCHLOA CRUS-GALLI FACW 1. 30 \* Indicators of hydric soil and wetland hydrology must be 2. Agrostis hyemalis FAC 15 present, unless disturbed or problematic. 3. --4. **Definitions of Vegetation Strata:** --5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 45 Woody Vine Stratum (Plot size: 30 ft radius) 1. 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = 0 Sample point is located in a low quality farmed wetland, location has been greatly disturbed due to vegetation selection / removal and recent soil Remarks: tilling. Concentration of annual wetland weeds greater in the part of farmed W-2 than in farmed areas outside W-2.

#### Additional Remarks:

I	Wetland primarily determined on the basis of water table depth and FSA slide review.
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Project/Site:	Emerald Pa	ark Landfill - Wester	n Expan	sion			Stantec Project #:	193702557	,	Date:	10/23/14
Applicant:		Disposal Services, I					•			County:	Waukesha
Investigator #1:		The second secon		Invest	igator #2:	Jaron T	v <b>l</b> ock			State:	Wisconsin
Soil Unit:	Saylesville						VI/WWI Classification:	N/A		Wetland ID:	Adj to W2A
Landform:	Hill Slope			Loc	cal Relief:					Sample Point:	•
Slope (%):	0-2	Latitude:	N/A		ongitude:			Datum:	N/A		Agricultural Field
		litions on the site typ					m in remarks)	☑ Yes □		Section:	36
		or Hydrology 🗆 sig				11.112.5.0	Are normal circumsta			Township:	5 N
		or Hydrology 🗆 nat					□ Yes	☑No		Range:	20 E
SUMMARY OF		of Flydrology 12 mai	dically pi	opicinos:	9 1		2 100	2,10		rtange.	20 L
Hydrophytic Ve		nont?	_	- Vec	- No			Hydric Soils	Dropont?		□ Voc □ No
					□ No					Alithin A \Aloth	☐ Yes ☑ No
Wetland Hydrol	ogy Present				■ No		Chains Impuded to to a			Within A Wetla	
Remarks:					IN WEIS	analysis	Point located in an ap	gricultural nei	with poter	itiai nyarologia	cai manipulations.
	Normal circ	cumstances assume	d not bu	esent							
HYDROLOGY											
Wetland Hydro	ology Indica	tors (Check here if	indicato	rs are no	t present	Fi):					
Primary		tere (encon nere n	maiodio		, procom	L/.			Secondary:		
	A1 - Surface	Water			B9 - Wate	r-Stained	Leaves			E6 - Surface So	oil Cracks
	A2 - High Wa				B13 - Aqu					E10 - Drainage	
	A3 - Saturation				B14 - True					C2 - Dry-Seaso	
	B1 - Water M				C1 - Hydro					C8 - Crayfish B	
	B2 - Sedimer						spheres on Living Roots educed Iron				Visible on Aerial Imagery Stressed Plants
	B3 - Drift Dep B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorph	
	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neutr	
		on Visible on Aerial Ima	agery		D9 - Gaug					20 17.0 11041	a. 7001
		Vegetated Concave S			Other (Ex						
Field Observat	ions:										
Surface Water		☐ Yes ☑ No	Depth:		(in.)					1000	
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent? 🗆	]Yes ☑ No
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)						
					, ,						
Describe Record	ed Data (stre	eam gauge, monitorir	ng well, a	erial phot	os, previo	us insped	rtions) if available:		Annual Cror	Slide Review	
							<u> </u>				
Remarks:	Passes FA	C-Neutral only base	d on nor	n-domina			A slides indicated upla	ands at this po			and south.
Remarks:	Passes FA	C-Neutral only base	d on nor	n-domina			<u> </u>	ands at this po			and south.
Remarks: SOILS	Passes FA	C-Neutral only base	d on nor	n-domina			<u> </u>	ands at this po			and south.
SOILS		•		n-domina		iker FS	A slides indicated upla		oint and goi		and south.
SOILS Map Unit Name	:	Saylesville silt loam		n-domina		iker FS	<u> </u>		oint and goi		and south.
SOILS Map Unit Name Taxonomy (Sub	: group):	Saylesville silt loam Typic Hapludalfs	1		nt tiebrea	iker. FS	A slides indicated upla Series Drainage Class:	: moderately v	oint and goi	ng west, north	and south.
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SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric	group): tion (Describe to It  Bottom Depth 15 24 Soil Field In A1- Histosol A2 - Histic Ep	Saylesville silt loam Typic Hapludalfs the depth needed to document the indice Horizon  1 2 dicators (check he objedon stic	Color 10YR 10YR	Matrix (Moist)  3/1  5/1      cators an	mdicators.) (Type:  % 100 55 S4 - Sand S5 - Sand	C=Concentration  10YR  sent	A slides indicated upla  Series Drainage Class:  n, D=Depletion, RM=Reduced Matrix, CS  Rec  Color (Moist)   5/6	moderately v  secovered/Coated Sand of dox Features  % 45 Indicators	well to well  Grains; Location: PL=  Type   C    s for Problen  A16 - Coast  S7 - Dark St  F12 - Iron-M	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay es
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric:	group): tion (Describe to It Bottom Depth 15 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Saylesville silt Ioam Typic Hapludalfs  the depth needed to document the indice  Horizon  1 2 dicators (check he oppedon stic in Sulfide at Layers	Color 10YR 10YR	Matrix (Moist) 3/1 5/1	mdicators.) (Type:  % 100 55 e not pres \$4 - Sand \$5 - Sand \$5 - Stripp \$6 - Stripp \$71 - Loam \$72 - Loam	C=Concentration  10YR  10YR  y Gleyed y Redox peed Matrix by Muck Miny Gleyed Miny Gleyed by Gleyed by Gleyed Miny Gleyed	A slides indicated upla  Series Drainage Class:  n, D=Depletion, RM=Reduced Matrix, CS  Rec  Color (Moist)   5/6	: moderately \(\frac{1}{2}\) :=Covered/Coated Sand of the Covered/Coated Sand of the Covered/Coated Sand of the Covered/Coated Sand of the Covered	well to well  Type  C s for Problen A16 - Coast S7 - Dark S0 Tf12 - Very	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay es
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric	group): tion (Describe to It  Bottom Depth 15 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratiffied A10 - 2 cm M	Saylesville silt Ioam Typic Hapludalfs he depth needed to document the indice Horizon  1 2 dicators (check he objeedon stic no Sulfide of Layers luck	Color 10YR 10YR	Matrix (Moist)  3/1  5/1    cators an	mdicators.) (Type:  % 100 55 en not press \$4 - Sand \$5 - Sand \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple	C=Concentration  10YR   10YR   y Gleyed y Redox oed Matrix y Gleyed the Matrix of September 1998 September 2019 Septembe	A slides indicated upla  Series Drainage Class:  n, D=Depletion, RM=Reduced Matrix, CS  Rec  Color (Moist)   5/6      Watrix  ineral  Matrix  C	: moderately \(\frac{1}{2}\) :=Covered/Coated Sand of the Covered/Coated Sand of the Covered/Coated Sand of the Covered/Coated Sand of the Covered	well to well  Type  C s for Problen A16 - Coast S7 - Dark S0 Tf12 - Very	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay es
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric	group):  tion (Describe to It  Bottom Depth  15  24    Soil Field In  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifice A10 - 2 cm M A11 - Deplete	Saylesville silt Ioam Typic Hapludalfs the depth needed to document the indice Horizon  1 2 dicators (check he pipedon stic n Sulfide da Layers luck and Below Dark Surface	Color 10YR 10YR	Matrix (Moist)  3/1  5/1     cators an	mdicators.) (Type:  % 100 55 en to pres \$4 - Sand \$5 - Sand \$5 - Stripp \$1 - Loam \$2 - Loam \$3 - Deple \$6 - Redo	C=Concentration  10YR  10YR  2y Gleyed y Redox ped Matrix ny Muck M ny	A slides indicated upla  Series Drainage Class:  Rec  Color (Moist)   5/6      Watrix  In maral  Matrix  Krface	: moderately \(\frac{1}{2}\) :=Covered/Coated Sand of the Covered/Coated Sand of the Covered/Coated Sand of the Covered/Coated Sand of the Covered	well to well  Type  C s for Problen A16 - Coast S7 - Dark S0 Tf12 - Very	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay es
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SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric:	group):  tion (Describe to It  Bottom Depth 15 24 Soil Field In  A1- Histosol A2 - Histic Er A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M A11 - Deplets A12 - Thick D S1 - Sandy N	Saylesville silt Ioam Typic Hapludalfs he depth needed to document the indice Horizon  1 2 dicators (check he pipedon stic in Sulfide di Layers luck and Below Dark Surface plack Surface plack Mineral	Color 10YR 10YR	the absence of in Matrix ((Moist) 3/1 5/1	mdicators.) (Type:  % 100 55 en to pres \$4 - Sand \$5 - Sand \$5 - Stripp \$1 - Loam \$2 - Loam \$3 - Deple \$6 - Redo	c=Concentratio  10YR  1	A slides indicated upla  Series Drainage Class:  In, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/6  I: Matrix ineral Matrix criface Surface Surface	moderately values and of dox Features %	well to well Grains; Location: PL=  Type   C    sfor Problen  A16 - Coast S7 - Dark St F12 - Iron-M Other (Expla	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay es
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric:	group):  tion (Describe to It  Bottom Depth 15 24 Soil Field In  A1- Histosol A2 - Histic Er A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M A11 - Deplets A12 - Thick D S1 - Sandy N	Saylesville silt Ioam Typic Hapludalfs  Horizon  1 2 dicators (check he bipedon stic n Sulfide 1 Layers luck ad Below Dark Surface bark Surface	Color 10YR 10YR	Matrix (Moist) 3/1 5/1 cators an	mdicators.) (Type:  % 100 55	c=Concentratio  10YR  1	A slides indicated upla  Series Drainage Class:  In, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/6  I: Matrix ineral Matrix criface Surface Surface	moderately values and of dox Features %	well to well Grains; Location: PL=  Type   C    sfor Problen  A16 - Coast S7 - Dark St F12 - Iron-M Other (Expla	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay es urface
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric	group):  tion (Describe to It  Bottom Depth 15 24 Soil Field In  A1- Histosol A2 - Histic Er A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M A11 - Deplets A12 - Thick D S1 - Sandy N	Saylesville silt Ioam Typic Hapludalfs  Horizon  1 2 dicators (check he bipedon stic n Sulfide I Layers luck ded Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR 10YR	the absence of in Matrix ((Moist) 3/1 5/1	mdicators.) (Type:  % 100 55	c=Concentratio  10YR  1	A slides indicated upla  Series Drainage Class:  In, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/6  I: Matrix ineral Matrix criface Surface Surface	moderately values and of dox Features %	well to well  Type  Type  C  C    s for Problen  A16 - Coast S7 - Dark St F12 - Iron-M  TF12 - Very  Other (Expla	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay es
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric	group):  tion (Describe to It  Bottom Depth  15  24    Soil Field In  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu  Type:	Saylesville silt Ioam Typic Hapludalfs the depth needed to document the indice Horizon  1 2 dicators (check he poipedon stic on Sulfide di Layers luck and Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR 10YR	Matrix (Moist)  3/1  5/1     cators an	mdicators.) (Type:  % 100 55 e not pres \$4 - Sand \$5 - Sand \$5 - Stripp \$1 - Loam \$7 - Deple \$6 - Redo \$7 - Deple \$7 - Redo	C=Concentration  10YR  10YR  2y Gleyed y Redox oed Matrix y Muck M ny Muck M ny Muck M atrix y Dark Su atrix y Dark Su atrix	A slides indicated upla  Series Drainage Class:  In, D=Depletion, RM=Reduced Matrix, CS  Rec  Color (Moist)   5/6      Watrix  Internal Matrix  Internal Matrix	moderately v s=covered/Coated Sand of dox Features  %	well to well  Grains; Location: PL=  Type   C    s for Problem  A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay es urface
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric	group):  tion (Describe to It  Bottom Depth  15  24     Soil Field In  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu  Type:	Saylesville silt Ioam Typic Hapludalfs  re depth needed to document the indice Horizon  1 2 dicators (check he be) pipedon stic n Sulfide di Layers luck ed Below Dark Surface luck Mineral cky Peat or Peat N/A tch mapped soil typ	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1     cators an	mdicators.) (Type:  % 100 55 e not pres \$4 - Sand \$5 - Sand \$6 - Strip; \$1 - Loam \$7 - Deple \$6 - Redo \$7 - Deple \$8 - Redo	C=Concentration  10YR  10YR  2y Gleyed y Redox oed Matrix y Muck M ny Muck M ny Muck M atrix y Dark Su atrix y Dark Su atrix	A slides indicated upla  Series Drainage Class:  In, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/6  I: Matrix ineral Matrix criface Surface Surface	moderately v s=covered/Coated Sand of dox Features  %	well to well  Grains; Location: PL=  Type   C    s for Problem  A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay es urface
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric	group):  tion (Describe to It  Bottom Depth  15  24     Soil Field In  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu  Type:	Saylesville silt Ioam Typic Hapludalfs the depth needed to document the indice Horizon  1 2 dicators (check he poipedon stic on Sulfide di Layers luck and Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1     cators an	mdicators.) (Type:  % 100 55 e not pres \$4 - Sand \$5 - Sand \$6 - Strip; \$1 - Loam \$7 - Deple \$6 - Redo \$7 - Deple \$8 - Redo	C=Concentration  10YR   10YR   y Gleyed y Redox oed Matrix y Muck M ny Muck M ny Muck M atrix y Dark Su atrix y Dark Su atrix	A slides indicated upla  Series Drainage Class:  In, D=Depletion, RM=Reduced Matrix, CS  Rec  Color (Moist)   5/6      Watrix  Internal Matrix  Internal Matrix	moderately v s=covered/Coated Sand of dox Features  %	well to well  Grains; Location: PL=  Type   C    s for Problem  A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay es urface
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric	group):  tion (Describe to It  Bottom Depth  15  24     Soil Field In  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu  Type:	Saylesville silt Ioam Typic Hapludalfs  re depth needed to document the indice Horizon  1 2 dicators (check he be) pipedon stic n Sulfide di Layers luck ed Below Dark Surface luck Mineral cky Peat or Peat N/A tch mapped soil typ	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1     cators an	mdicators.) (Type:  % 100 55 e not pres \$4 - Sand \$5 - Sand \$6 - Strip; \$1 - Loam \$7 - Deple \$6 - Redo \$7 - Deple \$8 - Redo	C=Concentration  10YR   10YR   y Gleyed y Redox oed Matrix y Muck M ny Muck M ny Muck M atrix y Dark Su atrix y Dark Su atrix	A slides indicated upla  Series Drainage Class:  In, D=Depletion, RM=Reduced Matrix, CS  Rec  Color (Moist)   5/6      Watrix  Internal Matrix  Internal Matrix	moderately v s=covered/Coated Sand of dox Features  %	well to well  Grains; Location: PL=  Type   C    s for Problem  A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay es urface

Herb - All herbaceous (non-woody) plants, regardless of size,

and woody plants less than 3.28 ft. tall.

Hydrophytic Vegetation Present ☑ Yes ☐ No

Woody Vines - All woody vines greater than 3.28 ft. in height.



### WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: Emerald Park Landfill - Western Expansion Wetland ID: Adj to W2A Sample Point W2-9u **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2 Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. 5 x 2 = 10 x 3 = FAC spp. 25 75 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 0 0 1. UPL spp. 0 x 5= 2. 3. Total 30 (A) 85 4. 5. Prevalence Index = B/A = 2.833 6. 7. **Hydrophytic Vegetation Indicators:** 8. 9. Rapid Test for Hydrophytic Vegetation ☐ Yes ☑ No 10. --\_\_ \_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = 0 ✓ Yes □ No Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* Agrostis hyemalis 25 FAC 1. \* Indicators of hydric soil and wetland hydrology must be 2. ECHINOCHLOA CRUS-GALLI Ν **FACW** 5 present, unless disturbed or problematic. 3. --**Definitions of Vegetation Strata:** 4. --5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11.

stubble, it could have changed the dominants.

Total Cover =

Total Cover =

30

0

#### **Additional Remarks:**

12.

13. 14.

15.

1. 2. 3.

4. 5.

Remarks:

Woody Vine Stratum (Plot size: 30 ft radius)

Hydrophytic vegetation was present, athough soils and vegetation were significantly disturbed. FSA slides indicated uplands in this vicinity and to north and south.

Vegetation was recently harvested and soils plowed, only leaving weeds. Recent soybean crop plowed under; but if cover could be estimated from



Project/Site:		ark Landfill - Wester		sion			Stantec Project #:	193702557		Date:	10/23/14	
Applicant:		Disposal Services, I	INC	- ,	""	_				County:	Waukesha	
Investigator #1:				Invest	igator #2:			= 417		State:	Wisconsin	
Soil Unit:		y silty clay loam			al Dallafi		/I/WWI Classification:	: E1K		Wetland ID:	W2A	
Landform: Slope (%):	Depression 0-2	Latitude:	NI/A		cal Relief: .ongitude:		•	Datum:	NI/A	Sample Point:	Wet Meadow	
		litions on the site type					m in Leonardss\		No	Section:	36	
Are Vegetation	□ Soil □	or Hydrology 🗆 sig	nificantly	disturbe	ed7	(I) No. Onpia	Are normal circumst			Township:	5 N	
		or Hydrology 🗆 nat						□No		Range:	20 E	
SUMMARY OF		, 0,		10111200						Ü		
Hydrophytic Ve		sent?		☑ Yes	□ No			Hydric Soils	Present?		☑ Yes □	□No
Wetland Hydrol					□ No			is This Samp	ng Point	Within A Wet <b>l</b> a	and? 🛮 Yes 🗖	No
Remarks:  HYDROLOGY		moisture conditions							_			
		tors (Check here if	indicator	rs are no	t present	□):			Socondan			
<u>Prim</u> ary □	A1 - Surface	Water			B9 - Wate	r-Stained	Leaves		Secondary:	E6 - Surface So	il Cracks	
<b></b> ✓	A2 - High Wa	iter Table			B13 - Aqu	atic Fauna	ſ			E10 - Drainage	Patterns	
	A3 - Saturation				B14 - True C1 - Hydr					C2 - Dry-Season		
	B1 - Water M B2 - Sedimer						spheres on Living Roots			C8 - Crayfish Bu	urrows Visible on Aerial Ima	agerv
	B3 - Drift Dep	oosits			C4 - Pres	ence of Re	duced Iron			D1 - Stunted or	Stressed Plants	97
	B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorphi		
	B5 - Iron Dep B7 - Inundation	osits on Visible on Aerial Ima	agerv		D9 - Gaug				Ĭ.	D5 - FAC-Neutr	ai rest	
		Vegetated Concave S			Other (Ex							
Field Observat												
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes □ No	
Water Table Pr		☑ Yes ☐ No	Depth:	6	(in.)						700 🚨 1.0	
Saturation Pres	sent?	☑ Yes ☐ No	Depth:	0	(in.)							
Describe Record	ded Data (stre	eam gauge, monitorir	ng well, a	erial phot	tos, previo	us insped	tions), if available:					
Remarks:												
SOILS												
Map Unit Name		Montgomery silty cl				S	eries Drainage Class:	: very poorly				
Map Unit Name Taxonomy (Sub	ogroup):	Vertic Endoaquolls	3									
Map Unit Name Taxonomy (Sub <b>Profile Descrip</b>	ogroup): otion (Describe to the	Vertic Endoaquolls	3				n, D=Depletion, RM=Reduced Matrix, CS	S=Covered/Coated Sand G	Srains; Location: PL=	Pore Lining, M=Matrix)	Toytura	
Map Unit Name Taxonomy (Sub Profile Descrip Top	ogroup): otion (Describe to the Bottom	Vertic Endoaquolls ne depth needed to document the indice	cator or confirm t	Matrix			n, D=Depletion, RM=Reduced Matrix, CS	S=Covered/Coated Sand G			Texture	Ioam)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	ogroup): otion (Describe to the Bottom Depth	Vertic Endoaquolls ne depth needed to document the indice Horizon	cator or confirm to	Matrix (Moist)	%	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	S=Covered/Coated Sand G	Туре	Location	(e.g. clay, sand,	loam)
Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0	ogroup): otion (Describe to the Bottom Depth	Vertic Endoaquolls ne depth needed to document the indice Horizon 1	Color 10YR	Matrix (Moist) 2/1	% 90	C=Concentration	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 5/1	S=Covered/Coated Sand G dox Features % 8	Type D	Location M	(e.g. clay, sand, silt loam	loam)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	ogroup): otion (Describe to the Bottom Depth 8	Vertic Endoaquolls the depth needed to document the indice  Horizon  1	Color 10YR	Matrix (Moist) 2/1 	% 90 	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/1 5/6	s=Covered/Coated Sand G dox Features % 8 2	Type D C	Location M M	(e.g. clay, sand, silt loam silt loam	
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8	ogroup): otion (Describe to the street of th	Vertic Endoaquolls ne depth needed to document the indice Horizon 1	Color 10YR 10YR	Matrix (Moist) 2/1  4/2	% 90	C=Concentration  10YR  10YR  10YR	n, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/1 5/6 5/6	S=Covered/Coated Sand G dox Features % 8	Type D	Location M	(e.g. clay, sand, silt loam silt loam silty clay loa	
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Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 18	ogroup):  otion (Describe to the Bottom Depth 8 18 24	Vertic Endoaquolls te depth needed to document the indice  Horizon  1   2  3	Color 10YR 10YR 10YR	Matrix (Moist) 2/1  4/2 5/1	90  95 90 	C=Concentration  10YR  10YR  10YR  10YR  10YR	n, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/1 5/6 5/6 5/6	s=covered/Coated Sand G dox Features % 8 2 5 10	Type D C C C	Location M M M M	(e.g. clay, sand, silt loam silt loam silty clay loa silty clay	
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 18	ogroup):  otion (Describe to the Depth 8	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2 3	Color 10YR 10YR	Matrix (Moist) 2/1  4/2 5/1 	90  95 90 	C=Concentration  10YR  10YR  10YR  10YR	n, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/1 5/6 5/6 5/6	s=covered/Coated Sand G dox Features % 8 2 5 10	Type D C C C	Location M M M M	(e.g. clay, sand, silt loam silt loam silty clay loa silty clay	
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Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 8 18 NRCS Hydric	ogroup):  otion (Describe to the Depth 8 8 18 24 Soil Field In A1- Histosol	Vertic Endoaquolls te depth needed to document the indice  Horizon  1  2 3 dicators (check he	Color 10YR 10YR 10YR	Matrix (Moist) 2/1 4/2 5/1 cators ar	% 90 95 90 e not pres	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	D-Depletion, RM-Reduced Matrix, CS Rec Color (Moist) 5/1 5/6 5/6 5/6	S=Covered/Coated Sand G dox Features	Type	Location  M  M  M  M      Prairie Redox	(e.g. clay, sand, silt loam silt loam silty clay loa silty clay 	
Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 8 18 NRCS Hydric	ogroup):  otion (Describe to the Depth 8 8 18 24 Soil Field In A1- Histosol A2 - Histic Ep	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2 3 dicators (check he objection)	Color 10YR 10YR 10YR	Matrix (Moist) 2/1 4/2 5/1 cators ar	% 90 95 90 e not pres S4 - Sand S5 - Sand	10YR 10YR 10YR 10YR 10YR 00YR 10YR 10YR	n. D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/1 5/6 5/6 5/6 Matrix	s=Covered/Coated Sand of dox Features	Type D C C C s for Problem A16 - Coast S7 - Dark Sr	Location  M  M  M      Prairie Redox	(e.g. clay, sand, silt loam silt loam silty clay loa silty clay  	
Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 8 18 NRCS Hydric	Degroup): Detion (Describe to It Depth 8 8 18 24 Soil Field In A1- Histosol A2 - Histic Eg A3 - Black Hi	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2 3 dicators (check he objection stic	Color 10YR 10YR 10YR	Matrix (Moist) 2/1 4/2 5/1 cators ar	% 90 95 90 e not pres \$4 - Sand \$6 - Stripp	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	n. D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/1 5/6 5/6 5/6	s=covered/Coated Sand G dox Features % 8 2 5 10 Indicators	Type	Location  M  M  M      matic Soils   1  Prairie Redox  urface  anganese Massi	(e.g. clay, sand, silt loam silt loam silty clay loa silty clay	
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Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 8 18 NRCS Hydric	pogroup): Dition (Describe to the Depth 8 8 18 24 25 oil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2 3 dicators (check he objeedon stic no Sulfide d Layers luck	Color or confirm to Color 10YR 10YR 10YR 10YR	Matrix (Moist)	% 90 95 90 e not pres \$4 - Sand \$5 - Sand \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	n. D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/1 5/6 5/6 5/6 : Matrix neral Matrix	s=covered/Coated Sand G dox Features  % 8 2 5 10 Indicators	Type  D C C C s for Problen A16 - Coast F12 - Iron-M TF12 - Very	Location  M M M M natic Soils ¹ Prairie Redox urface langanese Mass Shallow Dark St	(e.g. clay, sand, silt loam silt loam silty clay loa silty clay	
Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 8 18 NRCS Hydric	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A1- Deplete A1- Deplete	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2 3 dicators (check he objecton stic n Sulfide di Layers luck ad Below Dark Surface	Color or confirm to Color 10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Matrix (Moist)	% 90 95 90 95 S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo	10YR 10YR 10YR 10YR 10YR 20 10YR 10YR 20 20 20 20 20 20 20 20 20 20 20 20 20	n. D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/1 5/6 5/6 5/6	s=covered/Coated Sand G dox Features  % 8 2 5 10 Indicators	Type  D C C C s for Problen A16 - Coast F12 - Iron-M TF12 - Very	Location  M M M M natic Soils ¹ Prairie Redox urface langanese Mass Shallow Dark St	(e.g. clay, sand, silt loam silt loam silty clay loa silty clay	
Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 8 18 NRCS Hydric	Degroup): Describe to the state of the state	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2 3 dicators (check he objecton stice in Sulfide duck and Below Dark Surface bark Surface	Color or confirm to Color 10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Matrix (Moist)	% 90 95 90 e not pres \$4 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	n. D=Depletion, RM=Reduced Matrix. CS Rec Color (Moist) 5/1 5/6 5/6 5/6	s=covered/Coated Sand G dox Features  % 8 2 5 10 Indicators	Type  D C C C s for Problen A16 - Coast F12 - Iron-M TF12 - Very	Location  M M M M natic Soils ¹ Prairie Redox urface langanese Mass Shallow Dark St	(e.g. clay, sand, silt loam silt loam silty clay loa silty clay	
Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 8 18 NRCS Hydric	Degroup): Detion (Describe to the Depth 8 8 18 24 19 15 15 15 15 15 15 15 15 15 15 15 15 15	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2 3 dicators (check he objedon stic n Sulfide d Layers luck and Below Dark Surface bluck Mineral	Color or confirm to Color 10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Matrix (Moist)	% 90 95 90 95 S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	n. D=Depletion, RM=Reduced Matrix. CS Rec Color (Moist) 5/1 5/6 5/6 5/6	S=Covered/Coated Sand of dox Features	Type D C C C s for Problen A16 - Coast S7 - Dark St F12 - Iron-N Other (Expla	Location  M M M M	(e.g. clay, sand, silt loam silt y clay loa silty clay loa silty clay es	am
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 18 NRCS Hydric	Degroup): Detion (Describe to It Depth 8 8 18 24 18 18 24 19 19 19 19 19 19 19 19 19 19 19 19 19	Horizon  Horizon  1  2 3 dicators (check he objector stic in Sulfide di Layers luck de Below Dark Surface buck Mineral locky Peat or Peat	Color of confirm to Color 10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Matrix (Moist)	% 90 95 90 e not pres \$4 - Sand \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	n. D=Depletion, RM=Reduced Matrix. CS Rec Color (Moist) 5/1 5/6 5/6 5/6	S=Covered/Coated Sand of dox Features  % 8 2 5 10 Indicators  Indicators of hydrophy	Type  D C C C s for Problen A16 - Coast S7 - Dark St F12 - Iron-N TF12 - Very Other (Expla	Location  M M M M natic Soils  Prairie Redox urface langanese Mass Shallow Dark St ain in Remarks)	(e.g. clay, sand, silt loam silt loam silty clay loa silty clay es urface	am
Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 8 18 NRCS Hydric	Degroup): Detion (Describe to the Depth 8 8 18 24 19 15 15 15 15 15 15 15 15 15 15 15 15 15	Horizon  Horizon  1  2 3 dicators (check he objector stic in Sulfide di Layers luck de Below Dark Surface buck Mineral locky Peat or Peat	Color of confirm to Color 10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Matrix (Moist)	% 90 95 90 e not pres \$4 - Sand \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	n. D=Depletion, RM=Reduced Matrix. CS Rec Color (Moist) 5/1 5/6 5/6 5/6	S=Covered/Coated Sand of dox Features	Type  D C C C s for Problen A16 - Coast S7 - Dark St F12 - Iron-N TF12 - Very Other (Expla	Location  M M M M natic Soils  Prairie Redox urface langanese Mass Shallow Dark St ain in Remarks)	(e.g. clay, sand, silt loam silt y clay loa silty clay loa silty clay es	am
Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 8 18 NRCS Hydric	Degroup): Detion (Describe to It Depth 8 8 18 24 18 18 24 19 19 19 19 19 19 19 19 19 19 19 19 19	Horizon  Horizon  1  2 3 dicators (check he objector stic in Sulfide di Layers luck de Below Dark Surface buck Mineral locky Peat or Peat	Color of confirm to Color 10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Matrix (Moist)	% 90 95 90 e not pres \$4 - Sand \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	n. D=Depletion, RM=Reduced Matrix. CS Rec Color (Moist) 5/1 5/6 5/6 5/6	S=Covered/Coated Sand of dox Features  % 8 2 5 10 Indicators  Indicators of hydrophy	Type  D C C C s for Problen A16 - Coast S7 - Dark St F12 - Iron-N TF12 - Very Other (Expla	Location  M M M M natic Soils  Prairie Redox urface langanese Mass Shallow Dark St ain in Remarks)	(e.g. clay, sand, silt loam silt loam silty clay loa silty clay es urface	am
Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 8 18 NRCS Hydric	Degroup): Detion (Describe to It Depth 8 8 18 24 18 18 24 19 19 19 19 19 19 19 19 19 19 19 19 19	Horizon  Horizon  1  2 3 dicators (check he objector stic in Sulfide di Layers luck de Below Dark Surface buck Mineral locky Peat or Peat	Color of confirm to Color 10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Matrix (Moist)	% 90 95 90 e not pres \$4 - Sand \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	n. D=Depletion, RM=Reduced Matrix. CS Rec Color (Moist) 5/1 5/6 5/6 5/6	S=Covered/Coated Sand of dox Features  % 8 2 5 10 Indicators  Indicators of hydrophy	Type  D C C C s for Problen A16 - Coast S7 - Dark St F12 - Iron-N TF12 - Very Other (Expla	Location  M M M M natic Soils  Prairie Redox urface langanese Mass Shallow Dark St ain in Remarks)	(e.g. clay, sand, silt loam silt loam silty clay loa silty clay es urface	am
Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 8 18 NRCS Hydric	Degroup): Detion (Describe to It Depth 8 8 18 24 18 18 24 19 19 19 19 19 19 19 19 19 19 19 19 19	Horizon  Horizon  1  2 3 dicators (check he objector stic in Sulfide di Layers luck de Below Dark Surface buck Mineral locky Peat or Peat	Color of confirm to Color 10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Matrix (Moist)	% 90 95 90 e not pres \$4 - Sand \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	n. D=Depletion, RM=Reduced Matrix. CS Rec Color (Moist) 5/1 5/6 5/6 5/6	S=Covered/Coated Sand of dox Features  % 8 2 5 10 Indicators  Indicators of hydrophy	Type  D C C C s for Problen A16 - Coast S7 - Dark St F12 - Iron-N TF12 - Very Other (Expla	Location  M M M M natic Soils  Prairie Redox urface langanese Mass Shallow Dark St ain in Remarks)	(e.g. clay, sand, silt loam silt loam silty clay loa silty clay es urface	am



Project/Site: Emerald Park Landfill - Western Expansion Wetland ID: Sample Point W2-9w W2A **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: x 1 = 10. OBL spp. 30 Total Cover = 0 FACW spp. 70 x 2 = 140 x 3 = FAC spp. 7 21 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 20 80 FAC 1. Cornus racemosa 5 UPL spp. 0 x 5= 2. 3. Total 127 (A) 271 (B) 4. 5. Prevalence Index = B/A = 2.134 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Rapid Test for Hydrophytic Vegetation ☐ Yes ☑ No 10. --\_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = 5 ✓ Yes □ No Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* PHALARIS ARUNDINACEA FACW 1. 65 \* Indicators of hydric soil and wetland hydrology must be 2. Carex stricta 20 Ν **OBL** present, unless disturbed or problematic. 20 **FACU** 3. Solidago canadensis Ν 4. Ν OBL **Definitions of Vegetation Strata:** Calamagrostis canadensis 5 Carex lacustris 5 N OBL 5. **FACW** Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 Spartina pectinata 5 Ν breast height (DBH), regardless of height. 7. Cornus racemosa 2 Ν FAC 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 122 Woody Vine Stratum (Plot size: 30 ft radius) 1. 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = 0 Nearby point outside plot to north, hydrophytic shrubs (Cornus spp. and Salix spp.) dominate. Remarks: Additional Remarks:



Project/Site: Applicant: Investigator #1: Soil Unit:	Advanced I Eric Parker	ark Landfill - Wester Disposal Services, I · ry silty clay loam			igator #2:		Stantec Project #:  ylock  VI/WWI Classification:	193702557		Date: County: State: Wetland ID:	10/23/14 Waukesha Wisconsin Adj to W2A
Landform: Slope (%):	Hill Slope 5-6	Latitude:	: N/A		cal Relief: .ongitude:	Convex		Datum:	N/A	Sample Point:	,
		itions on the site ty						☑ Yes □	No	Section:	36
		or Hydrology 🗆 sig				-	Are normal circumst	The second secon	17	Township:	5 N
		or Hydrology 🛭 na	turally pr	oblemati	c?		☐ Yes	☑No		Range:	20 E
SUMMARY OF								FF 10 0 0			
Hydrophytic Ve					□ No			Hydric Soils		Within A Wetla	✓ Yes ☐ No
Remarks:			s normal				Point located in an a				
HYDROLOGY		cumstances interpre				andly old	the one received in an a	gric and co note	, with poter	iliai riyarologic	ar manipalationo.
	ology Indica	ators (Check here if	indicato	re are no	t present	EV.					
Primary	A1 - Surface A2 - High Wa A3 - Saturatio B1 - Water M B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundatio B8 - Sparsely	Water ater Table on larks tt Deposits posits at or Crust	agery		B9 - Wate B13 - Aqu B14 - True C1 - Hydr C3 - Oxidi C4 - Pres C6 - Rece	er-Stained latic Fauna e Aquatic ogen Sulfi ized Rhizo ence of Ro ent Iron Re Muck Sur ge or Well	a Plants de Odor spheres on Living Roots educed Iron sduction in Tilled Soils face Data			E6 - Surface So E10 - Drainage C2 - Dry-Seaso C8 - Crayfish Bi C9 - Saturation D1 - Stunted or D2 - Geomorphi D5 - FAC-Neutr	Patterns n Water Table urrows Visible on Aerial Imagery Stressed Plants ic Position
Field Observat Surface Water   Water Table Pro Saturation Pres	Present? esent? ent?	Yes ✓ No Yes ✓ No Yes ✓ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hyd			Yes ☑ No
Describe Record		eam gauge, monitorii					<u> </u>		•	Slide Review	
Remarks:	No primary	hydrology indicator	s were o	bserved	. FSA s <b>l</b> id	es indica	ate uplands at this loca	ation. Sample	point eleva	ation several fe	et above wetland.
SOILS		Mantagara					Danies Danies au Olassa				
Map Unit Name Taxonomy (Sub		Montgomery silty c Vertic Endoaquolls					Series Drainage Class:	very poorly			
				the absence of i	ndicators.) (Type:	C=Concentration	on, D=Depletion, RM=Reduced Matrix, CS	S=Covered/Coated Sand G	Frains: Location: PL=	Pore Lining M=Matrix)	
Тор	Bottom			Matrix				dox Features		J	Texture
Depth	Depth	Horizon	Color	(Moist)	%		Color (Moist)	%	Type	Location	(e.g. clay, sand, loam)
0	10	1	10YR	2/1	100						silty clay loam
10	24	2	10YR	5/1	55	10YR	5/8	45	С	М	clay
			<del></del>								
	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm A11 - Deplete A12 - Thick E S1 - Sandy M	istic en Sulfide d Layers luck ed Below Dark Surface Dark Surface			S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple	ly Gleyed ly Redox ped Matrix ny Muck M ny Gleyed eted Matri ox Dark Su eted Dark	Matrix  ( lineral Matrix x Irface Surface		S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Prairie Redox urface anganese Massi Shallow Dark Si ain in Remarks)	
Restrictive Layer (If Observed)	Type:	N/A		Depth:	N/A			Hydric Soil	Present?	Ø	Yes □ No
Remarks:	Sample poi	int location was rece	ently plov	ved. Soil	ls were dr	y throug	hout.				



Project/Site: Emerald Park Landfill - Western Expansion Wetland ID: Adj to W2A Sample Point W2-10u **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. 7. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. 10 x 2 = 20 x 3 = FAC spp. 5 15 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 0 0 1. UPL spp. 0 x 5= 2. 3. Total 15 (A) 35 4. 5. Prevalence Index = B/A = 2.333 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Rapid Test for Hydrophytic Vegetation ☐ Yes ☑ No 10. --\_\_ \_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = 0 ✓ Yes □ No Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* ECHINOCHLOA CRUS-GALLI **FACW** 1. 10 \* Indicators of hydric soil and wetland hydrology must be 2. Agrostis hyemalis 5 FAC present, unless disturbed or problematic. 3. --**Definitions of Vegetation Strata:** 4. --5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15.

Additional Remarks:

1. 2. 3.

4. 5.

Remarks:

Woody Vine Stratum (Plot size: 30 ft radius)

Additional Notice No.
Hydrophytic vegetation and hydric soils were present, although soils and vegetation were significantly disturbed.

Soybean crop recently harvested and soils plowed, leaving only weeds. Plowing prevented adequate interpretations of crop stress and cover estimate

Hydrophytic Vegetation Present ☑ Yes ☐ No

Total Cover =

Total Cover =

of soybeans - potentially which would alter dominants.

15

0



Project/Site:	Emerald Pa	ark Landfill - Westeri	n Expan	sion			Stantec Project #:	193702557		Date:	10/23/14
Applicant:		Disposal Services, II	NC			_				County:	Waukesha
Investigator #1				Investi	igator #2:					State:	Wisconsin
Soil Unit:		ry silty clay loam					VI/WWI Classification	: E1K			W2A
Landform:	Depression		NI/A		cal Relief:		e	D-4	N1/A	Sample Point:	
Slope (%):	0-2	Latitude:			ongitude:		Duranius or KNA	Datum:		- '	Wet Meadow
		ditions on the site typ				П по, ехры	Are normal circumst	☑ Yes ☐		Section:	36
		or Hydrology □ sign or Hydrology □ nati						⊟No	ě	Township:	5 N 20 E
SUMMARY OF		or Hydrology L hau	arany pro	opiemau	of.		<u> </u>	□ M0		Range:	20 E
Hydrophytic Ve		nont?		- Vec	- No			Hydric Soils	Dragant?		
Wetland Hydro					□ No					Within A Wetla	
Remarks:		t moisture conditions	tinon al	and the second				IS THIS SHIT	IIIIIII POIIIL	vviuiiii A vveua	illu! Pres Pro
<u>Prim</u> ary	ology Indica	ators (Check here if		rs are no	ot present	Ē):		-	Secondary		
		ater Table on /larks Int Deposits posits at or Crust			C4 - Prese C6 - Rece C7 - Thin	atic Fauna e Aquatic I ogen Sulfi ized Rhizo ence of Re ent Iron Re Muck Surf ge or Well	a Plants de Odor spheres on Living Roots educed Iron duction in Tilled Soils ace Data			E6 - Surface So E10 - Drainage C2 - Dry-Seaso C8 - Crayfish Bi C9 - Saturation D1 - Stunted or D2 - Geomorphi D5 - FAC-Neutr	Patterns n Water Table urrows Visible on Aerial Imagery Stressed Plants ic Position
Field Observa Surface Water Water Table Pr Saturation Pres	Present? resent? sent?	✓ Yes □ No ✓ Yes □ No ✓ Yes □ No ✓ eam gauge, monitorin	Depth: Depth: Depth:	0 0	(in.) (in.) (in.)	us inspec	ctions) if available:	Wetland Hyd	drology Pr	'esent? ☑	]Yes □ No
Remarks:	zea Bata (ott		g won, at	Silai pilot	OO, PICVIO	ио пторес	otiono), ii available.				
itemarks.											
SOILS											
Map Unit Name	e:	Montgomery silty cla	ay loam			S	Series Drainage Class	very poorly			
Taxonomy (Sul	bgroup):	Vertic Endoaquolls	;								
Profile Descrip	otion (Describe to t	he depth needed to document the indic	ator or confirm t	the absence of i	ndicators.) (Type:	C=Concentratio	on, D=Depletion, RM=Reduced Matrix, CS	=Covered/Coated Sand G	rains; Location: PL:	=Pore Lining, M=Matrix)	
Тор	Bottom			Matrix				dox Features			Texture
Depth	Depth	Horizon	Color	(Moist)	%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
0	8	1	10YR	2/1	100				-		silt loam
8	20	2	10YR	4/1	95	10YR	5/6	15	С	M	clay
	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm N A11 - Deplete A12 - Thick E S1 - Sandy N	pipedon istic en Sulfide d Layers /luck ed Below Dark Surface Dark Surface	e if indic		S4 - Sand S5 - Sand	y Gleyed of Redox oped Matrix on Muck May Gleyed operated Matrix ox Dark Sueted Dark	Matrix  ineral Matrix  k rface Surface		A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very Other (Expl	Manganese Massi / Shallow Dark Su ain in Remarks)	
Restrictive Layer	Type:			Donth:	NI/A						Yes No
(If Observed)	1 ype.	N/A 		Depth:	N/A			Hydric Soil	Present		Yes 🗆 No
Remarks:											



Project/Site:

#### WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID:

W2A

Emerald Park Landfill - Western Expansion Sample Point W2-10w **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status Salix bebbiana 5 **FACW** 2 Number of Dominant Species that are OBL, FACW, or FAC: 5 (A) 3. 4. Total Number of Dominant Species Across All Strata: 5 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: x 1 = 10. OBL spp. 35 Total Cover = FACW spp. 86 x 2 = 172 x 3 = FAC spp. 0 0 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 0 0 FACW 1. Salix discolor 4 UPL spp. 0 x 5= 2. Spiraea alba 2 **FACW** 3. Total 121 (A) 207 4. 5. Prevalence Index = B/A = 1.711 --6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. ☑ Yes Rapid Test for Hydrophytic Vegetation ☐ No 10. --\_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = □ No 6 ✓ Yes Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* PHALARIS ARUNDINACEA FACW 1. 50 \* Indicators of hydric soil and wetland hydrology must be 2. Spartina pectinata 25 Υ **FACW** present, unless disturbed or problematic. 20 Ν OBL 3. Carex stricta Carex lacustris Ν OBL **Definitions of Vegetation Strata:** 4. 15 5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 110 Woody Vine Stratum (Plot size: 30 ft radius) 1. 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = 0 Remarks: Point located in portion of wetland dominated by perennial vegetation. Additional Remarks:



Project/Site: Applicant: Investigator #1:	Advanced I	ark Landfill - Wester Disposal Services, I			gator #2:	Melissa	Stantec Project #:	193702557		Date: County: State:	10/17/14 Waukesha Wisconsin
Soil Unit: Landform:	Montgome	y silty clay			al Relief:	NV	/I/WWI Classification:	N/A		Wetland ID:	W5
Slope (%):	Depression 1-2	Latitude:	NI/A		ongitude:		<del>;</del>	Datum:	NI/A	Sample Point:	Wet Meadow
		litions on the site typ					m in cumarbe\		No	Section:	36
		or Hydrology  sign				in the explain	Are normal circumsta			Township:	5 N
		or Hydrology 🗀 nat					☑ Yes	□No	1	Range:	20 E
SUMMARY OF I		of Flydrology E hat	urcary pro	Distillation	<b>.</b>		E 190	Lino		Kange.	20 L
Hydrophytic Veg		cont2		7 Vec	□ No			Hydric Soils	Procent?		☑ Yes □ No
Wetland Hydrol				☑ Yes						Within A Wetla	
Remarks:	WETS ana	lysis indicates norma	al antece	edent mo	isture co	noitions.	Sample point existed field and is well repres	in a long nam	ow wetland	between agric	ultural fields. No
HYDROLOGY		9 aprairie propinations	- tatietti	Thirth H S	3110131011	e distil	note with the fresh tepisor	(A) (19 M (E) 11 M			
Wetland Hydro	ology Indica	itors (Check here if	indicator	s are no	t present	□);					
Primary:	A1 - Surface A2 - High Wa A3 - Saturation B1 - Water M B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundation	Water ater Table on larks tt Deposits oosits at or Crust	agery		B9 - Wate B13 - Aqu B14 - True C1 - Hydro C3 - Oxidi C4 - Prese	er-Stained atic Fauna e Aquatic F ogen Sulfic zed Rhizo ence of Re ent Iron Re Muck Surfi je or Well	Plants te Odor spheres on Living Roots duced Iron duction in Tilled Soils ace Data			E6 - Surface So E10 - Drainage C2 - Dry-Seasor C8 - Crayfish B. C9 - Saturation ' D1 - Stunted or C2 - Geomorphi D5 - FAC-Neutra	Patterns n Water Table urrows Visible on Aerial Imagery Stressed Plants c Position
Field Observat	ions:										
Surface Water F Water Table Pre	esent?	☐ Yes ☑ No ☐ Yes ☑ No	Depth: Depth:		(in.) (in.)			Wetland Hye	drology Pr	esent?	Yes □ No
Saturation Pres	ent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Record	ed Data (str	eam gauge, monitorin	ng well a	arial phot	os previo	ue inenac	tions) if available:				
			ig weil, at	silai pilot	os, picvio	us mapec	tions), ii avaliable.				
Remarks:	Linear depi						om old end furrow, or	old shallow aç	gricultural d	itch adjacent t	o agricultural field.
SOILS		ressional area with s	seasonal			y likely fr	om old end furrow, or		gricu <b>l</b> tural d	itch adjacent t	o agricultural field.
SOILS Map Unit Name	:	essional area with s  Montgomery silty cl	seasonal ay			y likely fr			gricultural d	itch adjacent t	o agricultural field.
SOILS Map Unit Name Taxonomy (Sub	: group):	essional area with s  Montgomery silty cl  Vertic Endoaquolls	seasonal ay	wetland	hydrolog	y likely fr S	om old end furrow, or eries Drainage Class:	very poorly			o agricultural field.
SOILS Map Unit Name Taxonomy (Sub Profile Descrip	: group): <b>tion</b> (Describe to the	essional area with s  Montgomery silty cl  Vertic Endoaquolls	seasonal ay	wetland	hydrolog	y likely fr S	om old end furrow, or eries Drainage Class:  n. D-Depletion, RM-Reduced Matrix, CS	very poorly  =Covered/Coated Sand G			
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SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	group): tion (Describe to the Bottom Depth	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indic Horizon	ay  cator or confirm to	wetland  he absence of in  Matrix (Moist)	hydrolog	y likely fr	om old end furrow, or eries Drainage Class:  n. D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	very poorly  =Covered/Coated Sand G dox Features %	erains; Location: PL=	Pore Lining, M=Matrix)  Location	Texture (e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to the Bottom Depth 4	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indice Horizon	ay cator or confirm t Color 10YR	he absence of in  Matrix (Moist)  2/1	hydrolog	y likely fr	eries Drainage Class:  n. D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	very poorly  =Covered/Coated Sand G dox Features  %	Type	Pore Lining, M=Matrix)  Location	Texture (e.g. clay, sand, loam) silty clay loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 4	group): tion (Describe to the Bottom Depth 4 16	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indic Horizon 1	ay cator or confirm t Color 10YR 2.5Y	he absence of ir  Matrix (Moist) 2/1 5/2	hydrolog	y likely fr S C=Concentratio	eries Drainage Class:  n. D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/4	very poorly  =Covered/Coated Sand G dox Features  % 10	Type C	Pore Lining, M=Matrix)  Location  M	Texture (e.g. clay, sand, loam) silty clay loam silty clay
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 4 16	group): tion (Describe to the Bottom Depth 4 16 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the indices of the indices of the depth needed to document the depth needed to do	ay cator or confirm to Color 10YR 2.5Y 5Y	he absence of in Matrix (Moist) 2/1 5/2 6/2	% 100 90 85	y likely fr S C=Concentratio 10YR 10YR	eries Drainage Class:  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   4/4  3/6	very poorly  -Covered/Coated Sand G tox Features  % 10 15	Type C C	Pore Lining, M=Matrix)  Location   M  M	Texture (e.g. clay, sand, loam) silty clay loam silty clay silty clay
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 4 16	group): tion (Describe to to Bottom Depth 4 16 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the indices Horizon  1 2 3	ay Color 10YR 2.5Y 5Y	he absence of in Matrix (Moist) 2/1 5/2 6/2	% 100 90 85	y likely fr  S  C-Concentratio   10YR  10YR	eries Drainage Class:  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   4/4  3/6	very poorly  =Covered/Coated Sand G dox Features  % 10 15	Type C C	Pore Lining, M=Matrix)  Location   M  M	Texture (e.g. clay, sand, loam) silty clay loam silty clay silty clay
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SOILS  Map Unit Name Taxonomy (Sub Profile Descrip  Top Depth 0 4 16 NRCS Hydric S	group):  tion (Describe to II  Bottom Depth 4 16 24 Soil Field In A1- Histosol A2 - Histic Eq. A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplett A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Montgomery silty cl Vertic Endoaquolls te depth needed to document the indic  Horizon  1 2 3 dicators (check here bipedon stic an Sulfide d Layers luck ded Below Dark Surface and Surface fluck Mineral lucky Peat or Peat	ceasonal  ay  Color 10YR 2.5Y 5Y	he absence of ir Matrix (Moist) 2/1 5/2 6/2	% 100 90 85 so not press \$4 - Sand \$5 - Sand \$5 - Stand \$7 - Deple \$7 - Deple \$7 - Deple \$7 - Redo	c=concentratio  10YR 10YR 10YR y Gleyed I y Redox oped Matrix y Muck Miny Gleyed Matrix by Called Matrix by Called Matrix by Called Dark six Dark Sulveted Dark Sulveted Dark Sulveted Dark six Dark Sulveted Dark six Dark Sulveted Dark six Dark Sulveted Dark Sul	eries Drainage Class:  De Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/4 3/6 Matrix  meral Matrix : face Surface	very poorly  =Covered/Coated Sand G dox Features  % 10 15 Indicators  Indicators of hydrophy	Type  Type  C C C	Location  Location  M  M	Texture (e.g. clay, sand, loam) silty clay loam silty clay silty clay



Project/Site: Emerald Park Landfill - Western Expansion Wetland ID: W5 Sample Point W5-1w **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: 10. OBL spp. x 1 = 31 Total Cover = 0 FACW spp. 56 x 2 = 112 x 3 = FAC spp. 5 15 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 8 FACU 1. Quercus alba N UPL spp. 0 x 5= 2. Cornus alba Ν **FACW** 1 3. Total 94 (A) 166 4. 5. Prevalence Index = B/A = 1.766 --6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Rapid Test for Hydrophytic Vegetation ☑ Yes ☐ No 10. ----\_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = ✓ Yes □ No Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* OBL 1. Carex pellita 30 \* Indicators of hydric soil and wetland hydrology must be 2. Spartina pectinata 30 Υ **FACW** present, unless disturbed or problematic. PHALARIS ARUNDINACEA **FACW** 3. 15 Ν 4. 10 Ν FACW **Definitions of Vegetation Strata:** Solidago gigantea Silphium terebinthinaceum 5 N FAC 5. **FACU** Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 Solidago canadensis 1 Ν breast height (DBH), regardless of height. 7. LYTHRUM SALICARIA 1 Ν OBL 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 92 Woody Vine Stratum (Plot size: 30 ft radius) 1. 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = 0 Sample point is located in a low quality wet meadow community between agricultural field and an upland tree line. Remarks: Additional Remarks:



I	Emerald Pa	ark Landfill - Wester	n Expan	sion			Stantec Project #:	193702557	•	Date:	10/17/14
Applicant:	Advanced [	Disposal Services, I	NC							County:	Waukesha
Investigator #1:				Invest	igator #2:					State:	Wisconsin
Soil Unit:	Montgomer	y silty clay		_			VI/WWI Classification	: N/A		Wetland ID:	Betw. W2 & W6
Landform:	Hill Slope	1 -414	NI/A		al Relief:			D-4	NI/A	Sample Point:	
Slope (%):	2-4	<u>Latitude:</u> litions on the <u>site ty</u>			ongitude:		kojas andarbisk	Datum:  ☑ Yes □		Community ID: Section:	Agricultural Field 36
Are Vigatation	I Soil II	or Hydrology  sig	nificanti	disturbe	of year:	п по, ехра	Are normal circumst			Township:	5 N
Are Vegetation	□ Soil □	or Hydrology 🔲 nat	urally or	oblemati	67		□ Yes	⊠ No		Range:	20 E
SUMMARY OF		or riyardiogy E na.	orcary pr	Opicinos				2		rtange.	20 L
Hydrophytic Ve		sent?		□ Yes	☑ No			Hydric Soils	Present?		☐ Yes ☑ No
Wetland Hydrol					☑ No					Within A Wetla	
Remarks:			s normal				Point located in an a				
							ited hay grass & legu				
HYDROLOGY											
	ology Indica	tors (Check here if	indicato	rs are no	t present	(a):					
Primary:	<u>:</u>		014049115		is the second	- /-			Secondary:		
	A1 - Surface				B9 - Wate					E6 - Surface So	
	A2 - High Wa A3 - Saturation				B13 - Aqu B14 - True					E10 - Drainage C2 - Dry-Seaso	
	B1 - Water M				C1 - Hydro					C8 - Crayfish Bu	
	B2 - Sedimer	nt Deposits					spheres on Living Roots			C9 - Saturation	Visible on Aerial Imagery
	B3 - Drift Dep						educed Iron				Stressed Plants
	B4 - Algal Ma B5 - Iron Dep				C6 - Rece		duction in Tilled Soils			☐2 - Geomorphi	
		on Visible on Aerial Ima	agery	ä						Lo 1710 Hour	ai root
	B8 - Sparsely	Vegetated Concave S	urface		Other (Exp	plain in Re	marks)				
Field Observat											
Surface Water I		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes ☑ No
Water Table Pro		☐ Yes ☑ No	Depth:		(in.)						.,
Saturation Pres	sent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Record	ded Data (stre	eam gauge, monitorir	ng well, a	erial phot	os, previo	us insped	tions), if available:		Annual Crop	Slide Review	
Remarks:	No hydrolog	gy indicators were o	bserved	. FSA sli	des indica	ate uplar	ds at this location bet	ween W-2 and	d W-6.		
COLLC											
SOILS											
Map Unit Name		Montgomery silty c				5	Series Drainage Class	: very poorly			
Map Unit Name Taxonomy (Sub	ogroup):	Vertic Endoaquolls	;				<u> </u>				
Map Unit Name Taxonomy (Sub <b>Profile Descrip</b>	ogroup): otion (Describe to th	Vertic Endoaquolls	;		ndicators.) (Type:		n, D=Depletion, RM=Reduced Matrix, CS	S=Covered/Coated Sand G	Grains; Location: PL=	Pore Lining, M=Matrix)	
Map Unit Name Taxonomy (Sub Profile Descrip Top	ogroup): otion (Describe to the Bottom	Vertic Endoaquolls e depth needed to document the indi	cator or confirm	Matrix			n, D=Depletion, RM=Reduced Matrix, CS	S=Covered/Coated Sand G	1		Texture
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	ogroup): otion (Describe to the Bottom Depth	Vertic Endoaquolls te depth needed to document the indi  Horizon	cator or confirm	Matrix (Moist)	%	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	S=Covered/Coated Sand G	Туре	Location	(e.g. clay, sand, loam)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	Degroup): Describe to the Bottom Depth Depth	Vertic Endoaquolls e depth needed to document the indi  Horizon  1	cator or confirm  Color  10YR	Matrix (Moist) 3/1	% 100	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	S=Covered/Coated Sand G	Type 	Location 	(e.g. clay, sand, loam) silty clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16	Degroup):  otion (Describe to the Bottom Depth 16 24	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2	Color 10YR 2.5Y	Matrix (Moist) 3/1 5/2	% 100 90	C=Concentration	n, D=Depletion, RM=Reduced Matrix, Ct Red Color (Moist)  5/4	S=Covered/Coated Sand G dox Features % 10	Type  C	Location  M	(e.g. clay, sand, loam) silty clay clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16	ogroup): otion (Describe to the Bottom Depth 16 24	Vertic Endoaquolls te depth needed to document the indice  Horizon  1  2	Color 10YR 2.5Y	Matrix (Moist) 3/1 5/2 	% 100 90 	C=Concentratio	n. D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)  5/4	S=Covered/Coated Sand G dox Features % 10	Type C	Location  M	(e.g. clay, sand, loam) silty clay clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16	ogroup): otion (Describe to the Bottom Depth 16 24	Vertic Endoaquolls te depth needed to document the indice  Horizon  1  2	Color 10YR 2.5Y	Matrix (Moist) 3/1 5/2 	% 100 90 	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, Ct Red Color (Moist)  5/4 	S=Covered/Coated Sand G dox Features  %   10	Type C	Location M	(e.g. clay, sand, loam) silty clay clay
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Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric S	ogroup):  otion (Describe to tr  Bottom Depth 16 24 Soil Field In	Vertic Endoaquolls te depth needed to document the indice  Horizon  1  2	Color 10YR 2.5Y	Matrix (Moist) 3/1 5/2 cators an	% 100 90	2.5Y	n, D=Depletion, RM=Reduced Matrix, CS Ret Color (Moist) 5/4	S=Covered/Coated Sand of dox Features % 10 Indicators	Type C s for Problem	Location   M	(e.g. clay, sand, loam) silty clay clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric:	ogroup):  otion (Describe to the Bottom Depth 16 24 Soil Field In A1- Histosol	Vertic Endoaquolls te depth needed to document the individual to t	Color 10YR 2.5Y	Matrix (Moist)  3/1  5/2      cators an	% 100 90	2.5Y y Gleyed	n, D=Depletion, RM=Reduced Matrix, CS Ret Color (Moist) 5/4	s=covered/Coated Sand C dox Features % 10 10 Indicators	Type C s for Problen	Location  M	(e.g. clay, sand, loam) silty clay clay
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Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric S	Degroup): Detion (Describe to It Depth   16	Vertic Endoaquolls te depth needed to document the indice te depth needed to document the indice to depth needed to document the indice the indi	Color 10YR 2.5Y	Matrix (Moist)  3/1  5/2     cators an	% 100 90	2.5Y y Gleyed y Redox y Redox y Muck My Muck My Muck My Muck My	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 5/4 Watrix	S=Covered/Coated Sand G dox Features % 10 Indicators	Type	Location  M	(e.g. clay, sand, loam) silty clay clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric S	pgroup):  ption (Describe to the Depth	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2 dicators (check he oppedon stic n Sulfide I Layers	Color 10YR 2.5Y	Matrix (Moist) 3/1 5/2 cators an	% 100 90	2.5Y 2.5Y y Gleyed y Redox open Murch Marrish y Muck Marrish y Muck Mary Murch Mary Gleyed	n. D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 5/4 Watrix ineral Matrix	S=Covered/Coated Sand G dox Features % 10 Indicators	Type	Location  M	(e.g. clay, sand, loam) silty clay clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric S	pgroup):  ption (Describe to tr. Depth	Vertic Endoaquolls te depth needed to document the indice  Horizon  1  2  dicators (check he objeedon stic n Sulfide I Layers uck	Color 10YR 2.5Y	Matrix (Moist) 3/1 5/2 cators an	% 100 90	2.5Y 2.5Y y Gleyed y Redox oed Matrix y Muck M y Gleyed eted Matrix	n. D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 5/4	S=Covered/Coated Sand G dox Features % 10 Indicators	Type	Location  M	(e.g. clay, sand, loam) silty clay clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric S	Soil Field In A1- Histosol A2 - Histic Ep A3 - Stratific A4 - Hydroge A5 - Stratific A1 - Deplete A1 - Deplete A1 - Deplete A1 - Deplete	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2 dicators (check he objecton stic n Sulfide st Layers uck ad Below Dark Surface	Color 10YR 2.5Y	Matrix (Moist) 3/1 5/2	% 100 90	C=Concentration  2.5Y  seent	n. D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 5/4	S=Covered/Coated Sand G dox Features % 10 Indicators	Type	Location  M	(e.g. clay, sand, loam) silty clay clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric :	Degroup):  Dition (Describe to the Depth	Vertic Endoaquolls te depth needed to document the individual to t	Color 10YR 2.5Y	Matrix (Moist)  3/1  5/2     cators an	% 100 90	C=Concentration  2.5Y	n, D=Depletion, RM=Reduced Matrix, CS Ret Color (Moist) 5/4 Watrix ineral Matrix ( rface Surface Surface	s=covered/Coated sand of dox Features	Type  C s for Problen A16 - Coast S7 - Dark St F12 - Iron-M Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay clay es
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric:	Degroup):  Dition (Describe to the Depth	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2 dicators (check he oppedon stic n Sulfide I Layers uck ad Below Dark Surface park Surface	Color 10YR 2.5Y	Matrix (Moist)  3/1  5/2     cators an	% 100 90	C=Concentration  2.5Y	n, D=Depletion, RM=Reduced Matrix, CS Ret Color (Moist) 5/4 Watrix ineral Matrix ( rface Surface Surface	s=covered/Coated sand of dox Features	Type  C s for Problen A16 - Coast S7 - Dark St F12 - Iron-M Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric S	Degroup):  Dition (Describe to the Depth	Vertic Endoaquolls te depth needed to document the indice Horizon  1 2 dicators (check he objector stic in Sulfide I Layers uck and Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR 2.5Y	Matrix (Moist)  3/1  5/2     cators an	% 100 90	C=Concentration  2.5Y	n, D=Depletion, RM=Reduced Matrix, CS Ret Color (Moist) 5/4 Watrix ineral Matrix ( rface Surface Surface	s=covered/Coated sand of dox Features	Type  C s for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay clay es
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric S	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratific A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu Type:	Vertic Endoaquolls te depth needed to document the indice Horizon  1 2 dicators (check he bipedon stic n Sulfide d Layers uck ed Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR 2.5Y	Matrix (Moist) 3/1 5/2 cators an	% 100 90	C=Concentration  2.5Y  sent	n, D=Depletion, RM=Reduced Matrix, CS Ret Color (Moist) 5/4 Watrix ineral Matrix ( rface Surface Surface	S=Covered/Coated Sand G dox Features	Type  C s for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay clay es urface
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric S	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratific A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu Type:	Vertic Endoaquolls te depth needed to document the indice Horizon  1 2 dicators (check he objector stic in Sulfide I Layers uck and Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR 2.5Y	Matrix (Moist) 3/1 5/2 cators an	% 100 90	C=Concentration  2.5Y  sent	n, D=Depletion, RM=Reduced Matrix, CS Ret Color (Moist) 5/4 Watrix ineral Matrix ( rface Surface Surface	S=Covered/Coated Sand G dox Features	Type  C s for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay clay es urface
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric S	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratific A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu Type:	Vertic Endoaquolls te depth needed to document the indice Horizon  1 2 dicators (check he bipedon stic n Sulfide d Layers uck ed Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR 2.5Y	Matrix (Moist) 3/1 5/2 cators an	% 100 90	C=Concentration  2.5Y  sent ☑ y Gleyed y Redox ped Matrix y Muck M yy Gleyed eted Matrix x Dark Su eted Dark x Depress	n, D=Depletion, RM=Reduced Matrix, CS Ret Color (Moist) 5/4 Watrix ineral Matrix ( rface Surface Surface	S=Covered/Coated Sand G dox Features	Type  C s for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay clay es urface
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 16 NRCS Hydric S	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratific A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu Type:	Vertic Endoaquolls te depth needed to document the indice Horizon  1 2 dicators (check he bipedon stic n Sulfide d Layers uck ed Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR 2.5Y	Matrix (Moist) 3/1 5/2 cators an	% 100 90	C=Concentration  2.5Y  sent ☑ y Gleyed y Redox ped Matrix y Muck M yy Gleyed eted Matrix x Dark Su eted Dark x Depress	n, D=Depletion, RM=Reduced Matrix, CS Ret Color (Moist) 5/4 Watrix ineral Matrix ( rface Surface Surface	S=Covered/Coated Sand G dox Features	Type  C s for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay clay es urface



Wetland ID: Betw. W2 & W6 Sample Point W6-1u Project/Site: Emerald Park Landfill - Western Expansion **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) 6. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. 0 x 2 = 0 x 3 = FAC spp. 0 0 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 105 420 1. UPL spp. 0 x 5= 2. 3. Total 105 (A) 420 4. 5. Prevalence Index = B/A = 4.000 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Rapid Test for Hydrophytic Vegetation ☐ Yes ☑ No 10. --\_\_ ☐ Yes ☑ No Dominance Test is > 50% Total Cover = 0 ☐ Yes ☑ No Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* SCHEDONORUS PRATENSIS FACU 1. 50 \* Indicators of hydric soil and wetland hydrology must be 2. TRIFOLIUM PRATENSE 40 Υ **FACU** present, unless disturbed or problematic. TARAXACUM OFFICINALE 10 **FACU** 3. Ν 4. DACTYLIS GLOMERATA 5 Ν FACU **Definitions of Vegetation Strata:** 5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 105 Woody Vine Stratum (Plot size: 30 ft radius) 1. 3. Hydrophytic Vegetation Present ☐ Yes ☑ No 4. 5. Total Cover = 0

Additional Remarks:		

Healthy upland hay field with general lack of Phalaris in the vicinity.

Remarks:



Project/Site:	Emerald Pa	ark Landfill - Wester	n Expan	sion			Stantec Project #:	193702557		Date:	10/17/14
Applicant:		Disposal Services, I		0.011			ctantoo i rojoot #.	100102001		County:	Waukesha
Investigator #1:				Invest	igator #2:	Melissa	Curran			State:	Wisconsin
Soil Unit:	Montgomer	y silty clay loam				NV	VI/WWI Classification:	N/A		Wetland ID:	W6
Landform:	Depression	1		Loc	cal Relief:	Linear				Sample Point:	W6-1w
Slope (%):	0-2	La <u>titude:</u>			ongitude:			Datum:			Wet Meadow
		litions on the site ty				II по, ехры		☑ Yes ⊔		Section:	36
		or Hydrology 🗆 sig					Are normal circumsta	The second secon	13	Township:	5 N
Are Vegetation	□, Soil □,	or Hydrology 🛭 nat	turally pro	oplemati	C?			□No		Range:	20 E
SUMMARY OF				- 17.	- 1			Dividute Onlin	D		E Van E Na
Hydrophytic Ve Wetland Hydrol					□ No			Hydric Soils		Within A Wetla	✓ Yes □ No
Remarks:	Antecedent	t moisture condition	s normal	based o	n WETS	analysis	Sample point located				
Tromano.	, uncocaern	moletare congligation.	3 110111101	20000		cuitaly sis	Demple point locales	in a tong har	W Wolland	a on the eage	or a may nota:
HYDROLOGY											
	ology Indica	itors (Check here if	indicato	re are or	t procont	E.V.					
Primary		ILOIS (CHECK HEIS II	mulcalo	is ale lic	v bresein	1.76			Secondary:		
	A1 - Surface	Water			B9 - Wate	r-Stained	Leaves			E6 - Surface So	
	A2 - High Wa				B13 - Aqu					E10 - Drainage	
	A3 - Saturation B1 - Water M				B14 - True C1 - Hydre					C2 - Dry-Season C8 - Crayfish Bu	
	B2 - Sedimer						spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep	posits			C4 - Prese	ence of Re	educed Iron			□1 - Stunted or	Stressed Plants
							duction in Tilled Soils			D2 - Geomorphi	
	B5 - Iron Dep	oosits on Visible on Aerial Ima	agery		C7 - Thin D9 - Gaug				M	D5 - FAC-Neutra	ai i est
		/ Vegetated Concave S			Other (Ex						
-											
Field Observat	tions:	170 87									
Surface Water	Present?	☐ Yes ☑ No	Depth:		(in.)			Wetland Hyd	drology Dr	ocont?	Yes □ No
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)			wettand my	urology i i	esent:	163 🗖 110
Saturation Pres	ent?	☑ Yes ☐ No	Depth:	4	(in.)						
Describe Record	ded Data (stre	eam gauge, monitorir	ng well, a	erial phot	os, previo	us insped	tions), if available:				
Remarks:	Wetland is	most likely an old e	end-furro	w or an	old shallo	w ditch a	long the edge of an ag	ricultural field	d.		
SOILS											
Map Unit Name		Montgomery silty c					Series Drainage Class:	very poorly			
Taxonomy (Sub		Vertic Endoaquolls									
		ne depth needed to document the indi	cator or confirm			C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS=		rains; Location: PL=	Pore Lining, M=Matrix)	Texture
Top	Bottom	Horizon	Color	Matrix (Moist)	<b>%</b>			lox Features	Typo	1 4:	rexture
Depth 0	Depth 4		Color	(IVIOISI)	1 70	1		0/			(e.g. clay cand loam)
4			10VD	3/1	100		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
	1 22 1	1	10YR	3/1	100	 10YR					silty clay loam
	22	2	2.5Y	6/2	80	10YR	 5/4	 20	 C	 M	silty clay loam silty clay
	 	-	_		<del> </del>			20	 C	 M 	silty clay loam
		2	2.5Y 	6/2	80	10YR 	5/4 	 20	 C	 M	silty clay loam silty clay
		2	2.5Y 	6/2	80  	10YR 	5/4  	20	 C  	 M 	silty clay loam silty clay 
		2	2.5Y  	6/2   	80  	10YR  	 5/4   	20  	 C  	 M  	silty clay loam silty clay
		2   	2.5Y   	6/2   	80   	10YR   	 5/4   	20   	C	 M  	silty clay loam silty clay
   		2     	2.5Y	6/2     	80     	10YR	 5/4     	20     	 C	 M  	silty clay loam silty clay
    NRCS Hydric	     Soil Field In	2      dicators (check he	2.5Y	6/2 cators ar	80     e not pres	10YR sent □ y Gleyed	 5/4     	20 Indicators		M	silty clay loam silty clay
    NRCS Hydric	Soil Field In A1- Histosol A2 - Histic Ep	2 dicators (check he	2.5Y	6/2 cators an	80     e not pres \$4 - Sand \$5 - Sand	10YR sent □ y Gleyed y Redox	 5/4        Vatrix			M	silty clay loam silty clay
    NRCS Hydric	soil Field In A1- Histosol A2 - Histic Eç A3 - Black Hi	2 dicators (check he	2.5Y	6/2 cators ar	80	10YR sent	 5/4        :: Watrix			M	silty clay loam silty clay
    NRCS Hydric	soil Field In A1- Histosol A2 - Histo Ep A3 - Black Hi A4 - Hydroge	2 dicators (check he bipedon stic en Sulfide	2.5Y	6/2 cators ar	80	10YR y Gleyed y Redox ped Matrix y Muck M	 5/4       Watrix			M	silty clay loam silty clay
    NRCS Hydric	Soil Field In A1- Histosol A2 - Histic Eq. A3 - Black Hi A4 - Hydroge A5 - Stratified	2 dicators (check he bipedon stic en Sulfide di Layers	2.5Y	6/2	80	10YR y Gleyed y Redox y Redox y Redox y Muck Matrix by Muck May Gleyed	 5/4      Watrix			M	silty clay loam silty clay
    NRCS Hydric		2 dicators (check he oppedon stic en Sulfide di Layers luck ed Below Dark Surface	2.5Y	6/2	80 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo	10YR	5/4			M	silty clay loam silty clay
NRCS Hydric	Soil Field In A1- Histosol A2- Histoscl A3- Black Hi A4- Hydroge A5- Stratified A10- 2 cm M A11- Deplete A12- Thick D	2 dicators (check he bipedon stic en Sulfide d Layers luck ed Below Dark Surface bark Surface	2.5Y	6/2	80 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	10YR	5/4			M	silty clay loam silty clay
    NRCS Hydric	Soil Field In A1- Histosol A2 - Histic Eq. A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	2 dicators (check he bipedon stic en Sulfide d Layers luck ed Below Dark Surface bark Surface	2.5Y	6/2	80 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo	10YR	5/4			M	silty clay loam silty clay ses
	Soil Field In A1- Histosol A3- Histosol A4- Hydroge A5- Stratifier A10- 2 cm M A11- Deplete A12- Thick E S1- Sandy M S3- 5 cm Mu	2 dicators (check he bipedon stic en Sulfide d Layers luck de Below Dark Surface park Surface	2.5Y	6/2	80 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR	5/4	20 Indicators  Indicators of hydrophy	GC	M	silty clay loam silty clay
NRCS Hydric  NRCS Hydric  Restrictive Layer (If Observed)	Soil Field In A1- Histosol A2 - Histic Eq. A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	2 dicators (check he bipedon stic en Sulfide d Layers luck de Below Dark Surface park Surface	2.5Y	6/2	80 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR	5/4		GC	M	silty clay loam silty clay ses
	Soil Field In A1- Histosol A3- Histosol A4- Hydroge A5- Stratifier A10- 2 cm M A11- Deplete A12- Thick E S1- Sandy M S3- 5 cm Mu	2 dicators (check he bipedon stic en Sulfide d Layers luck de Below Dark Surface park Surface	2.5Y	6/2	80 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR	5/4	20 Indicators  Indicators of hydrophy	GC	M	silty clay loam silty clay
NRCS Hydric  NRCS Hydric  Restrictive Layer (If Observed)	Soil Field In A1- Histosol A3- Histosol A4- Hydroge A5- Stratifier A10- 2 cm M A11- Deplete A12- Thick E S1- Sandy M S3- 5 cm Mu	2 dicators (check he bipedon stic en Sulfide d Layers luck de Below Dark Surface park Surface	2.5Y	6/2	80 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR	5/4	20 Indicators  Indicators of hydrophy	GC	M	silty clay loam silty clay
NRCS Hydric  NRCS Hydric  Restrictive Layer (If Observed)	Soil Field In A1- Histosol A3- Histosol A4- Hydroge A5- Stratifier A10- 2 cm M A11- Deplete A12- Thick E S1- Sandy M S3- 5 cm Mu	2 dicators (check he bipedon stic en Sulfide d Layers luck de Below Dark Surface park Surface	2.5Y	6/2	80 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR	5/4	20 Indicators  Indicators of hydrophy	GC	M	silty clay loam silty clay



Project/Site: Emerald Park Landfill - Western Expansion Wetland ID: W6 Sample Point W6-1w **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: x 1 = 10. OBL spp. 20 FACW spp. Total Cover = 0 91 x 2 = 182 x 3 = FAC spp. 0 0 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 0 0 FACW 1. Cornus alba 1 Ν UPL spp. 0 x 5= 2. 3. Total 111 (A) 202 4. 5. Prevalence Index = B/A = 1.820 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. ☑ Yes Rapid Test for Hydrophytic Vegetation ☐ No 10. ----\_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = □ No ✓ Yes Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* PHALARIS ARUNDINACEA FACW 1. 60 \* Indicators of hydric soil and wetland hydrology must be 2. Spartina pectinata 25 Υ **FACW** present, unless disturbed or problematic. 3. Ν OBL Carex pellita 15 4. Oxypolis rigidior Ν OBL **Definitions of Vegetation Strata:** 5 Helianthus grosseserratus 5 N FACW 5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 -breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 110 Woody Vine Stratum (Plot size: 30 ft radius) 1. 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = 0 Remarks: Sample point is located in a narrow wet meadow between an agricultural field and an upland tree line. Additional Remarks:



Project/Site:											
		ark Landfill - Wester		sion			Stantec Project #:	193702557		Date:	10/17/14
Applicant:		Disposal Services, I	NC							County:	Waukesha
Investigator #1:	Martinton s			Invest	igator #2:			Name		State:	Wisconsin
Soil Unit: Landform:		iit ioam		1	al Daliafi		VI/WWI Classification:	None			•
	Hill Slope	1 -4:4	NI/A		al Relief:			Datum	N1/A	Sample Point:	
Slope (%):	2-4	Latitude: litions on the site type			ongitude:		Attaches value Attaches value	Datum:  ☑ Yes □	No.	Section:	Agricultural Field 36
						ппо, ехры	Are normal circumst				
		or Hydrology □ sig or Hydrology □ nat					☐ Yes	ences presen ⊡No	15	Township: Range:	5 N 20 E
		or Hydrology L hat	urany pro	Dieman	U.	-	Litea	<u>™</u> 140		Range:	20 E
SUMMARY OF Hydrophytic Ve			_	□ Yes	☑ No			Hydric Soils	Dronont?		☐ Yes ☑ No
Wetland Hydrol				☐ Yes						Nithin A Wetla	
Remarks:			e normal				Point located in an a				
i Kelliaiks.		umstances assume			III WEIG	curciyara	- Onth Tocaled in an a	A lecutares neig	with poter	iliai riyurologic	ai mampulations.
	1401111ai oire	amotanoco agoginto	at their late	odel ()							
HYDROLOGY											
Wetland Hydre	ology Indica	itors (Check here if	indicator	rs are no	t present	(e):					
<u>Primary</u>				_	/2				Secondary:	·	
	A1 - Surface				B9 - Wate					E6 - Surface So	
	A2 - High Wa A3 - Saturation				B13 - Aqu B14 - True					E10 - Drainage C2 - Dry-Seaso	
	B1 - Water M				C1 - Hydro					C8 - Crayfish Bu	
							spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Der				C4 - Prese					□1 - Stunted or	
	B4 - Algal Ma B5 - Iron Dep				C6 - Rece		duction in Tilled Soils			D2 - Geomorphi D5 - FAC-Neutr	
		on Visible on Aerial Ima	agery		D9 - Gaug					Lo 1710 Hodi	ui root
		Vegetated Concave S			Other (Ex						
Field Observat	tions:										
Surface Water	Present?	☐ Yes ☑ No	Depth:		(in.)			Wetland Hyd	drology Dr	ocont?	Yes ☑ No
Water Table Pr	esent?	☐ Yes ☑ No	Depth:		(in.)			wettallu liye	urology Fi	esent:	1162 110
Saturation Pres	ent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Record	ded Data (stre	eam gauge, monitorir	ng well, a	erial phot	os, previo	us inspec	tions), if available:		Annual Crop	Slide Review	
l Remarks:	No hydrolo	av indicators were o	bserved.	. FSA sli	des indica	ated upla	nds at this location, si	ignatures cons	sistent to th	e east.	
Remarks:	No hydrolo	gy indicators were o	bserved.	. FSA sli	des indica	ated upla	nds at this location, si	ignatures cons	sistent to th	e east.	
Remarks: SOILS	No hydrolo	gy indicators were o	bserved.	. FSA s <b>l</b> i	des indica	ated upla	nds at this location, si	ignatures cons	sistent to th	e east.	
	,		bserved.	. FSA s <b>l</b> i	des indica	<u>'</u>	nds at this location, si eries Drainage Class:			e east.	
SOILS Map Unit Name Taxonomy (Sub	e: ogroup):	Martinton silt loam Aquic Argiudolls				S	eries Drainage Class:	: somewhat po	oorly		
SOILS Map Unit Name Taxonomy (Sub	e: ogroup):	Martinton silt loam Aquic Argiudolls				S	eries Drainage Class:	: somewhat po	oorly		
SOILS Map Unit Name Taxonomy (Sub	e: ogroup):	Martinton silt loam Aquic Argiudolls				S	Series Drainage Class:	: somewhat po	oorly		Texture
SOILS Map Unit Name Taxonomy (Sub	e: ogroup): otion (Describe to the	Martinton silt loam Aquic Argiudolls	cator or confirm t	the absence of in		S	Series Drainage Class:	: somewhat po	oorly		Texture (e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top	e: ogroup): otion (Describe to the	Martinton silt loam Aquic Argiudolls re depth needed to document the indice	cator or confirm t	he absence of it	ndicators.) (Type:	S	deries Drainage Class: n. D=Depletion, RM=Reduced Matrix, CS Rec	s=Covered/Coated Sand G	porly rains; Location: PL=	Pore Lining, M=Matrix)	
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth	e: ogroup): otion (Describe to the Bottom Depth	Martinton silt loam Aquic Argiudolls te depth needed to document the indie	cator or confirm t	he absence of it  Matrix (Moist)	ndicators.) (Type:	C=Concentratio	Series Drainage Class: n. D-Depletion, RM-Reduced Matrix, CS Rec Color (Moist)	: somewhat pose-covered/Coated Sand G	oorly rains; Location: PL=	Pore Lining, M=Matrix)  Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: ogroup): otion (Describe to the Bottom Depth	Martinton silt loam Aquic Argiudolls se depth needed to document the indice Horizon	Color 10YR	he absence of in Matrix (Moist)	ndicators.) (Type:	C=Concentratio	deries Drainage Class: n. D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	somewhat pose-covered/Coated Sand Godox Features %	rains; Location: PL=	Pore Lining, M=Matrix)  Location	(e.g. clay, sand, loam) silty clay loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 9	e: Degroup): Defion (Describe to the Depth 9 16	Martinton silt loam Aquic Argiudolls the depth needed to document the indice Horizon 1 2	Color 10YR 10YR	he absence of it  Matrix (Moist)  3/1  4/3	% 100 98	C=Concentratio	deries Drainage Class: n. D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 3/4	somewhat pose-covered/Coated Sand Good Features % 2	Type C	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam silty clay
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SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16	e: Degroup): Defion (Describe to the Depth 9 16 24	Martinton silt loam Aquic Argiudolls te depth needed to document the indice Horizon 1 2 3	Color 10YR 10YR 10YR	he absence of it Matrix (Moist) 3/1 4/3 5/2	% 100 98 90	C=Concentratio	Deries Drainage Class:  n. D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 3/4 4/6	scovered/Coated Sand Godox Features  % 2 10	Type C C	Pore Lining, M=Matrix)  Location   M  M	(e.g. clay, sand, loam) silty clay loam silty clay clay
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16	e: Degroup): Degroup): Bottom Depth 9 16 24	Martinton silt loam Aquic Argiudolls te depth needed to document the indice Horizon 1 2 3	Color 10YR 10YR 10YR	he absence of it Matrix (Moist) 3/1 4/3 5/2	% 100 98 90	C=Concentratio	Deries Drainage Class:  In. D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 3/4 4/6	scovered/Coated Sand Godox Features % 2 10	Type C C	Pore Lining, M=Matrix)  Location   M  M	(e.g. clay, sand, loam) silty clay loam silty clay clay
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16	pgroup): Dition (Describe to the Depth 9 16 24	Martinton silt loam Aquic Argiudolls ne depth needed to document the indice Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/1 4/3 5/2	% 100 98 90		Series Drainage Class: n, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 3/4 4/6	Somewhat posts somewh	Type  C C	Pore Lining, M=Matrix)  Location   M  M	(e.g. clay, sand, loam) silty clay loam silty clay clay
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16 NRCS Hydric	pgroup): Dition (Describe to the Depth 9 16 24	Martinton silt loam Aquic Argiudolls ne depth needed to document the indice Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/1 4/3 5/2	% 100 98 90 e not pres	C=Concentratio	eries Drainage Class:  n, D=Depletion, RM=Reduced Matrix, CS  Red Color (Moist)   3/4  4/6	S=Covered/Coated Sand G dox Features % 2 10 Indicators	Type C	Pore Lining, M=Matrix)  Location   M  M	(e.g. clay, sand, loam) silty clay loam silty clay clay
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SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16 NRCS Hydric	Bottom Depth 9 16 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi	Martinton silt loam Aquic Argiudolls the depth needed to document the indice Horizon  1 2 3 dicators (check he objeedon stic	Color 10YR 10YR 10YR	Matrix (Moist) 3/1 4/3 5/2 cators an	% 100 98 90 e not pres \$4 - Sand \$6 - Stript	C=Concentration  10YR  10YR  sent	deries Drainage Class:  Rec Color (Moist)  3/4 4/6	secovered/Coated Sand Godox Features  % 2 10 Indicators	Type C C	Pore Lining, M=Matrix)  Location   M  M	(e.g. clay, sand, loam) silty clay loam silty clay clay es
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16 NRCS Hydric	Beilogroup):  pogroup):  Bottom Depth 9 16 24 Soil Field In A1- Histosol A2 - Histic Eg A3 - Black Hi A4 - Hydroge	Martinton silt loam Aquic Argiudolls  e depth needed to document the indice  Horizon  1 2 3 dicators (check he objeedon stic on Sulfide	Color 10YR 10YR 10YR	he absence of in Matrix (Moist) 3/1 4/3 5/2 cators arr	% 100 98 90 e not pres \$4 - Sand \$5 - Sand \$5 - Stripp F1 - Loam	C=Concentratio	eries Drainage Class:  Rec Color (Moist)  3/4 4/6	S=Covered/Coated Sand G dox Features % 2 10 Indicators	Type  C C C	Location  Location  M  M	(e.g. clay, sand, loam) silty clay loam silty clay clay es
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SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16 NRCS Hydric	Bettom Depth 9 16 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M	Martinton silt loam Aquic Argiudolls the depth needed to document the indice Horizon  1 2 3 dicators (check he objeedon stic in Sulfide it Layers luck	Color 10YR 10YR 10YR	Matrix (Moist) 3/1 4/3 5/2 cators an	% 100 98 90 e not pres \$4 - Sand \$5 - Sand \$5 - Stripp F1 - Loam	C=Concentration  10YR  10YR  sent  y Gleyed ly Redox oed Matrix in y Muck M by Gleyed eted Matrix	Series Drainage Class:  N. D-Depletion, RM-Reduced Matrix, CS Rec Color (Moist)  3/4 4/6	S=Covered/Coated Sand G dox Features % 2 10 Indicators	Type  C C C	Location  Location  M  M	(e.g. clay, sand, loam) silty clay loam silty clay clay es
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16 NRCS Hydric	Bottom Depth 9 16 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratiffied A10 - 2 cm M A11 - Deplete	Martinton silt loam Aquic Argiudolls te depth needed to document the indice Horizon  1 2 3 dicators (check he pipedon stic n Sulfide da Layers luck ted Below Dark Surface	Color 10YR 10YR 10YR	Matrix (Moist) 3/1 4/3 5/2 cators ar	% 100 98 90 e not pres S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F3 - Deple	C=Concentration  10YR  10YR  sent  y Gleyed y Redox y Redox y Muck M y Gleyed eted Matrix y Muck M y Gleyed	deries Drainage Class:  n. D=Depletion, RM=Reduced Matrix, CS  Rec Color (Moist)  3/4 4/6	S=Covered/Coated Sand G dox Features % 2 10 Indicators	Type  C C C	Location  Location  M  M	(e.g. clay, sand, loam) silty clay loam silty clay clay es
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16 NRCS Hydric	Singroup):  pgroup):  btion (Describe to the Depth	Martinton silt loam Aquic Argiudolls he depth needed to document the indice Horizon  1 2 3 dicators (check he objeedon stic n Sulfide di Layers luck ed Below Dark Surface pluck Mineral	Color 10YR 10YR 10YR	he absence of in Matrix (Moist) 3/1 4/3 5/2	% 100 98 90 e not pres \$4 - Sand \$5 - Sand \$6 - Stript F1 - Loam F2 - Loam F3 - Deple F6 - Redo	c=Concentratio	eries Drainage Class:  Rec Color (Moist)  3/4 4/6	S=Covered/Coated Sand G dox Features % 2 10 Indicators	Type  C C C	Location  Location  M  M	(e.g. clay, sand, loam) silty clay loam silty clay es
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16 NRCS Hydric	Singroup):  pgroup):  btion (Describe to the Depth	Martinton silt loam Aquic Argiudolls  edepth needed to document the indice  Horizon  1 2 3 dicators (check he bipedon stic n Sulfide 1 Layers luck ad Below Dark Surface bark Surface	Color 10YR 10YR 10YR	he absence of in Matrix (Moist) 3/1 4/3 5/2	% 100 98 90 e not pres \$4 - Sand \$5 - Sand \$5 - Sartipp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	c=Concentratio	eries Drainage Class:  Rec Color (Moist)  3/4 4/6	S=Covered/Coated Sand G dox Features % 2 10 Indicators	Type  C C C	Location  Location  M  M	(e.g. clay, sand, loam) silty clay loam silty clay clay es
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16 NRCS Hydric	Singroup):  pgroup):  btion (Describe to the Depth	Martinton silt loam Aquic Argiudolls  e depth needed to document the indic  Horizon  1 2 3 dicators (check he bipedon stic n Sulfide I Layers luck ad Below Dark Surface luck Mineral lcky Peat or Peat	Color 10YR 10YR 10YR	he absence of in Matrix (Moist) 3/1 4/3 5/2	% 100 98 90 e not pres \$4 - Sand \$5 - Sand \$5 - Sartipp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	c=Concentratio	eries Drainage Class:  Rec Color (Moist)  3/4 4/6	S=Covered/Coated Sand G dox Features % 2 10 Indicators	Type  Type  C C C	Location  Location  M  M	(e.g. clay, sand, loam) silty clay loam silty clay es
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16 NRCS Hydric	Scipoup): Display to the post of the post	Martinton silt loam Aquic Argiudolls te depth needed to document the indice Horizon  1 2 3 dicators (check he objecton stic on Sulfide da Layers luck ed Below Dark Surface luck Mineral lucky Peat or Peat	Color 10YR 10YR 10YR	he absence of in Matrix (Moist) 3/1 4/3 5/2 cators arr	98 90	c=Concentratio	eries Drainage Class:  Rec Color (Moist)  3/4 4/6	S=Covered/Coated Sand G dox Features % 2 10 Indicators  ' Indicators of hydrophy	Type  Type  C C C	Location  Location  M  M	(e.g. clay, sand, loam) silty clay loam silty clay clay es urface
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16 NRCS Hydric	Sigroup):  pgroup):  btion (Describe to the second points):  general field in A1- Histosol A2 - Histosol A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mu	Martinton silt loam Aquic Argiudolls te depth needed to document the indice Horizon  1 2 3 dicators (check he objecton stic on Sulfide da Layers luck ed Below Dark Surface luck Mineral lucky Peat or Peat	Color 10YR 10YR 10YR	he absence of in Matrix (Moist) 3/1 4/3 5/2 cators arr	98 90	c=Concentratio	eries Drainage Class:  Rec Color (Moist)  3/4 4/6	S=Covered/Coated Sand G dox Features % 2 10 Indicators  ' Indicators of hydrophy	Type  Type  C C C	Location  Location  M  M	(e.g. clay, sand, loam) silty clay loam silty clay clay es urface
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 9 16 NRCS Hydric	Scipoup): Display to the post of the post	Martinton silt loam Aquic Argiudolls te depth needed to document the indice Horizon  1 2 3 dicators (check he objecton stic on Sulfide da Layers luck ed Below Dark Surface luck Mineral lucky Peat or Peat	Color 10YR 10YR 10YR	he absence of in Matrix (Moist) 3/1 4/3 5/2 cators arr	98 90	c=Concentratio	eries Drainage Class:  Rec Color (Moist)  3/4 4/6	S=Covered/Coated Sand G dox Features % 2 10 Indicators  ' Indicators of hydrophy	Type  Type  C C C	Location  Location  M  M	(e.g. clay, sand, loam) silty clay loam silty clay clay es urface



Project/Site:

#### WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID: Adj to W7 Sample Point W7-1u Emerald Park Landfill - Western Expansion **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 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. Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) 6. 7. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: 10. OBL spp. x 1 = FACW spp. Total Cover = 0 0 x 2 = 0 x 3 = FAC spp. 0 0 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 0 0 1. UPL spp. 40 x 5= 2. 3. Total 40 (A) 200 4. 5. Prevalence Index = B/A = 5.000 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Rapid Test for Hydrophytic Vegetation ☐ Yes ☑ No 10. ----\_\_ ☐ Yes ☑ No Dominance Test is > 50% Total Cover = 0 ☐ Yes ☑ No Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* **GLYCINE MAX** UPL 1. 40 \* Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** 5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 40 Woody Vine Stratum (Plot size: 30 ft radius) 1. 3. Hydrophytic Vegetation Present ☐ Yes ☑ No 4. 5. Total Cover = 0 In ag, field. Healthy soy bean crop recently harvested, but stubble present as no plowing occurred. Glycine cover estimated based on stubble. No Remarks: weeds observed in herb plot. Additional Remarks:



Project/Site: Applicant: Investigator #1: Soil Unit:	Advanced I				igator #2:		Stantec Project #:  Curran  /I/WWI Classification			Date: County: State: Wetland ID:	10/17/14 Waukesha Wisconsin W7
Landform:	Hill Slope	Latitudo	NI/A		al Relief: ongitude:		e	Datum:	NI/A	Sample Point:	W7-1w Farmed Wetland
Slope (%): Are climatic/hyd	0-1 drologic cond	<u>Latitude:</u> litions on the site type					min remarks)	☑ Yes ☐		Section:	36
		or Hydrology 🗆 sigi				11.11.2.2.0	Are normal circumst			Township:	5 N
Are Vegetation	□, Soil □,	or Hydrology 🛭 nat					☐ Yes	⊠No	0.	Range:	20 E
SUMMARY OF											
Hydrophytic Ve					□ No			Hydric Soils		A ('11 ' - A ) A ( - 11 -	☑ Yes ☐ No
Wetland Hydrol Remarks:	Ogy Present	mojeture conditions	normal.		□ No		Point located in an a			Within A Wetla	
		cumstances assume			II VYL IS	araysis.	FOR TOCALET IN AT A	gricollar hei	with poter	itiai riyurologic	ai mampulations.
HYDROLOGY	- l ll!	4 (Ob	to the other	0.000	4			_			
Primary  2 2 2 3 3 4 5 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	A1 - Surface A2 - High Wa A3 - Saturatio B1 - Water M B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundatio B8 - Sparsely	ater Table on larks at Deposits posits at or Crust	agery		B9 - Wate B13 - Aqu B14 - True C1 - Hydr C3 - Oxidi C4 - Prese	er-Stained latic Fauna e Aquatic F logen Sulfii ized Rhizo ence of Re ent Iron Re Muck Surf ge or Well	Plants de Odor spheres on Living Roots duced Iron duction in Tilled Soils ace Data				Patterns n Water Table urrows Visible on Aerial Imagery Stressed Plants ic Position
Surface Water		☑ Yes ☐ No	Donth:	0.5	(in )						
Water Table Pr		☑ Yes ☐ No	Depth: Depth:	0.5	(in.) (in.)			Wetland Hy	drology Pr	esent?	Yes 🗆 No
Saturation Pres		☑ Yes □ No	Depth:		(in.)						
Describe Record	ded Data (str	eam gauge, monitorin	ıq well, a	erial phot	os, previo	us inspec	tions), if available:		Annual Crop	Slide Review	
Remarks:	Primary an	d secondary wetland			•		hydrology. FSA slide	s indicate wet	lands via re	ecurring signat	ures (crop stress,
SOILS	saturation,	and inundation).									
SOILS Man Unit Name		,				S	eries Drainage Class	· somewhat no	oorly		
Map Unit Name	<b>:</b>	Martinton silt loam				S	eries Drainage Class	: somewhat po	oorly		
Map Unit Name Taxonomy (Sub <b>Profile Descrip</b>	e: ogroup):	Martinton silt loam Aquic Argiudolls	eator or confirm t	the absence of ii	ndicators.) (Type:			•		Pore Lining, M=Matrix)	
Map Unit Name Taxonomy (Sub Profile Descrip Top	e: ogroup):	Martinton silt loam Aquic Argiudolls		Matrix			n, D=Depletion, RM=Reduced Matrix, CS	S=Covered/Coated Sand G	Grains; Location: PL=	Pore Lining, M=Matrix)	Texture
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	e: ogroup): otion (Describe to the Bottom Depth	Martinton silt loam Aquic Argiudolls te depth needed to document the indice Horizon	Color	Matrix (Moist)	%	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	S=Covered/Coated Sand G	Frains; Location: PL=	Location	(e.g. clay, sand, loam)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: ogroup): otion (Describe to the Bottom Depth 8	Martinton silt loam Aquic Argiudolls ne depth needed to document the indice Horizon	Color 10YR	Matrix (Moist) 3/1	% 100	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	S=Covered/Coated Sand G	Type	Location 	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8	e: pegroup): ption (Describe to the sound of	Martinton silt loam Aquic Argiudolls ne depth needed to document the indice Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/1 3/1	% 100 98	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, Cs Red Color (Moist)  3/3	s=Covered/Coated Sand G dox Features % 2	Type C	Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 14	e: ogroup): otion (Describe to the Depth 8 14 20	Martinton silt loam Aquic Argiudolls the depth needed to document the indice Horizon 1 2 3	Color 10YR 10YR 2.5Y	Matrix (Moist) 3/1 3/1 4/2	% 100 98 90	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, Cs Red Color (Moist)  3/3 4/4	S=Covered/Coated Sand G dox Features % 2 10	Type C C	Location  M M	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8	e: pegroup): ption (Describe to the sound of	Martinton silt loam Aquic Argiudolls ne depth needed to document the indice Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/1 3/1	% 100 98	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, Cs Red Color (Moist)  3/3	s=Covered/Coated Sand G dox Features % 2	Type C	Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam
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Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 14	pgroup):  ption (Describe to II  Bottom Depth  8  14  20	Martinton silt loam Aquic Argiudolls ne depth needed to document the indice Horizon 1 2 3	Color 10YR 10YR 2,5Y	Matrix (Moist) 3/1 3/1 4/2 	% 100 98 90 	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 3/3 4/4	S=Covered/Coated Sand G dox Features % 2 10	Type  C C	Location M M	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 14	Bottom Depth 8 14 20	Martinton silt loam Aquic Argiudolls ne depth needed to document the indice Horizon 1 2 3	Color 10YR 10YR 2.5Y  	Matrix (Moist) 3/1 3/1 4/2   	% 100 98 90   	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 3/3 4/4	S=Covered/Coated Sand G dox Features % 2 10	Type  C C	Location  M M	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 14 NRCS Hydric:	Degroup): Degroup): Describe to 10 Depth  8 14 20 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Martinton silt loam Aquic Argiudolls te depth needed to document the indice Horizon  1 2 3 dicators (check here to pipedon stic n Sulfide d Layers luck and Below Dark Surface luck Mineral	Color 10YR 10YR 2.5Y  	Matrix (Moist)  3/1  3/1  4/2    cators an	% 100 98 90   	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, Cs Red Color (Moist) 3/3 4/4	S=Covered/Coated Sand G dox Features  % 2 10 Indicators	Type C C C 5 for Problem A16 - Coast S7 - Dark St F12 - Iron-M Other (Expla	Location  M M	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 14 NRCS Hydric	Degroup): Degroup): Describe to 10 Depth  8 14 20 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Martinton silt loam Aquic Argiudolls the depth needed to document the indice Horizon  1 2 3 dicators (check here bipedon stic n Sulfide I Layers luck ad Below Dark Surface luck Mineral luck Mineral luck Peat or Peat	Color 10YR 10YR 2.5Y  	Matrix (Moist)  3/1  3/1  4/2    cators an	% 100 98 90	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, Cs Red Color (Moist) 3/3 4/4	S=Covered/Coated Sand G dox Features  % 2 10 Indicators	Type  C C C 5 for Problem A16 - Coasts S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M M	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay es
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 14 NRCS Hydric	Degroup): Degroup): Describe to the state of	Martinton silt loam Aquic Argiudolls the depth needed to document the indice Horizon  1 2 3 dicators (check here bipedon stic n Sulfide I Layers luck ad Below Dark Surface luck Mineral luck Mineral luck Peat or Peat	Color 10YR 10YR 2.5Y  	Matrix (Moist) 3/1 3/1 4/2	% 100 98 90	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, Cs Red Color (Moist) 3/3 4/4	S=Covered/Coated Sand G dox Features  % 2 10 Indicators  ¹ Indicators of hydrophy	Type  C C C 5 for Problem A16 - Coasts S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M M	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay es urface

Sample Point W7-1w



Project/Site: Emerald Park Landfill - Western Expansion

## WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID:

W7

**VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2 Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) 3. 4. Total Number of Dominant Species Across All Strata: 4 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: 10. OBL spp. x 1 = 25 Total Cover = 0 FACW spp. 0 x 2 = 0 x 3 = 6 \_\_\_ FAC spp. 18 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 1. UPL spp. 0 x 5= 2. 3. Total 33 (A) 51 (B) 4. 5. Prevalence Index = B/A = 1.545 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Rapid Test for Hydrophytic Vegetation ☐ Yes ☑ No 10. ----\_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = 0 ✓ Yes □ No Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* TYPHA ANGUSTIFOLIA OBL 15 1. \* Indicators of hydric soil and wetland hydrology must be 2. Rorippa palustris 5 **OBL** present, unless disturbed or problematic. OBL 3. Ranunculus sceleratus 5 4. PLANTAGO MAJOR 5 FAC **Definitions of Vegetation Strata:** TRIFOLIUM PRATENSE N FACU 5. **FACU** Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 Amaranthus retroflexus 1 Ν breast height (DBH), regardless of height. 7. Panicum capillare Ν FAC 1 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 33 Woody Vine Stratum (Plot size: 30 ft radius) 1. 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = 0 Sample point is located in a farmed wetland, dominated by bare soil on perimeter due to crop stress. Adjacent portions of field have recently Remarks: harvested soybean stubble interpreted to be healthy. Additional Remarks:



Project/Site:	Emerald Pa	ark Landfill - Wester	rn Expan	sion			Stantec Project #:	193702557		Date:	10/23/14
Applicant:		Disposal Services, I	INC							County:	Waukesha
Investigator #1:				Invest	igator #2:					State:	Wisconsin
Soil Unit:	•	y silty clay loam		_			VI/WWI Classification	: N/A		Wetland ID:	Adj to W8
Landform:	Hill Slope				al Relief:			<b>.</b> .		Sample Point:	
Slope (%):	0-2	<u>Latitude:</u>			ongitude:			Datum:	_	l '	Agricultural Field
		litions on the site ty				(If no, expla	mini remarks)	☑ Yes □		Section:	36
		or Hydrology 🗖 sig					Are normal circumst		12	Township:	5 N
		or Hydrology 🔲 nat	turally pr	oblemati	C?		☐ Yes	⊡No		Range:	20 E
SUMMARY OF				- 17				FI 11 0 0			- 0 - 1
Hydrophytic Ve					□ No			Hydric Soils		A (1) 1 A \ A \ A	☑ Yes ☐ No
Wetland Hydrol			E Daniel G		☑ No		Date has hid to be a			Within A Wetla	
Remarks:							Point located in an a	igricultural neli	with poter	itial hydrologic	cal manipulations.
	Normal Circ	cumstances assume	ed nor bu	esent F	SA SHIDES	indicate	uplands:				
HYDROLOGY											
Wetland Hydro	ology Indica	tors (Check here if	indicato	rs are no	t present	□):					
<u>Primary:</u>		TA CONT				3			Secondary:		
	A1 - Surface				B9 - Wate					E6 - Surface So	
	A2 - High Wa A3 - Saturation				B13 - Aqu B14 - True					E10 - Drainage C2 - Dry-Seaso	
	B1 - Water M				C1 - Hydro					C8 - Crayfish B	
	B2 - Sedimer						spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep						educed Iron		_		Stressed Plants
	B4 - Algal Ma						duction in Tilled Soils			□2 - Geomorph	
	B5 - Iron Dep	osits on Visible on Aerial Ima	anery		C7 - Thin D9 - Gauc				✓	□5 - FAC-Neutr	ai i est
		Vegetated Concave S			Other (Ex						
		· ·					,				
Field Observat	ions:										
Surface Water I		☐ Yes ☑ No	Depth:		(in.)						
Water Table Pro		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes ☑ No
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)						
			•		` '	!	diama) if accellately		Annual Cram	Clide Deview	
		eam gauge, monitorir								Slide Review	
Remarks:	No primary	nvarology indicator									
								cation and goi	ng south ar	nd east, and fi	eld review also includes
0011.0		lope. Couldn't inter						cation and goi	ng south ar	nd east, and fi	eld review also includes
SOILS	a convex sl	lope. Couldn't inter	pret crop	stress d		ent plowi	ng.		ng south ar	nd east, and the	eld review also includes
Map Unit Name	a convex sl	ope. Couldn't inter	pret crop lay loam	stress d		ent plowi			ng south ar	nd east, and th	eld review also includes
Map Unit Name Taxonomy (Sub	a convex sl	Montgomery silty c	pret crop lay loam	stress d	lue to rec	ent plowi	ng. Series Drainage Class	: very poorly			eld review also includes
Map Unit Name Taxonomy (Sub <b>Profile Descrip</b>	a convex sl	Montgomery silty c	pret crop lay loam	stress of	lue to rec	ent plowi	ng. Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS	: very poorly			
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Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	a convex si	Montgomery silty of Vertic Endoaquolls to depth needed to document the indirection	lay loam s icator or confirm Color	the absence of in Matrix (Moist)	ndicators.) (Type:	ent plowi	ng. Series Drainage Class n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	: very poorly  S=Covered/Coated Sand C  dox Features  %	Grains; Location: PL=	Pore Lining, M=Matrix)  Location	(e.g. clay, sand, loam)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	a convex si	Montgomery silty covertic Endoaquolls to depth needed to document the individual Horizon	lay loam s icator or confirm Color 10YR	the absence of ii  Matrix (Moist)  2/1	ndicators.) (Type:	C=Concentration	ng. Series Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)	: very poorly s=Covered/Coated Sand C dox Features %	Grains; Location: PL=	Pore Lining, M=Matrix)  Location	Texture (e.g. clay, sand, loam) silty clay loam
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Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric S	Bottom Depth 8 24 Soil Field In A1- Histosol	Montgomery silty of Vertic Endoaquolls to depth needed to document the individual to	lay loam S icator or confirm  Color 10YR 10YR	the absence of in Matrix (Moist)  2/1  6/1     cators an	we to reconditional distribution of the control of	C=Concentratio	ng. Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/6	: very poorly  S=Covered/Coated Sand of dox Features  %  40 Indicators	Type  Type  C	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric S	a convex sl  convex sl	Montgomery silty of Vertic Endoaquolls to depth needed to document the individual to	lay loam S icator or confirm  Color 10YR 10YR	the absence of in Matrix (Moist)  2/1  6/1    cators an	we to recondicators.) (Type:  % 100 60	C=Concentration  10YR  sent  y Gleyed y Redox	ng. Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red Color (Moist) 5/6	S=Covered/Coated Sand of dox Features %6 40 Indicators	Type  Type  C      s for Problem  A16 - Coast S7 - Dark St	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric	a convex si	Montgomery silty covertic Endoaquolls to depth needed to document the individual to the the indivi	lay loam S icator or confirm  Color 10YR 10YR	the absence of in Matrix (Moist)  2/1 6/1 Cators an	midicators.) (Type:  % 100 60 en not press \$4 - Sand \$6 - Stripp	C=Concentration  10YR  sent	ng. Series Drainage Class  Rec Color (Moist)  5/6	: very poorly  s=covered/Coated Sand of dox Features  %   40     Indicators	Type  C s for Problen A16 - Coast S7 - Dark St F12 - Iron-M	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric S	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic Eg. A3 - Black Hi A4 - Hydroge	Montgomery silty of Vertic Endoaquolls Price Indoaquolls Price Ind	lay loam S icator or confirm  Color 10YR 10YR	the absence of in Matrix (Moist)  2/1  6/1    cators an	% 100 60 en not press \$4 - Sand \$5 - Sartipp F1 - Loam	c=Concentratio	ng. Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/6       Watrix	: very poorly  S=Covered/Coated Sand of dox Features  %  40     Indicators	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark St  F12 - Iron-M  TF12 - Very	Location  Location  M	Texture (e.g. clay, sand, loam) silty clay loam clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric S	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Montgomery silty of Vertic Endoaquolls to depth needed to document the indi Horizon  1 2 dicators (check he oppedon stic in Sulfide d Layers	lay loam S icator or confirm  Color 10YR 10YR	the absence of it  Matrix (Moist)  2/1  6/1	we to reconditional form of the second secon	c=Concentration  10YR  10YR  y Gleyed y Redox y Redox y Redox y Redox y Muck M ny Gleyed y Gleyed	ng. Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red Color (Moist)  5/6	: very poorly  S=Covered/Coated Sand of dox Features  %  40     Indicators	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark St  F12 - Iron-M  TF12 - Very	Pore Lining, M=Matrix)  Location   M	Texture (e.g. clay, sand, loam) silty clay loam clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric S	Bottom Depth 8 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratiffec A10 - 2 cm M	Montgomery silty of Vertic Endoaquolls to depth needed to document the individual to	lay loam Sicator or confirm 10YR 10YR	the absence of in Matrix (Moist)  2/1  6/1    cators an	% 100 60 e not pres S4- Sand S5- Sand S6- Stripp F1- Loam F3- Deple	C=Concentration  10YR   10YR    y Gleyed y Redox oed Matrix in y Muck M by Gleyed eted Matrix	ng. Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red Color (Moist)  5/6	: very poorly  S=Covered/Coated Sand of dox Features  %  40     Indicators	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark St  F12 - Iron-M  TF12 - Very	Location  Location  M	Texture (e.g. clay, sand, loam) silty clay loam clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric S	sconvex slave a convex slave a conve	Montgomery silty of Vertic Endoaquolls to Vertic Endoaquolls to depth needed to document the individual to the the individual t	lay loam Sicator or confirm 10YR 10YR	the absence of in Matrix (Moist)  2/1  6/1  cators an	we to reconditional form of the second secon	C=Concentration  10YR   10YR   y Gleyed y Redox poed Matrix ny Muck M ny Muck M ny Muck M ny Gleyed eted Matrix x Dark Su	ng. Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 5/6	: very poorly  S=Covered/Coated Sand of dox Features  %  40     Indicators	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark St  F12 - Iron-M  TF12 - Very	Location  Location  M	Texture (e.g. clay, sand, loam) silty clay loam clay
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric :	Bottom Depth  A1- Histosol  A2 - Histic Epth  A3 - Black Hi  A4 - Hydroge  A5 - Stratifier  A10 - 2 cm M  A11 - Deplett  A12 - Thick E  S1 - Sandy M	Montgomery silty of Vertic Endoaquolls Vertic Endoaquolls to depth needed to document the individual Horizon  1 2 dicators (check here is sufficient to sulfide dicators to sulfid	lay loam Sicator or confirm 10YR 10YR	the absence of in Matrix (Moist) 2/1 6/1	we to recondicators.) (Type:  % 100 60	c=Concentration  10YR  1	ng. Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Rec  Color (Moist)   5/6      Watrix  Ineral Matrix  Crace Surface Surface	: very poorly  S=Covered/Coated Sand of dox Features	Type  Type  C     5 for Problen  A16 - Coast S7 - Dark S7	Location  Location  M	Texture (e.g. clay, sand, loam) silty clay loam clay es
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric:	Bottom Depth  A1- Histosol  A2 - Histic Epth  A3 - Black Hi  A4 - Hydroge  A5 - Stratifier  A10 - 2 cm M  A11 - Deplett  A12 - Thick E  S1 - Sandy M	Montgomery silty of Vertic Endoaquolls Vertic Endoaquolls Horizon  1 2 dicators (check he bipedon stic n Sulfide I Layers luck ed Below Dark Surface warfs of Vertic Endoaquolls (check Surface warfs Surface and Surface silvers and Surface warfs Surface vertical to Vertical Surface warfs Surface vertical Vertical Surface vertical Vertical Surface vertical Vertical Vertical Surface vertical	lay loam Sicator or confirm 10YR 10YR	the absence of in Matrix (Moist) 2/1 6/1	% 100 60	c=Concentration  10YR  1	ng. Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Rec  Color (Moist)   5/6      Watrix  Ineral Matrix  Crace Surface Surface	: very poorly  S=Covered/Coated Sand of dox Features	Type  Type  C     5 for Problen  A16 - Coast S7 - Dark S7	Location  Location  M	Texture (e.g. clay, sand, loam) silty clay loam clay es
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric S	Bottom Depth  A1- Histosol  A2 - Histic Epth  A3 - Black Hi  A4 - Hydroge  A5 - Stratifier  A10 - 2 cm M  A11 - Deplett  A12 - Thick E  S1 - Sandy M	Montgomery silty of Vertic Endoaquolls Vertic Endoaquolls e depth needed to document the indi Horizon  1 2	lay loam Sicator or confirm 10YR 10YR	the absence of in Matrix (Moist) 2/1 6/1	% 100 60 en not press \$4 - Sand \$5 - Sand \$5 - Sarbip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	c=Concentration  10YR  1	ng. Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Rec  Color (Moist)   5/6      Watrix  Ineral Matrix  Crace Surface Surface	: very poorly  S=Covered/Coated Sand of dox Features	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark St  F12 - Iron-M  TF12 - Very  Other (Expla	Location  Location  M	Texture (e.g. clay, sand, loam) silty clay loam clay
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Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric S	sconvex slave a convex slave a conve	Montgomery silty of Vertic Endoaquolls to Vertic Endoaquolls to depth needed to document the individual to the individua	lay loam Sicator or confirm 10YR 10YR	the absence of in Matrix (Moist)  2/1  6/1    cators an	we to reconditional distribution of the control of	C=Concentration  10YR   10YR   y Gleyed y Redox ped Matrix y Muck Mingy Gleyed ted Matrix x Dark Sueted Dark x Depress	ng. Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 5/6	: Very poorly  S=Covered/Coated Sand of dox Features  %  40     Indicators of hydrophysics of hydroph	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark St  F12 - Iron-M  TF12 - Very  Other (Expla	Location  Location  M	Texture (e.g. clay, sand, loam) silty clay loam clay es urface



Wetland ID: Adj to W8 Sample Point W8-1u Project/Site: Emerald Park Landfill - Western Expansion **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. Total Number of Dominant Species Across All Strata: 2 (B) 4. 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: 10. OBL spp. x 1 = FACW spp. Total Cover = 0 15 x 2 = 30 x 3 = FAC spp. 20 60 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 0 0 1. UPL spp. 0 x 5= 2. 3. Total 35 (A) 90 4. 5. Prevalence Index = B/A = 2.571 6. 7. **Hydrophytic Vegetation Indicators:** 8. 9. Rapid Test for Hydrophytic Vegetation ☐ Yes ☑ No 10. --\_\_ \_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = 0 ✓ Yes □ No Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☑ No Problem Hydrophytic Vegetation (Explain) \* Agrostis hyemalis 20 FAC \* Indicators of hydric soil and wetland hydrology must be 2. ECHINOCHLOA CRUS-GALLI **FACW** 15 present, unless disturbed or problematic. 3. --**Definitions of Vegetation Strata:** 4. --5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 35 Woody Vine Stratum (Plot size: 30 ft radius) 1. 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4.

#### Additional Remarks:

5.

Remarks:

Hydrophytic vegetation and hydric soils were present, although both soils and vegetation were disturbed. A lack of primary hydrology indicators and a lack of consistent signatures in the FSA slides was interpreted to be uplands.

Soybean crop recently harvested and soils plowed, leaving only weeds. Could not include Glycine cover because stubble was not interpretive (cover

Total Cover =

or crop stress) due to plowing.

0



Project/Site:		ark Landfill - Wester		sion			Stantec Project #:	193702557		Date:	10/23/14
Applicant:		Disposal Services, I	NC							County:	Waukesha
Investigator #1				Invest	igator #2:			FOLE		State:	Wisconsin
Soil Unit: Landform:	Depression	ry silty clay loam		Loc	al Relief:		VI/WWI Classification:	FUKT		Wetland ID: Sample Point:	W8
Slope (%):	1-2	Latitude:	N/A		ongitude:		5	Datum:	N/A		Farmed Wetland
		litions on the site type					m in remarks)		No	Section:	36
		or Hydrology 🗆 sig					Are normal circumsta			Township:	5 N
		or Hydrology 🛚 nat					☐ Yes	☑No		Range:	20 E
SUMMARY OF											
Hydrophytic Ve					□ No			Hydric Soils			
Wetland Hydro			discussion.		□ No		thurst over 200 Manager			Within A Wetla	
Remarks: HYDROLOGY	because of	ated in a seasonally recent use for agric	r flooded cultural ci	rop and	nuenced presence	of annua	Itural activity. Normal al weed species	circumstance	s interprete	ed to be not me	et at this location
	valanı ludian	tore (Charle bare I	Sand Sand		d washington	-4					
vvetiand Hydi Primar		itors (Check here if	indicator	rs are no	r present	□):			Secondary:		
	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			E6 - Surface So	il Cracks
	A2 - High Wa				B13 - Aqu					E10 - Drainage	
	A3 - Saturation				B14 - True C1 - Hydr					C2 - Dry-Season C8 - Crayfish Bu	n Water Table Urrows
	B2 - Sedimer	nt Deposits			C3 - Oxidi	ized Rhizo	spheres on Living Roots		<b>V</b>	C9 - Saturation	Visible on Aerial Imagery
	B3 - Drift Dep						educed Iron			□1 - Stunted or	
	B4 - Algal Ma B5 - Iron Der				C6 - Rece		duction in Tilled Soils ace			D2 - Geomorphi	
	B7 - Inundati	on Visible on Aerial Ima			D9 - Gaug	ge or Well	Data			Es Tris House	a. 1001
E	B8 - Sparsely	/ Vegetated Concave S	Surface		Other (Ex	plain in Re	emarks)				
Field Observe	41										
Field Observa Surface Water		□ Vac □ No	Donth	0.5	(in )						
Water Table P		☑ Yes ☐ No ☑ Yes ☐ No	Depth: Depth:	0.5 10	(in.) (in.)			Wetland Hy	drology Pr	esent?	Yes □ No
Saturation Pre		☑ Yes ☐ No	Depth:	0	(in.)						
		eam gauge, monitorir		arial nhot	, ,	ue inener	tions) if available:		Annual Cror	Slide Review	
Remarks:		carri gauge, monitorii	ig weil, at	criai prioi	.oo, previo						
	FSA elidae	indicate wetlands a	t this loc	ation			71		<u> </u>		
Remarks.	FSA slides	indicate wetlands a	t this loca	ation.	·						
Remarks.	FSA slides	indicate wetlands a	t this loca	ation.							
	FSA slides	indicate wetlands a	t this loca	ation.	·		,		·		
SOILS Map Unit Nam				ation.		·		: very poorly	·		
SOILS Map Unit Nam Taxonomy (Su	e: lbgroup):	Montgomery silty cl Vertic Endoaquolls	lay loam			8	Geries Drainage Class:				
SOILS Map Unit Nam Taxonomy (Su	e: lbgroup):	Montgomery silty cl Vertic Endoaquolls	lay loam		ndicators.) (Type:	8	Geries Drainage Class:				
SOILS Map Unit Nam Taxonomy (Su Profile Descri	e:  bgroup):   <b>ption</b> (Describe to the     Bottom	Montgomery silty cl Vertic Endoaquolls	lay loam	he absence of i		8	Geries Drainage Class: n. D=Depletion, RM=Reduced Matrix, CS Rec	=Covered/Coated Sand G			Texture
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SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 6 22	e:   bigroup):   ption (Describe to It   Bottom   Depth   6   22   24	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indic  Horizon  1  2  3	Color 10YR 10YR 10YR	he absence of in Matrix (Moist) 2/1 4/2 5/1	% 100 95 90	C=Concentration	Series Drainage Class:  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/6  5/6	s=Covered/Coated Sand G dox Features % 5 10	Frains; Location: PL=  Type C C	Pore Lining, M=Matrix)  Location   M  M	(e.g. clay, sand, loam) silty clay loam clay clay
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 6 22	e: bbgroup): ption (Describe to the Bottom Depth 6 22 24	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indice Horizon 1 2 3	Color 10YR 10YR 10YR	he absence of i Matrix (Moist) 2/1 4/2 5/1	% 100 95 90 		Geries Drainage Class: n. D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/6 5/6	s=covered/Coated Sand G dox Features % 5 10	Type C C	Pore Lining, M=Matrix)  Location   M  M	(e.g. clay, sand, loam) silty clay loam clay clay
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SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 6 22 NRCS Hydric	e: blogroup): ption (Describe to the state of the state o	Montgomery silty cl Vertic Endoaquolls the depth needed to document the indice Horizon  1 2 3 dicators (check he objedon	Color 10YR 10YR 10YR	he absence of i Matrix (Moist) 2/1 4/2 5/1 cators ar	% 100 95 90 e not pres \$4 - Sand \$5 - Sand	C=Concentration  10YR  10YR  by Gleyed y Redox	Geries Drainage Class:  In, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)  5/6 5/6	s-covered/Coated Sand G dox Features % 5 10 Indicators	Type  C C s for Problem A16 - Coast S7 - Dark S6	Pore Lining, M=Matrix)  Location   M  M	(e.g. clay, sand, loam) silty clay loam clay clay
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SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 6 22 NRCS Hydric	e: bigroup): ption (Describe to it Bottom Depth 6 22 24 Soil Field In A2 - Histoic E[ A3 - Black Hi A4 - Hydroge A5 - Stratifies A10 - 2 cm M A11 - Deplete A12 - Thick E	Montgomery silty cl Vertic Endoaquolls  re depth needed to document the indice  Horizon  1  2  3     dicators (check he poipedon stic en Sulfide d Layers luck ed Below Dark Surface park Surfa	lay loam Sector or confirm to Color 10YR 10YR 10YR	he absence of i Matrix (Moist) 2/1 4/2 5/1 cators ar	% 100 95 90 e not pres \$4 - Sand \$5 - Sand \$6 - Stripi F1 - Loam F3 - Deple	C=Concentration  10YR  10YR  10YR	Series Drainage Class:  Rec Color (Moist)  5/6 5/6	s-covered/Coated Sand G dox Features % 5 10 Indicators	Type  C C s for Problen A16 - Coast S7 - Dark S1 F12 - Iron-M TF12 - Very	Pore Lining, M=Matrix)  Location  M M	(e.g. clay, sand, loam) silty clay loam clay clay es
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 6 22 NRCS Hydric	e: bgroup): ption (Describe to III) Bottom Depth 6 22 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplett A12 - Thick E S1 - Sandy M	Montgomery silty cl Vertic Endoaquolls  re depth needed to document the indice  Horizon  1  2  3     dicators (check he poipedon stic en Sulfide d Layers luck ed Below Dark Surface park Surfa	lay loam Sector or confirm to Color 10YR 10YR 10YR	he absence of i Matrix (Moist) 2/1 4/2 5/1 cators ar	% 100 95 90 e not pres \$4 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Red F7 - Deple	C=Concentration  10YR  10YR  10YR	Series Drainage Class:  Rec Color (Moist)  5/6 5/6	s-covered/Coated Sand of dox Features  % 5 10 Indicators	Type C C 5 for Problen A16 - Coast S7 - Dark St F12 - Iron-N Other (Expla	Pore Lining, M=Matrix)  Location   M  M        Prairie Redox  urface  langanese Masse  Shallow Dark St  ain in Remarks)	(e.g. clay, sand, loam) silty clay loam clay clay es
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 6 22 NRCS Hydric	e: bgroup): ption (Describe to III) Bottom Depth 6 22 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplett A12 - Thick E S1 - Sandy M	Montgomery silty cl Vertic Endoaquolls  re depth needed to document the indice  Horizon  1  2  3     dicators (check he poipedon stic en Sulfide d Layers luck ed Below Dark Surface duck Mineral acky Peat or Peat	Color 10YR 10YR 10YR re if indic	he absence of i Matrix (Moist) 2/1 4/2 5/1 cators ar	% 100 95 90 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo	C=Concentration  10YR  10YR  10YR	Series Drainage Class:  Rec Color (Moist)  5/6 5/6	s-covered/Coated Sand of dox Features  % 5 10 Indicators	Type  C C s for Problen A16 - Coast F12 - Iron-N TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location  M M	(e.g. clay, sand, loam) silty clay loam clay clay es
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 6 22 NRCS Hydric  Restrictive Layer (If Observed)	e: blogroup): ption (Describe to It Bottom Depth 6 22 24 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm M Type:	Montgomery silty cl Vertic Endoaquolls  the depth needed to document the indice  Horizon  1 2 3	lay loam Sector or confirm to Color 10YR 10YR 10YR	he absence of i Matrix (Moist) 2/1 4/2 5/1 cators ar	% 100 95 90 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo	C=Concentration  10YR  10YR  10YR	Series Drainage Class:  Rec Color (Moist)  5/6 5/6	s-covered/Coated Sand G dox Features  % 5 10 Indicators  Indicators of hydrophy	Type  C C s for Problen A16 - Coast F12 - Iron-N TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location  M M	(e.g. clay, sand, loam) silty clay loam clay clay es urface
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 6 22 NRCS Hydric	e: blogroup): ption (Describe to It Bottom Depth 6 22 24 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm M Type:	Montgomery silty cl Vertic Endoaquolls  re depth needed to document the indice  Horizon  1  2  3     dicators (check he poipedon stic en Sulfide d Layers luck ed Below Dark Surface duck Mineral acky Peat or Peat	lay loam Sector or confirm to Color 10YR 10YR 10YR	he absence of i Matrix (Moist) 2/1 4/2 5/1 cators ar	% 100 95 90 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo	C=Concentration  10YR  10YR  10YR	Series Drainage Class:  Rec Color (Moist)  5/6 5/6	s-covered/Coated Sand G dox Features  % 5 10 Indicators  Indicators of hydrophy	Type  C C s for Problen A16 - Coast F12 - Iron-N TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location  M M	(e.g. clay, sand, loam) silty clay loam clay clay es urface
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 6 22 NRCS Hydric  Restrictive Layer (If Observed)	e: blogroup): ption (Describe to It Bottom Depth 6 22 24 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm M Type:	Montgomery silty cl Vertic Endoaquolls  the depth needed to document the indice  Horizon  1 2 3	lay loam Sector or confirm to Color 10YR 10YR 10YR	he absence of i Matrix (Moist) 2/1 4/2 5/1 cators ar	% 100 95 90 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo	C=Concentration  10YR  10YR  10YR	Series Drainage Class:  Rec Color (Moist)  5/6 5/6	s-covered/Coated Sand G dox Features  % 5 10 Indicators  Indicators of hydrophy	Type  C C s for Problen A16 - Coast F12 - Iron-N TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location  M M	(e.g. clay, sand, loam) silty clay loam clay clay es urface

Sample Point W8-1w



Emerald Park Landfill - Western Expansion

Project/Site:

### WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID:

W8

**VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. 7. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: x 1 = 10. OBL spp. Total Cover = 0 FACW spp. 30 x 2 = 60 x 3 = FAC spp. 15 45 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 0 0 1. UPL spp. 0 x 5= 2. 3. Total 45 (A) 105 4. 5. Prevalence Index = B/A = 2.333 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. ☐ Yes Rapid Test for Hydrophytic Vegetation ☑ No 10. --\_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = 0 ✓ Yes □ No Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* ECHINOCHLOA CRUS-GALLI **FACW** 1. 30 \* Indicators of hydric soil and wetland hydrology must be 2. Agrostis hyemalis 15 FAC present, unless disturbed or problematic. 3. --4. **Definitions of Vegetation Strata:** --5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 45 Woody Vine Stratum (Plot size: 30 ft radius) 1. 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = 0 Remarks: Sample point is located in a low quality farmed wetland. Location disturbed due to recent cropping and plowing, only annual weeds present.

#### Additional Remarks:

١	Wetland primarily determined on the basis of water table depth and FSA slide review.
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Project/Site:		ark Landfill - Wester		sion			Stantec Project #:	193702557		Date:	10/23/14
Applicant:	Advanced	Disposal Services, I	NC							County:	Waukesha
Investigator #1:				Invest	igator #2:					State:	Wisconsin
Soil Unit:	Montgome	y silty clay loam				NV	VI/WWI Classification:	N/A		Wetland ID:	Adj to W9
Landform:	Hill Slope			Loc	cal Relief:	Convex				Sample Point:	W9-1u
Slope (%):	1-2	Latitude:			ongitude:			Datum:	N/A	Community ID:	Agricultural Field
Are climatic/hyd	drologic cond	litions on the sile type	oical for	this time	of year?	(If no, expla	mini remarks)	☑ Yes ☐	No	Section:	36
Are Vegetation	☑, Soil ☑,	or Hydrology 🗆 sig	nificantly	disturbe	ed?		Are normal circumsta	ances present	?	Township:	5 N
		or Hydrology 🛘 nat					☐ Yes	☑No		Range:	20 E
SUMMARY OF		, 0,		10171 (24)						ŭ	
Hydrophytic Ve		sent?		7 Yes	□ No			Hydric Soils	Present?		☐ Yes ☑ No
Wetland Hydrol	•				□ No					Within A Wetla	
Remarks:			shomal				Point located in an ag				
Tremane.	, intoocach	THOISTAIC CONGLECT.	3 110111101	20000	11 17210	curcily sie	T OILL TOUBLE A IT AT A	discussion in the	. Homai d	ii odiniotanoco	not procent.
HYDROLOGY											
Wetland Hydro	ology Indica	itors (Check here if	indicato	rs are no	t present	E):					
<u>Primary</u>		PALE							Secondary:		
	A1 - Surface				B9 - Wate					E6 - Surface So	
	A2 - High Wa				B13 - Aqu					E10 - Drainage	
	A3 - Saturation B1 - Water M				B14 - True C1 - Hydr					C2 - Dry-Season C8 - Crayfish Bu	
				ä			spheres on Living Roots				Visible on Aerial Imagery
							educed Iron			D1 - Stunted or	
	B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorphi	
					C7 - Thin	Muck Surf	ace			D5 - FAC-Neutra	
		on Visible on Aerial Ima			D9 - Gaug						
	B8 - Sparsely	/ Vegetated Concave S	urface		Other (Ex	plain in Re	emarks)				
Field Observat	tions:										
Surface Water	Present?	☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Dr	ocont?	Yes ☑ No
Water Table Pr	esent?	☑ Yes ☐ No	Depth:	29	(in.)			wetianu ny	urology Fi	esent:	ies Mino
Saturation Pres	ent?	☑ Yes ☐ No	Depth:	27	(in.)						
Doscribo Pocoro	lod Data (str	eam gauge, monitorir	a woll a	orial phot	os provio	ue inenoc	tions) if available:		Annual Cror	Slide Review	
							<u> </u>	alianta continua			land to CM
Remarks:	No primary	wetiand nydrology i	ndicator	s presen	it, contras	ting with	W9-1w. FSA slides in	idicate upland	is in this io	cation and wet	iand to Svv.
SOILS								<u> </u>			
Map Unit Name		Montgomery silty cl					Series Drainage Class:	very poorly			
Taxonomy (Sub		Vertic Endoaquolls									
		ne depth needed to document the indic	cator or confirm		ndicators.) (Type:	C=Concentratio	on, D=Depletion, RM=Reduced Matrix, CS		rains; Location: PL=	Pore Lining, M=Matrix)	T + (
Тор	Bottom			Matrix				lox Features			Texture
Depth	Depth	Horizon		(Moist)	%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
0	14	1	10YR	3/1	100						silty clay loam
14	26	2	10YR	5/4	65	10YR	5/6	35	С	M	clay
	<u> </u>										
		<del></del>			<del></del>						<u></u>
	<del></del>										
					<u></u>						
		dicators (check he	re if indic						for Problen		
	A1- Histosol				S4 - Sand		Matrix			Prairie Redox	
							_		S7 - Dark Si		
	A2 - Histic E								r IZ - Iron-iv	langanese Masse	
	A2 - Histic E <sub>l</sub> A3 - Black H	stic			S6 - Strip						
	A2 - Histic E <sub>I</sub> A3 - Black Hi A4 - Hydroge	stic n Sulfide			F1 - Loam	ny Muck M	ineral		TF12 - Very	Shallow Dark Su	
	A2 - Histic E <sub>I</sub> A3 - Black Hi A4 - Hydroge A5 - Stratified	stic n Sulfide d Layers			F1 - Loam	ny Muck M ny Gleyed	ineral Matrix		TF12 - Very		
	A2 - Histic E <sub>I</sub> A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M	stic en Sulfide d Layers luck			F1 - Loam F2 - Loam F3 - Deple	ny Muck M ny Gleyed eted Matrix	ineral Matrix ĸ		TF12 - Very	Shallow Dark Su	
	A2 - Histic E <sub>I</sub> A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete	stic en Sulfide d Layers luck ed Below Dark Surface			F1 - Loam F2 - Loam F3 - Deple F6 - Redo	ny Muck M ny Gleyed eted Matrix nx Dark Su	ineral Matrix x rface		TF12 - Very	Shallow Dark Su	
	A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E	stic en Sulfide d Layers luck ed Below Dark Surface Dark Surface			F1 - Loam F2 - Loam F3 - Deple	ny Muck M ny Gleyed eted Matrix ox Dark Su eted Dark	ineral Matrix x rface Surface		TF12 - Very	Shallow Dark Su	
	A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick D S1 - Sandy M	stic en Sulfide d Layers luck ed Below Dark Surface Dark Surface			F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	ny Muck M ny Gleyed eted Matrix ox Dark Su eted Dark	ineral Matrix x rface Surface		TF12 - Very Other (Expla	Shallow Dark Su ain in Remarks)	ırface
Restrictive Layer	A2 - Histic E <sub>I</sub> A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mu	stic en Sulfide d Layers luck ed Below Dark Surface Dark Surface luck Mineral ucky Peat or Peat			F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	ny Muck M ny Gleyed eted Matrix ox Dark Su eted Dark	ineral Matrix x rface Surface	1 Indicators of hydrophy	TF12 - Very Other (Expla	Shallow Dark Suain in Remarks)	ufface s present, unless disturbed or problematic.
Restrictive Layer (If Observed)	A2 - Histic E <sub>1</sub> A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mc	stic on Sulfide d Layers lluck ed Below Dark Surface bark Surface fluck Mineral lucky Peat or Peat	andhe - L	Depth:	F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	ny Muck M ny Gleyed eted Matrix ox Dark Su eted Dark	ineral Matrix x rface Surface		TF12 - Very Other (Expla	Shallow Dark Suain in Remarks)	
Restrictive Layer	A2 - Histic E <sub>1</sub> A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mc	stic en Sulfide d Layers luck ed Below Dark Surface Dark Surface luck Mineral ucky Peat or Peat	ently plov	Depth:	F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	ny Muck M ny Gleyed eted Matrix ox Dark Su eted Dark	ineral Matrix x rface Surface	1 Indicators of hydrophy	TF12 - Very Other (Expla	Shallow Dark Suain in Remarks)	ufface s present, unless disturbed or problematic.
Restrictive Layer (If Observed)	A2 - Histic E <sub>1</sub> A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mc	stic on Sulfide d Layers lluck ed Below Dark Surface bark Surface fluck Mineral lucky Peat or Peat	ently plov	Depth:	F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	ny Muck M ny Gleyed eted Matrix ox Dark Su eted Dark	ineral Matrix x rface Surface	1 Indicators of hydrophy	TF12 - Very Other (Expla	Shallow Dark Suain in Remarks)	ufface s present, unless disturbed or problematic.
Restrictive Layer (If Observed)	A2 - Histic E <sub>1</sub> A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mc	stic on Sulfide d Layers lluck ed Below Dark Surface bark Surface fluck Mineral lucky Peat or Peat	ently plov	Depth:	F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	ny Muck M ny Gleyed eted Matrix ox Dark Su eted Dark	ineral Matrix x rface Surface	1 Indicators of hydrophy	TF12 - Very Other (Expla	Shallow Dark Suain in Remarks)	ufface s present, unless disturbed or problematic.

Wetland ID: Adj to W9 Sample Point W9-1u

\* Indicators of hydric soil and wetland hydrology must be

Tree - Woody plants 3 in. (7.6cm) or more in diameter at

breast height (DBH), regardless of height.

Herb - All herbaceous (non-woody) plants, regardless of size,

and woody plants less than 3.28 ft. tall.

Hydrophytic Vegetation Present ☑ Yes ☐ No

Woody Vines - All woody vines greater than 3.28 ft. in height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28

present, unless disturbed or problematic.

**Definitions of Vegetation Strata:** 



Emerald Park Landfill - Western Expansion

ECHINOCHLOA CRUS-GALLI

Project/Site:

#### WETLAND DETERMINATION DATA FORM Midwest Region

**VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: 10. OBL spp. x 1 = FACW spp. Total Cover = 0 20 x 2 = 40 x 3 = FAC spp. 0 0 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 0 0 1. UPL spp. 0 x 5= 2. 3. Total 20 (A) 40 4. 5. Prevalence Index = B/A = 2.000 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Rapid Test for Hydrophytic Vegetation ☐ Yes ☑ No 10. --\_\_ \_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = 0 ☑ Yes □ No Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \*

FACW

20

20

0 Soybean crop recently harvested and soils plowed, leaving only annual weeds.

Total Cover =

Total Cover =

#### Additional Remarks:

1.

2.

3. 4.

5.

6

7. 8.

9. 10. 11.

12.

13. 14.

15.

1. 3.

4. 5.

Remarks:

Woody Vine Stratum (Plot size: 30 ft radius)

Hydrophytic vegetation present; soils and vegetation significantly disturbed. Upland determination was primarily based on a observed water table depths along a transect and FSA slides lacking consistent signature.



Project/Site:	Emerald Pa	ark Landfill - Wester	n Expans	sion			Stantec Project #:	193702557		Date:	10/23/14
Applicant:		Disposal Services, I	NC							County:	Waukesha
Investigator #1:				Investi	gator #2:					State:	Wisconsin
Soil Unit:	•	ry silty clay loam					/I/WWI Classification:	F0Kf		Wetland ID:	W9
Landform:	Depression		NI/A		al Relief:		9	Datum	NI/A	Sample Point:	
Slope (%):	0-2	<u>Latitude:</u>			ongitude:		and a mark high	Datum:  ☑ Yes ⊔		Community ID: Section:	Farmed Wetland 36
		or Hydrology D sign					Are normal circumsta			Township:	5 N
		or Hydrology L sign						inces present ☑No		Range:	20 E
SUMMARY OF		of Flydrology = 113.	dienty be-	Dietiles.			- 12	E		Nange.	20 L
Hydrophytic Ve		sent?		7 Yes	□ No			Hydric Soils	Present?		
Wetland Hydrol					□ No					Within A Wetla	
Remarks:			edeni m								. Normal circumstances
							rual weed species with			-	
HYDROLOGY											
	ology Indica	ators (Check here if	indicator	s are no	toresent	131:					
Primary:		tore (enes. les	III III III III III	o die ile	i process.	<i>□</i> /·			Secondary:		
	A1 - Surface				B9 - Water					E6 - Surface So	
	A2 - High Wa A3 - Saturation				B13 - Aqua B14 - True					E10 - Drainage C2 - Dry-Seasor	
	B1 - Water M				C1 - Hydro					C8 - Crayfish Bu	
	B2 - Sedimer	nt Deposits			C3 - Oxidiz	zed Rhizos	spheres on Living Roots		V	C9 - Saturation	Visible on Aerial Imagery
	B3 - Drift Dep				C4 - Prese					D1 - Stunted or	
	B4 - Algal Ma B5 - Iron Dep				C6 - Recei		duction in Tilled Soils			□2 - Geomorphi □5 - FAC-Neutra	
	B7 - Inundation	on Visible on Aerial Ima			D9 - Gaug	e or Well I	Data		-	<u></u>	u. 102.
	B8 - Sparsely	y Vegetated Concave S	urface		Other (Exp	lain in Re	marks)				
	-										
Field Observat											
Surface Water I		☐ Yes ☑ No	Depth:	40	(in.)			Wetland Hyd	drology Pr	esent?	Yes □ No
Water Table Pro		☑ Yes □ No	Depth:	16	(in.)						
Saturation Pres		☑ Yes ☐ No	Depth:	5	(in.)						
Describe Record	led Data (stre	eam gauge, monitorir	ig well, as	erial photo	os previoi	us inspec	tions) if available:		Annual Cron	Slide Review	
									7 tilliadi Olop		
Remarks:	FSA slides	indicate wetlands a							7 iiiiddi Orop		
Remarks:	FSA slides								7 illiadi Grop		
	FSA slides										
SOILS		indicate wetlands a	t this loca			ket most <b>l</b>	y going south.		, umaar orop		
SOILS Map Unit Name	:	indicate wetlands at Montgomery silty cl	t this loca			ket most <b>l</b>		very poorly	, amada Orop		
SOILS  Map Unit Name Taxonomy (Sub	: ogroup):	indicate wetlands at Montgomery silty cl	t this loca	ation and	l in a pocl	ket mostl	y going south. eries Drainage Class:				
SOILS Map Unit Name Taxonomy (Sub Profile Descrip	:: ogroup): o <b>tion</b> (Describe to th	indicate wetlands at Montgomery silty cl	t this loca	ation and	l in a pocl	ket mostl	y going south. eries Drainage Class:	=Covered/Coated Sand G			Tuhun
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top	:: ggroup): tion (Describe to the Bottom	Montgomery silty cl Vertic Endoaquolls	t this loca	ation and  he absence of in  Matrix	d in a pock	ket mostl S C=Concentration	y going south.  eries Drainage Class:  DeDepleton, RM=Reduced Matrix, CS- Red	=Covered/Coated Sand G	rains; Location: PL=	Pore Lining, M=Matrix)	Texture
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	e: ogroup): <b>ition</b> (Describe to the Bottom Depth	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indice	lay loam	ation and the absence of in Matrix (Moist)	d in a pock	ket mostl S C=Concentration	y going south. eries Drainage Class:	=Covered/Coated Sand G lox Features %	rains; Location: PL=		(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group):  tion (Describe to tr  Bottom  Depth  12	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indice Horizon	lay loam cator or confirm the	he absence of in  Matrix (Moist)  2/1	d in a pock	S C=Concentration	y going south.  eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS- Red Color (Moist)	=Covered/Coated Sand G IOX Features %	rains, Location: PL=  Type	Pore Lining, M=Matrix)  Location	(e.g. clay, sand, loam) silty clay loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	egroup):  tion (Describe to the Depth 12 24	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indice Horizon 1 2	lay loam cator or confirm to Color ( 10YR 10YR	he absence of in  Matrix (Moist)  2/1  6/1	% 100 85	S C=Concentration 10YR	y going south.  eries Drainage Class:  DeDepleton, RM=Reduced Matrix, CS- Red Color (Moist)  5/6	=Covered/Coated Sand G lox Features % 15	rains; Location: PL=  Type   C	Pore Lining, M=Matrix)  Location  M	(e.g. clay, sand, loam) silty clay loam clay
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	group):  tion (Describe to the Depth 12 24	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indice Horizon 1 2	lay loam Sector or confirm to 10YR 10YR	he absence of in Matrix (Moist) 2/1 6/1	% 100 85	S C=Concentration  10YR	y going south.  eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS*  Red Color (Moist)   5/6	eCovered/Coated Sand Good Features % 15	Type  C	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam clay
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	egroup):  tion (Describe to the Depth 12 24	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indice Horizon 1 2	lay loam cator or confirm to Color ( 10YR 10YR	he absence of in  Matrix (Moist)  2/1  6/1	% 100 85	S C=Concentration 10YR	y going south.  eries Drainage Class:  DeDepleton, RM=Reduced Matrix, CS- Red Color (Moist)  5/6	=Covered/Coated Sand G lox Features % 15	rains; Location: PL=  Type   C	Pore Lining, M=Matrix)  Location  M	(e.g. clay, sand, loam) silty clay loam clay
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SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	group):  tion (Describe to the Depth 12 24	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indice Horizon 1 2	lay loam cater or confirm to 10YR 10YR	he absence of in Matrix (Moist) 2/1 6/1	% 100 85	S C=Concentration  10YR	y going south.  eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS- Red Color (Moist) 5/6	Covered/Coated Sand G	Type  C	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam clay
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	: group): tion (Describe to the Depth 12 24	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indice  Horizon  1  2	lay loam Color Color 10YR 10YR	he absence of in Matrix (Moist) 2/1 6/1	% 100 85 	S C=Concentration	y going south.  eries Drainage Class:  Red Color (Moist)   5/6		Type C	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam clay
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric :	: group): tion (Describe to the Depth   12	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indice Horizon 1 2	lay loam Color Color 10YR 10YR	he absence of in Matrix (Moist) 2/1 6/1 cators area	% 100 85 	S C-Concentration  10YR	y going south.  eries Drainage Class:  Red Color (Moist)  5/6	Covered/Coated Sand G	rains: Location: PL=  Type C for Problem	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam clay
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric S	Egroup):  stion (Describe to the Depth	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indice Horizon  1 2	lay loam Color Color 10YR 10YR	he absence of in Matrix (Moist) 2/1 6/1 cators are	% 100 85	S C=Concentration	y going south.  eries Drainage Class:  Red Color (Moist)  5/6	-Covered/Coated Sand G IOX Features % 15 Indicators	rains; Location: PL=  Type C for Problem A16 - Coast S7 - Dark Si	Pore Lining, M=Matrix)  Location   M      natic Soils <sup>1</sup> Prairie Redox	(e.g. clay, sand, loam) silty clay loam clay
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric 3	group):  tion (Describe to the Depth 12 24	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indice Horizon 1 2 dicators (check here)	lay loam Color Color 10YR 10YR	he absence of in Matrix (Moist)  2/1  6/1      ators are	% 100 85	S C=Concentration  10YR y Gleyed N y Redox y Redox	y going south.  eries Drainage Class:  Red Color (Moist)   5/6	Covered/Coated Sand G	rains: Location: PL=  Type C for Problen A16 - Coast S7 - Dark St F12 - Iron-M	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam clay
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric S	:: group): tion (Describe to the Depth   12	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indic Horizon  1 2 dicators (check hele) sistic an Sulfide	lay loam Color Color 10YR 10YR	he absence of in Matrix (Moist) 2/1 6/1 cators are	% 100 85	S  C=Concentration  10YR  y Gleyed N y Redox y Redox y Redox y Muck Mi	y going south.  eries Drainage Class:  Red Color (Moist)   5/6	Covered/Coated Sand G	rains; Location: PL=  Type C for Problen A16 - Coast \$7 - Dark \$0; F12 - Iron-M TF12 - Very	Pore Lining, M=Matrix)  Location  M	(e.g. clay, sand, loam) silty clay loam clay
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric S	:: group): tion (Describe to IT) Bottom Depth 12 24 Soil Field In A1- Histosol A3 - Black Hi A4 - Hydroge	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indice Horizon 1 2	lay loam Color Color 10YR 10YR	he absence of in Matrix (Moist) 2/1 6/1 cators are	% 100 85	SS C=Concentration  10YR y Gleyed N y Redox y Redox y Redox y Muck Mir y Gleyed N y Gleyed N	y going south.  eries Drainage Class:  Red Color (Moist)   5/6	Covered/Coated Sand G	rains; Location: PL=  Type C for Problen A16 - Coast \$7 - Dark \$0; F12 - Iron-M TF12 - Very	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam clay
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric S	Bottom Depth 12 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifica A10 - 2 cm M A11 - Deplete	Montgomery silty cl Vertic Endoaquolls The depth needed to document the indice Horizon  1 2 dicators (check here oppedon istic en Sulfide d Layers luck ed Below Dark Surface	lay loam cater or confirm to 10YR 10YR	he absence of in Matrix (Moist)  2/1  6/1   cators are	% 100 85	S  C=Concentration  10YR	y going south.  eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS- Red Color (Moist) 5/6	Covered/Coated Sand G	rains; Location: PL=  Type C for Problen A16 - Coast \$7 - Dark \$0; F12 - Iron-M TF12 - Very	Pore Lining, M=Matrix)  Location  M	(e.g. clay, sand, loam) silty clay loam clay
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric:	Bottom Depth 12 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indice Horizon  1 2	lay loam cater or confirm to 10YR 10YR	he absence of in Matrix (Moist) 2/1 6/1 cators are	% 100 85 e not pres \$4 - Sandy \$5 - Sandy \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo; F7 - Deple	S C=Concentration  10YR tent	y going south.  eries Drainage Class:  Red Color (Moist)  5/6	Covered/Coated Sand G	rains; Location: PL=  Type C for Problen A16 - Coast \$7 - Dark \$0; F12 - Iron-M TF12 - Very	Pore Lining, M=Matrix)  Location  M	(e.g. clay, sand, loam) silty clay loam clay
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric:	Bottom Depth 12 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M A11 - Deplets A12 - Thick D S1 - Sandy N	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indic Horizon  1 2 dicators (check her objection stic en Sulfide d Layers fluck ed Below Dark Surface Olark Surface Olark Mineral	lay loam cater or confirm to 10YR 10YR	he absence of in Matrix (Moist) 2/1 6/1 cators are	% 100 85	S C=Concentration  10YR tent	y going south.  eries Drainage Class:  Red Color (Moist)   5/6        Adtrix  face Surface ons	-Covered/Coated Sand G OX Features % 15 Indicators	rains; Location: PL=  Type C for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam clay
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric :	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indic Horizon  1 2 dicators (check her bipedon istic en Sulfide d Layers luck ed Below Dark Surface bark Surface fuck Mineral lucky Peat or Peat	lay loam cator or confirm to 10YR 10YR re if indic	he absence of in Matrix (Moist) 2/1 6/1 cators are	% 100 85 e not pres \$4 - Sandy \$5 - Sandy \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo; F7 - Deple F8 - Redo;	S C=Concentration  10YR tent	y going south.  eries Drainage Class:  Red Color (Moist)   5/6        Adtrix  face Surface ons	Covered/Coated Sand GOX Features % 15 Indicators Indicators of hydrophy	rains; Location: PL=  Type C for Problen A16 - Coast S7 - Dark St F12 - Very Other (Expla	Pore Lining, M=Matrix)  Location  M	(e.g. clay, sand, loam) silty clay loam clay es urface
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric:	Bottom Depth 12 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M A11 - Deplets A12 - Thick D S1 - Sandy N	Montgomery silty cl Vertic Endoaquolls he depth needed to document the indic Horizon  1 2 dicators (check her bipedon istic en Sulfide d Layers luck ed Below Dark Surface bark Surface fuck Mineral lucky Peat or Peat	lay loam cator or confirm to 10YR 10YR re if indic	he absence of in Matrix (Moist) 2/1 6/1 cators are	% 100 85 e not pres \$4 - Sandy \$5 - Sandy \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo; F7 - Deple	S C=Concentration  10YR tent	y going south.  eries Drainage Class:  Red Color (Moist)   5/6        Adtrix  face Surface ons	-Covered/Coated Sand G OX Features % 15 Indicators	rains; Location: PL=  Type C for Problen A16 - Coast S7 - Dark St F12 - Very Other (Expla	Pore Lining, M=Matrix)  Location  M	(e.g. clay, sand, loam) silty clay loam clay
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric 3	sigroup):  tion (Describe to the Depth	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indice Horizon  1 2	lay loam Color of Confirm to 10YR 10YR 10YR re if indic	he absence of in Matrix (Moist) 2/1 6/1 cators are	% 100 85 e not pres \$4 - Sandy \$5 - Sandy \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo; F7 - Deple F8 - Redo;	S  C=Concentration  10YR	y going south.  eries Drainage Class:  Red Color (Moist)   5/6        Adtrix  face Surface ons	Covered/Coated Sand Good Features   %     15	rains; Location: PL=  Type  C for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam clay es urface
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric :	sigroup):  tion (Describe to the Depth	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indice Horizon  1 2	lay loam Color of Confirm to 10YR 10YR 10YR re if indic	he absence of in Matrix (Moist) 2/1 6/1 cators are	% 100 85 e not pres \$4 - Sandy \$5 - Sandy \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo; F7 - Deple F8 - Redo;	S  C=Concentration  10YR	y going south.  eries Drainage Class:  DeDepletion, RM=Reduced Matrix, CS- Red Color (Moist) 5/6	Covered/Coated Sand Good Features   %     15	rains; Location: PL=  Type  C for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam clay es urface
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric :	sigroup):  tion (Describe to the Depth	Montgomery silty cl Vertic Endoaquolls ne depth needed to document the indice Horizon  1 2	lay loam Color of Confirm to 10YR 10YR 10YR re if indic	he absence of in Matrix (Moist) 2/1 6/1 cators are	% 100 85 e not pres \$4 - Sandy \$5 - Sandy \$6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo; F7 - Deple F8 - Redo;	S  C=Concentration  10YR	y going south.  eries Drainage Class:  DeDepletion, RM=Reduced Matrix, CS- Red Color (Moist) 5/6	Covered/Coated Sand Good Features   %     15	rains; Location: PL=  Type  C for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam clay es urface

Sample Point W9-1w



Project/Site: Emerald Park Landfill - Western Expansion

### WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID:

W9

**VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. 15 x 2 = 30 x 3 = FAC spp. 2 6 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 0 1. UPL spp. 0 x 5= 2. 3. Total 17 (A) 36 (B) 4. 5. Prevalence Index = B/A = 2.118 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. ☑ Yes Rapid Test for Hydrophytic Vegetation ☐ No 10. --\_\_ \_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = 0 ✓ Yes □ No Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* ECHINOCHLOA CRUS-GALLI **FACW** 1. 15 \* Indicators of hydric soil and wetland hydrology must be 2. Agrostis hyemalis 2 Ν FAC present, unless disturbed or problematic. 3. --4. **Definitions of Vegetation Strata:** --5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 17 Woody Vine Stratum (Plot size: 30 ft radius) 1. 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = 0 Sample point is located in a farmed wetland. Recent plowing limited evaluation of vegetation; approximately 90% of soil surface consisted of bare Remarks: Additional Remarks:



Project/Site:	Emerald Pa	ark Landfill - Weste	rn Expan	sion			Stantec Project #:	193702557	•	Date:	10/23/14
Applicant:		Disposal Services,	INC	_						County:	Waukesha
Investigator #1:				Invest	igator #2:			NI.		State:	Wisconsin
Soil Unit: Landform:	Montgomer Hill Slope	y siity ciay		امد	al Daliaf		VI/WWI Classification	: None		Wetland ID:	Adj to W10
	5-6	Latitude	· NI/A		cal Relief: ongitude:			Datum:	NI/A	Sample Point:	
Slope (%):		litions on the site ty					Archenney views	☑ Yes ☐		Section:	Agricultural Field 36
		or Hydrology 🗆 sig				и по, ехра	Are normal circumst			Township:	5 N
		or Hydrology □ sig or Hydrology □ na					☐ Yes	☑No	8.6	Range:	20 E
SUMMARY OF		or riyurology La na	turally pr	ODICINAL	C)		L (00	ENO		Range.	20 L
Hydrophytic Ve		cent?		7 Vec	□ No			Hydric Soils	Present?		☑ Yes ☐ No
Wetland Hydrol					□ No					Nithin A Wetla	
Remarks:			s normal				Point located in an a				
rtemants.		umstances assume			W. 64510	curely sic	I on located in an a	ig reditore non	with poter	iliai riyarologic	ai mampaiations.
	Troillia on c	amotanooo agounn	and thou lay	54517).							
HYDROLOGY								_			
			A 10	7.27		2007					
		itors (Check here it	indicato	rs are no	t present	□):					
Primary	A1 - Surface	\M/ater			B9 - Wate	r-Stained	Leaves		Secondary:	E6 - Surface So	ail Cracks
	A2 - High Wa				B13 - Aqu					E10 - Drainage	
	A3 - Saturation				B14 - True					C2 - Dry-Seaso	
	B1 - Water M				C1 - Hydro					C8 - Crayfish B	
	B2 - Sedimer B3 - Drift Der						spheres on Living Roots educed Iron				Visible on Aerial Imagery Stressed Plants
	B4 - Algal Ma						duction in Tilled Soils		_	D2 - Geomorph	
	B5 - Iron Dep			_	C7 - Thin					D5 - FAC-Neutr	
		on Visible on Aerial Im			D9 - Gaug						
	B8 - Sparsely	Vegetated Concave S	Surface		Other (Ex	plain in Re	marks)				
Field Observat											
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes ☑ No
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)			Woulding Hy	u.o.ogy		1,00 🗀 110
Saturation Pres	ent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Record	led Data (stre	eam gauge, monitori	ng well, a	erial phot	os, previo	us inspec	tions), if available:		Annual Crop	Slide Review	
Remarks:	FSA slides	indicated uplands a	at this loc	ation an	d to the s	outheast	·				
						outricast					
				auon an	a to the o	outricast	•				
SOILS			AC 1.110 100	ation an	a to the o	outricust	•				
SOILS Map Unit Name	):	Montgomery silty of	lay	anon an			Series Drainage Class	: very poorly			
Map Unit Name Taxonomy (Sub	group):	Montgomery silty o	lay s			S	Series Drainage Class				
Map Unit Name Taxonomy (Sub	group):	Montgomery silty o	lay s			S	Series Drainage Class		Grains; Location: PL=	Pore Lining, M=Matrix)	
Map Unit Name Taxonomy (Sub	group):	Montgomery silty o	lay s		ndicators.) (Type:	S	Series Drainage Class		Grains; Location: PL=	Pore Lining, M=Matrix)	Texture
Map Unit Name Taxonomy (Sub Profile Descrip	ogroup): otion (Describe to the	Montgomery silty o	lay S icator or confirm	the absence of it	ndicators.) (Type:	S	Series Drainage Class	S=Covered/Coated Sand G	Grains; Location: PL=	Pore Lining, M=Matrix)  Location	Texture (e.g. clay, sand, loam)
Map Unit Name Taxonomy (Sub Profile Descrip Top	ogroup): otion (Describe to the Bottom	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth of the control of	lay S icator or confirm	the absence of i	ndicators.) (Type:	S	Series Drainage Class n. D=Depletion, RM=Reduced Matrix, CS Rev	S=Covered/Coated Sand G	1	•	
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	ogroup): otion (Describe to the Bottom Depth	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind	lay S icator or confirm Color	the absence of it  Matrix (Moist)	ndicators.) (Type:	C=Concentratio	Geries Drainage Class n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	S=Covered/Coated Sand G	Туре	Location	(e.g. clay, sand, loam)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	ogroup): otion (Describe to the Bottom Depth 11	Montgomery silty of Vertic Endoaquolls the depth needed to document the indepth Horizon	lay s cicator or confirm Color 10YR	the absence of ii  Matrix (Moist)  3/1	ndicators.) (Type:	C=Concentratio	Geries Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)	S=Covered/Coated Sand G	Type 	Location 	(e.g. clay, sand, loam) silty clay loam
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Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11	ogroup):  tion (Describe to the Bottom Depth 11 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth Horizon	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1	% 100 70	C=Concentratio	Geries Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand of dox Features % 30	Type  C 	Location  M 	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11	pgroup): ption (Describe to the Bottom Depth 11 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	Color 10YR 10YR	the absence of it Matrix (Moist) 3/1 5/1	% 100 70	C=Concentratio	Geries Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand G dox Features % 30	Type C	Location M	(e.g. clay, sand, loam) silty clay loam sandy clay loam  
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11	ogroup):  otion (Describe to tr  Bottom Depth 11 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	lay S S iciator or confirm Color 10YR 10YR	the absence of it  Matrix (Moist)  3/1  5/1	% 100 70	C=Concentratio	Geries Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand G dox Features % 30	Type C	Location M	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11	ogroup):  tion (Describe to the Depth	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	lay S S iciator or confirm Color 10YR 10YR	Matrix (Moist) 3/1 5/1	% 100 70	C=Concentratio	Series Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand G dox Features % 30	Type C	Location M	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11	ogroup):  Ition (Describe to It  Bottom Depth 11 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind Horizon  1 2	Color 10YR 10YR	Matrix (Moist) 3/1 5/1	% 100 70 	10YR	Geries Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand G dox Features % 30	Type C	Location M	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11 NRCS Hydric :	ogroup):  Ition (Describe to It  Bottom Depth 11 24 Soil Field In	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	Color 10YR 10YR	Matrix (Moist) 3/1 5/1 cators an	% 100 70 er not pres	C=Concentratio	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand of dox Features % 30 Indicators	Type C s for Problem	Location M	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11 NRCS Hydric	ogroup):  stion (Describe to the Depth	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	Color 10YR 10YR	Matrix (Moist) 3/1 5/1 cators an	% 100 70 	C=Concentration  10YR  y Gleyed	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	s=covered/Coated Sand C dox Features % 30 Indicators	Type C s for Problem	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 111 NRCS Hydric	Bottom Depth 11 24 Soil Field In A1- Histosol A3 - Black Hi	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1     Cators an	% 100 70 e not pres \$4 - Sand \$5 - Stripp	C=Concentration  10YR y Gleyed   y Redox oved Matrix	Geries Drainage Class  Rec Color (Moist)  5/8  :: Matrix	S=Covered/Coated Sand G dox Features % 30 Indicators	Type	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 111 NRCS Hydric	Bottom Depth 11 24 Soil Field In A1- Histosci A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Montgomery silty of Vertic Endoaquolls of the depth needed to document the ind Horizon  1 2 dicators (check he bipedon stic n Sulfide	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1    cators arr	% 100 70	C=Concentratio	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8       Watrix  ineral	S=Covered/Coated Sand G dox Features % 30 Indicators	Type	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11 NRCS Hydric:	pgroup):  tion (Describe to the Depth	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind Horizon  1 2 dicators (check here) stic in Sulfide di Layers	Color 10YR 10YR	Matrix (Moist) 3/1 5/1 cators an	% 100 70	C=Concentration  10YR   10YR   y Gleyed by Redox oped Matrix by Muck Miny Gleyed by Gleyed by Gleyed by Redox oped Matrix by Muck Miny Gleyed	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand G dox Features % 30 Indicators	Type	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11 NRCS Hydric	ogroup):  In the property of t	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind Horizon  1 2 dicators (check he objection stic on Sulfide 1 Layers luck	Color 10YR 10YR	Matrix (Moist)  3/1  5/1    cators an	% 100 70	C=Concentration  10YR  y Gleyed I y Redox oed Matrix in y Muck M by Gleyed eted Matrix in y Gleyed eted Matrix in y Muck M by Gleyed eted Matrix in y M by Gleyed eted M by	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8        D:  Matrix  Matrix	S=Covered/Coated Sand G dox Features % 30 Indicators	Type	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 111 NRCS Hydric	Bottom Depth 11 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A11 - Deplete	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	Color 10YR 10YR	Matrix (Moist)  3/1  5/1    cators an	% 100 70	C=Concentration  10YR	Geries Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8       Watrix  ineral  Matrix  crface	S=Covered/Coated Sand G dox Features % 30 Indicators	Type	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 111 NRCS Hydric:	pgroup):  Ition (Describe to the foliation of the foliati	Montgomery silty of Vertic Endoaquolls of Layers Surface and Below Dark Surface and Surface shark Surface silts.	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1    cators arr	% 100 70	c=Concentratio	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8      Watrix  Ineral Matrix  Crace Surface Surface Surface	S=Covered/Coated Sand G dox Features % 30 Indicators	Type	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11 NRCS Hydric:	pgroup):  ption (Describe to the post of t	Montgomery silty of Vertic Endoaquolls of Layers Surface and Below Dark Surface and Surface shark Surface silts.	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1    cators arr	% 100 70	c=Concentratio	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8      Watrix  Ineral Matrix  Crace Surface Surface Surface	s=covered/Coated Sand of dox Features  % 30 Indicators	Type  C s for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam es
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11 NRCS Hydric	pgroup):  ption (Describe to the post of t	Montgomery silty of Vertic Endoaquolis edepth needed to document the ind Horizon  1 2 dicators (check here) bipedon stic in Sulfide it Layers luck ad Below Dark Surface luck Mineral icky Peat or Peat	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1    cators arr	96 100 70	c=Concentratio	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8      Watrix  Ineral Matrix  Crace Surface Surface Surface	s=covered/Coated Sand of dox Features  % 30 Indicators	Type  C s for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11 NRCS Hydric	Boroup):  Ition (Describe to the Depth	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind Horizon  1 2 dicators (check he bipedon stic on Sulfide d Layers luck ed Below Dark Surface luck Mineral locky Peat or Peat	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1     cators an	% 100 70 S4 - Sand S5 - Sand S5 - Sand F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	C=Concentration  10YR	Series Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8       Watrix  ineral Matrix  crface Surface Surface ions	S=Covered/Coated Sand G dox Features % 30 Indicators	Type  C s for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam es urface
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11 NRCS Hydric	Boroup):  Ition (Describe to the Depth	Montgomery silty of Vertic Endoaquolis edepth needed to document the ind Horizon  1 2 dicators (check here) bipedon stic in Sulfide it Layers luck ad Below Dark Surface luck Mineral icky Peat or Peat	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1     cators an	% 100 70 S4 - Sand S5 - Sand S5 - Sand F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	C=Concentration  10YR	Series Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8       Watrix  ineral Matrix  crface Surface Surface ions	S=Covered/Coated Sand G dox Features % 30 Indicators	Type  C s for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam es urface
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11 NRCS Hydric	Boroup):  Ition (Describe to the Depth	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind Horizon  1 2 dicators (check he bipedon stic on Sulfide d Layers luck ed Below Dark Surface luck Mineral locky Peat or Peat	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1     cators an	% 100 70 S4 - Sand S5 - Sand S5 - Sand F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	C=Concentration  10YR	Series Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8       Watrix  ineral Matrix  crface Surface Surface ions	S=Covered/Coated Sand G dox Features % 30 Indicators	Type  C s for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam es urface
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 11 NRCS Hydric	Boroup):  Ition (Describe to the Depth	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind Horizon  1 2 dicators (check he bipedon stic on Sulfide d Layers luck ed Below Dark Surface luck Mineral locky Peat or Peat	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  5/1     cators an	% 100 70 S4 - Sand S5 - Sand S5 - Sand F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	C=Concentration  10YR	Series Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8       Watrix  ineral Matrix  crface Surface Surface ions	S=Covered/Coated Sand G dox Features % 30 Indicators	Type  C s for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, loam) silty clay loam sandy clay loam es urface



Project/Site: Emerald Park Landfill - Western Expansion Wetland ID: Adj to W10 Sample Point W10-1u

Tees Statutum (Plot sizes - 30 frantalus)	VEGETATION	(Species identified in all uppercase are non-na	tive spec	ies.)		
1.	Tree Stratum (Pl					
Number of Dominant Species that are OBL, FACW, or FAC   2 (A)	_	<u>Species Name</u>				Dominance Test Worksheet
3.		<del></del>				
Total Number of Dominant Species Across All Stratu. 2 (B)  Percent of Dominant Species Tratal Are OBIL, FACW, or FAC. 100.0% (A/B)  Percent of Dominant Species Tratal Are OBIL, FACW, or FAC. 100.0% (A/B)  Percent of Dominant Species Tratal Are OBIL, FACW, or FAC. 100.0% (A/B)  Percent of Dominant Species Tratal Are OBIL, FACW, or FAC. 100.0% (A/B)    10,						Number of Dominant Species that are OBL, FACW, or FAC:2 (A)
Section   Sect						
Percent of Dominant Species That Are OBL, FACW, or FACE   100.0% (A/B)						Total Number of Dominant Species Across All Strata:2 (B)
Total Cover = 0						
S   -   -   -   -   -     -						Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)						
Total Cover   O						
Total Cover = 0   FACW sp.   16						
Sapling/Shrub Stratum (Plot size: 15 fi radius)	10.					''
Sapting/Strub Stratum (Plot size: 15 ft radius)		Total Cover =	0			· · · · · · · · · · · · · · · · · · ·
1.						''
2	Sapling/Shrub Str	atum (Plot size: 15 ft radius)				· · · · · · · · · · · · · · · · · · ·
Tree						UPL spp.
A						
Prevalence Index = B/A =   2.250	3.					Total(A)(B)
6,	4.					
Total Cover = 0	5.					Prevalence Index = B/A = <b>2.250</b>
Record   R	6.				-	
9,	7.				-	
9,	8.					Hydrophytic Vegetation Indicators:
Total Cover = 0	9.				-	
Total Cover = 0	10.					☑ Yes □ No Dominance Test is > 50%
Herb Stratum (Plot size: 5 ft radius)		Total Cover =	0			
Herb Stratum (Plot size: 5 ft radius)						
1.	Herb Stratum (Plo	ot size: 5 ft radius)				
2. Agrostis hyemalis 3			15	Υ	FACW	
3.						
Mody Vine Stratum (Plot size: 30 ft radius)		3 ,				present, unless disturbed or problematic.
S.						Definitions of Vegetation Strata:
Company   Com						Domination of Vogotation official
Total Cover = 0   Total Cover   Total Cove						Tree - Was displayed 2 is (7 Carry) as a second of the second
8						breast height (DBH), regardless of height.
9.						
10						Sanling/Shruh - Woody plants less than 3 in. DBH and greater than 3.28
11						ft, tall.
12						
13						Horb - All herbaceous (non-woody) plants, regardless of size
14						and woody plants less than 3.28 ft. tall.
15 Woody Vines - All woody vines greater than 3.28 ft. in height.  Woody Vine Stratum (Plot size: 30 ft radius)  1						
Total Cover = 20						Woody Vines All woody vines greater than 3.28 ft. in height
Woody Vine Stratum (Plot size: 30 ft radius)	15.					WOODY VINES - All WOODY VINES greater than 5.20 ft. in neight.
1		Total Cover =	20			
1	Woody Vine Strat	cum (Plot size: 30 ft radius)				
2		•				
3 Hydrophytic Vegetation Present ☑ Yes □ № 4						
4 5 Total Cover = 0						Hydrophytic Vegetation Present ☑Yes ☐ No
5 Total Cover = 0						Tryanophysio rogotation r rodont (2100 (2100
Total Cover = 0						
	<del>                                     </del>					
	Remarks:			ved leavi	na only w	eeds. Cover for soybeans not able to be interpreted due to recent plowing

#### Additional Remarks:

Hydrophytic vegetation and hydric soils were present, although both soils and vegetation were significantly disturbed. FSA crop slides interpreted to support uplands at this location and going out from W-10.



Project/Site:	Ellieralu Pa	ark Landfill - Wester	n Expans	sion			Stantec Project #:	193702557		Date:	10/23/14	
Applicant:		Disposal Services, I	NC							County:	Waukesha	
Investigator #1:				Invest	igator #2:			= 411		State:	Wisconsin	
Soil Unit:		ry silty clay loam			al Dalias		/I/WWI Classification	: E1Ha			W10	
Landform: Slope (%):	Depression 0-2	Latitude:	NI/A		cal Relief: .ongitude:		•	Datum:	NI/A	Sample Point:	Wet Meadow	
		litions on the site typ					n in Leonardss\		No	Section:	36	
		or Hydrology 🗆 sigi				in the Capital	Are normal circumst			Township:	5 N	
		or Hydrology 🗆 nat						□No		Range:	20 E	
SUMMARY OF		, 0,								Ü		
Hydrophytic Ve	getation Pres	sent?		☑ Yes	□ No			Hydric Soils	Present?		Yes □	No
Wetland Hydrol					□ No			Is This Samp	ng Point \	Within A Wet <b>l</b> a	and? 🛛 Yes 🔳	No
Remarks:  HYDROLOGY  Wetland Hydr		moisture conditions						_	_			
Primary	A1 - Surface A2 - High Wa A3 - Saturatic B1 - Water M B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundatic B8 - Sparsely	Water ter Table on larks tt Deposits oosits tt or Crust	agery		B9 - Wate B13 - Aqu B14 - True C1 - Hydr C3 - Oxidi C4 - Presc C6 - Rece	er-Stained latic Fauna e Aquatic F logen Sulfii ized Rhizo ence of Re ent Iron Re Muck Surf ge or Well	Plants de Odor spheres on Living Roots duced Iron duction in Tilled Soils ace Data			E6 - Surface So E10 - Drainage C2 - Dry-Seaso C8 - Crayfish Bu	Patterns n Water Table urrows Visible on Aerial Imaç Stressed Plants ic Position	gery
Field Observat Surface Water Water Table Pr Saturation Pres	Present? resent? sent?	☐ Yes ☑ No ☑ Yes ☐ No ☑ Yes ☐ No eam gauge, monitorir	Depth: Depth: Depth:	6 0 erial phot	(in.) (in.) (in.)	us inspec	tions). if available:	Wetland Hy	drology Pr	esent? ☑	Yes □ No	
Remarks:												
SOILS		Mantagagagagita	lou lo oro				orios Drainores Class					
SOILS Map Unit Name		Montgomery silty cl				S	eries Drainage Class	: very poorly				
SOILS Map Unit Name Taxonomy (Sub	ogroup):	Vertic Endoaquolls	;									
SOILS Map Unit Name Taxonomy (Sub	ogroup): otion (Describe to the	Vertic Endoaquolls	;				n, D=Depletion, RM=Reduced Matrix, CS	S=Covered/Coated Sand G	Prains; Location: PL=	Pore Lining, M=Matrix)	Teyture	
SOILS Map Unit Name Taxonomy (Sut Profile Descrip	ogroup): otion (Describe to the Bottom	Vertic Endoaquolls ne depth needed to document the indic	cator or confirm th	Matrix			n, D=Depletion, RM=Reduced Matrix, CS	S=Covered/Coated Sand G	1		Texture	loam)
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth	ogroup): otion (Describe to the Bottom Depth	Vertic Endoaquolls ne depth needed to document the indic	cator or confirm the	Matrix (Moist)	%	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	S=Covered/Coated Sand G	Туре	Location	(e.g. clay, sand, I	loam)
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0	ogroup): otion (Describe to the Bottom Depth 10	Vertic Endoaquolls  e depth needed to document the indic  Horizon  1	Color (	Matrix			n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	S=Covered/Coated Sand G dox Features %	1	Location 	(e.g. clay, sand, l silt loam	
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth	ogroup): otion (Describe to the Bottom Depth	Vertic Endoaquolls ne depth needed to document the indic	cator or confirm the	Matrix (Moist) 2/1	% 100	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	S=Covered/Coated Sand G	Type 	Location	(e.g. clay, sand, I	
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10	Degroup): Describe to the Bottom Depth 10 20	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2	Color (	Matrix (Moist) 2/1 4/1	% 100 95	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)  4/6	S=Covered/Coated Sand G dox Features % 5	Type  C	Location  M	(e.g. clay, sand, l silt loam silty clay loar	
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10	ogroup):  otion (Describe to the Bottom Depth 10 20	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2	Color ( 10YR 10YR	Matrix (Moist) 2/1 4/1 	% 100 95 	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	s=Covered/Coated Sand G dox Features % 5	Type  C 	Location  M	(e.g. clay, sand, I silt loam silty clay loar	
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10	Degroup):  otion (Describe to the Bottom Depth 10 20	Vertic Endoaquolls te depth needed to document the indice Horizon 1 2	Color ( 10YR 10YR	Matrix (Moist) 2/1 4/1 	% 100 95 	C=Concentratio	n. D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	S=Covered/Coated Sand G dox Features % 5	Type C	Location M	(e.g. clay, sand, I silt loam silty clay loar 	
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10	ogroup):  otion (Describe to the Depth	Vertic Endoaquolls te depth needed to document the indice Horizon 1 2	Color ( 10YR 10YR	Matrix (Moist) 2/1 4/1 	% 100 95  	C=Concentratio	n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	s=Covered/Coated Sand G dox Features % 5	Type C	Location M	(e.g. clay, sand, I silt loam silty clay loar  	
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip  Top Depth 0 10	ogroup):  otion (Describe to the Bottom Depth 10 20	Vertic Endoaquolls ne depth needed to document the indice Horizon 1 2	Color ( 10YR 10YR	Matrix (Moist) 2/1 4/1    	% 100 95    		n. D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	s=Covered/Coated Sand G dox Features % 5	Type C	Location  M	(e.g. clay, sand, I silt loam silty clay loar   	
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10 NRCS Hydric	Degroup): Detion (Describe to the Depth	Vertic Endoaquolls te depth needed to document the indice  Horizon  1 2 dicators (check here to pipedon stic n Sulfide t Layers luck and Below Dark Surface bark Surface	Color ( 10YR 10YR	Matrix (Moist) 2/1 4/1	% 100 95 e not pres \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo	10YR	n. D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	S=Covered/Coated Sand of dox Features %6 5 Indicators	Type  C 5 for Problen A16 - Coast S7 - Dark S8 F12 - Iron-N TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, I silt loam silty clay loar	m
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10 NRCS Hydric	Degroup): Detion (Describe to the Depth	Vertic Endoaquolls te depth needed to document the indice Horizon  1 2 dicators (check here to pipedon stic n Sulfide d Layers luck ded Below Dark Surface bark Surface luck Mineral luck Peat or Peat	Color ( 10YR 10YR re if indic	Matrix (Moist) 2/1 4/1	% 100 95 e not pres \$4 - Sand \$5 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR	n. D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	S=Covered/Coated Sand of dox Features %6 5 Indicators	Type  C 5 for Problen A16 - Coast S7 - Dark St F12 - Iron-N TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, I silt loam silty clay loar	m
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10 NRCS Hydric	Degroup): Detion (Describe to the Depth	Vertic Endoaquolls te depth needed to document the indice Horizon  1 2 dicators (check here to pipedon stic n Sulfide d Layers luck ded Below Dark Surface bark Surface luck Mineral luck Peat or Peat	Color ( 10YR 10YR re if indic	Matrix (Moist) 2/1 4/1	% 100 95 e not pres \$4 - Sand \$5 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR	n. D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	S=Covered/Coated Sand of dox Features % 5 Indicators  ' Indicators of hydrophy	Type  C 5 for Problen A16 - Coast S7 - Dark St F12 - Iron-N TF12 - Very Other (Expla	Location  M	(e.g. clay, sand, I silt loam silty clay loar	m



Wetland ID:

W10

Project/Site: Emerald Park Landfill - Western Expansion Sample Point W10-1w **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name Populus tremuloides 15 FAC 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. 7. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: 10. x 1 = OBL spp. FACW spp. Total Cover = 15 100 x 2 = 200 x 3 = FAC spp. 15 45 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. 0 0 1. UPL spp. 0 x 5= 2. 3. Total 115 (A) 245 4. 5. Prevalence Index = B/A = 2.130 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. ☐ Yes Rapid Test for Hydrophytic Vegetation ☑ No 10. ----\_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = 0 □ No ✓ Yes Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* PHALARIS ARUNDINACEA FACW 1. 100 \* Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** 5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 1. 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = 0 Point is in disturbed wet meadow adjacent to a patch of woods. Remarks: Additional Remarks:



Project/Site:	Emerald Pa	ark Landfill - Weste	rn Expan	sion			Stantec Project #:	193702557	•	Date:	10/23/14
Applicant:		Disposal Services,	INC							County:	Waukesha
Investigator #1:				Investi	igator #2:					State:	Wisconsin
Soil Unit:	•	y silty clay loam		_			VI/WWI Classification	: None		Wetland ID:	Adj to W11
Landform:	Hill Slope				al Relief:					Sample Point:	
Slope (%):	0-2	Latitude			ongitude:			Datum:			Agricultural Field
		litions on the sile ty				(Гло, ехры	mini remarks)	☑ Yes □		Section:	36
		or Hydrology 🗆 sig					Are normal circumst		1.9	Township:	5 N
		or Hydrology 🛭 па	turally pr	oblemati	C?		☐ Yes	⊠No		Range:	20 E
SUMMARY OF				17				FI 11 0 7			
Hydrophytic Ve					□ No			Hydric Soils		A (14) 1	✓ Yes □ No
Wetland Hydrol	ogy Present	?	£ transacial		☑ No		Planta limental to the a			Within A Wetla	
Remarks:					n WEIS	analysis	Point located in an a	igricultural nelo	with poter	itial hydrologic	cal manipulations.
	Normal Circ	cumstances assume	ed nor bu	esent							
HYDROLOGY											
Wetland Hydro	ology Indica	tors (Check here it	indicato	rs are no	t present	□):					
<u>Primary</u>	:								Secondary:		
	A1 - Surface				B9 - Wate					E6 - Surface So	
	A2 - High Wa A3 - Saturation				B13 - Aqu B14 - True					E10 - Drainage C2 - Dry-Seaso	
	B1 - Water M				C1 - Hydr					C8 - Crayfish B	
	B2 - Sedimer						spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep						educed Iron		_		Stressed Plants
	B4 - Algal Ma			_			duction in Tilled Soils			□2 - Geomorph	
	B5 - Iron Dep	osits on Visible on Aerial Im	agery		C7 - Thin D9 - Gaug				✓	□5 - FAC-Neutr	rai i est
		Vegetated Concave S			Other (Ex						
,		ŭ		-			,				
Field Observat	ions:										
Surface Water		☐ Yes ☑ No	Depth:		(in.)						
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	]Yes ☑ No
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)						
					, ,						
		eam gauge, monitori			os, previo	us inspec	tions), if available:		Annual Crop	Slide Review	
Remarks:	No primary	hydrology indicator	rs observ	ed. FSA	slides ind	dicate up	lands at this location a	and going sou	ith and east	:.	
	No primary	hydrology indicator	rs observ	ed. FSA	slides ind	dicate up	lands at this location a	and going sou	th and east		
SOILS		, 0,			slides ind				th and east		
SOILS Map Unit Name	): ):	Montgomery silty of	lay loam		slides ind		lands at this location a		th and east	:.	
SOILS Map Unit Name Taxonomy (Sub	e: ogroup):	Montgomery silty o	lay loam			5	Series Drainage Class	: very poorly			
SOILS Map Unit Name Taxonomy (Sub Profile Descrip	e: ogroup):	Montgomery silty o	lay loam	the absence of it		5		: very poorly			
SOILS Map Unit Name Taxonomy (Sub	e: ogroup):	Montgomery silty o	lay loam S icator or confirm	the absence of in		5	Series Drainage Class	: very poorly			Texture
SOILS Map Unit Name Taxonomy (Sub Profile Descrip	: ogroup): <b>tion</b> (Describe to th	Montgomery silty o	lay loam S icator or confirm	the absence of it	ndicators.) (Type:	5	Series Drainage Class	:: very poorly S=Covered/Coated Sand G			(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top	e: ogroup): otion (Describe to the	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth of the control of	lay loam S icator or confirm	the absence of in	ndicators.) (Type:	5	Series Drainage Class n, D=Depletion, RM=Reduced Matrix, CS Ret	: very poorly  S=Covered/Coated Sand G  dox Features	Grains; Location: PL=	Pore Lining, M=Matrix)	(e.g. clay, sand, loam) silty clay loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	e: ogroup): <b>tion</b> (Describe to the Bottom Depth	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind	lay loam s icator or confirm Color	the absence of in Matrix (Moist)	ndicators.) (Type:	C=Concentratio	Geries Drainage Class n, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	: very poorly  S=Covered/Coated Sand G  dox Features  %	Grains; Location: PL=	Pore Lining, M=Matrix)	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: pgroup): tion (Describe to the Bottom Depth 8	Montgomery silty of Vertic Endoaquolls the depth needed to document the indepth Horizon	lay loam s icator or confirm Color 10YR	the absence of it  Matrix (Moist)  3/1	ndicators.) (Type:	C=Concentratio	Geries Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)	:: very poorly  S=Covered/Coated Sand G  dox Features  %	Grains; Location: PL=	Pore Lining, M=Matrix)  Location	(e.g. clay, sand, loam) silty clay loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8	egroup):  ogroup):  btion (Describe to the Bottom Depth 8 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth Horizon	lay loam s icator or confirm  Color 10YR 10YR	the absence of in Matrix (Moist)  3/1 6/1	% 100 75	C=Concentratio	Geries Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand G dox Features % 25	Grains; Location: PL=	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8	pgroup):  tion (Describe to the Bottom Depth 8 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth Horizon	lay loam s color 10YR 10YR	the absence of ir  Matrix (Moist)  3/1  6/1	% 100 75	C=Concentration	Geries Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand G dox Features % 25	Grains; Location: PL=  Type   C	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8	pgroup):  tion (Describe to the Depth 8 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	Sicator or confirm  Color 10YR 10YR	the absence of ir Matrix (Moist)  3/1  6/1	% 100 75	C=Concentratio	Geries Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand G dox Features % 25	Srains; Location: PL=	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam silty clay loam
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SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8	Bottom Depth  8 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	lay loam s s icator or confirm Color 10YR 10YR	the absence of in Matrix (Moist)  3/1  6/1	% 100 75	C=Concentration  10YR	Series Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand G dox Features % 25	Grains; Location: PL=	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8	Bottom Depth  8 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind Horizon  1 2	Color 10YR 10YR	Matrix (Moist) 3/1 6/1	% 100 75	10YR	Geries Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand G dox Features % 25	Graine; Location: PL=	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric :	Bottom Depth  8 24 Soil Field In	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	Color 10YR 10YR	Matrix (Moist) 3/1 6/1 cators are	% 100 75 en not pres	C=Concentratio	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	: very poorly S=Covered/Coated Sand G dox Features	Type  Type  C	Pore Lining, M=Matrix)  Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric	Bottom Depth 8 24 Soil Field In A1- Histosol	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	Color 10YR 10YR	Matrix (Moist) 3/1 6/1 cators arr	% 100 75	C=Concentratio	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	S=Covered/Coated Sand of dox Features	Type  Type  C	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric	Bottom Depth  8 24 Soil Field In	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	Color 10YR 10YR	Matrix (Moist) 3/1 6/1 cators arr	% 100 75 e not pres	C=Concentration  10YR sent □ y Gleyed y Redox	Series Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	:: very poorly  s=Covered/Coated Sand G  dox Features  %  25  Indicators	Type  C s for Problen A16 - Coast S7 - Dark St F12 - Iron-M	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic Eg. A3 - Black Hi A4 - Hydroge	Montgomery silty of Vertic Endoaquolls of Ve	Color 10YR 10YR	Matrix (Moist) 3/1 6/1 cators arr	% 100 75	c=Concentratio	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8       Watrix  ineral	:: very poorly S=Covered/Coated Sand G dox Features	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark St  F12 - Iron-M  TF12 - Very	Location  Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric:	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic Er A3 - Black Hi A4 - Hydroge A5 - Stratified	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind Horizon  1 2 dicators (check here) stic in Sulfide di Layers	Color 10YR 10YR	Matrix (Moist) 3/1 6/1	% 100 75	C=Concentration  10YR  10YR  y Gleyed y Redox y Redox y Redox y Muck M ny Gleyed y Gleyed	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8	:: very poorly S=Covered/Coated Sand G dox Features	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark St  F12 - Iron-M  TF12 - Very	Pore Lining, M=Matrix)  Location   M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Stratifiec A4 - Stratifiec A10 - 2 cm M	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind Horizon  1 2 dicators (check he objection stic on Sulfide 1 Layers luck	Color 10YR 10YR	Matrix (Moist)  3/1  6/1    cators are	% 100 75 S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F3 - Deple F3 -	C=Concentration  10YR  y Gleyed y Redox oed Matrix y Muck M y Gleyed eted Matrix	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8        D:  Matrix  Matrix	:: very poorly S=Covered/Coated Sand G dox Features	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark St  F12 - Iron-M  TF12 - Very	Location  Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete	Montgomery silty of Vertic Endoaquolls to depth needed to document the indepth needed to docu	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1 6/1 cators are	% 100 75	C=Concentration  10YR  y Gleyed y Redox oed Matrix ny Muck M ny Muck M oet d Matrix x Dark Su	Geries Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8       Watrix  ineral  Matrix  crface	:: very poorly S=Covered/Coated Sand G dox Features	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark St  F12 - Iron-M  TF12 - Very	Location  Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic Eq. A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplete A12 - Thick E	Montgomery silty of Vertic Endoaquolls Vertic Endoaquolls e depth needed to document the ind Horizon  1 2 dicators (check he bipedon stic n Sulfide 1 Layers luck ed Below Dark Surface bark Surface	Color 10YR 10YR	the absence of in Matrix (Moist) 3/1 6/1 cators arr	% 100 75	c=Concentration  10YR  10YR   10YR   10YR   10YR	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8      Watrix  Ineral Matrix  Crace Surface Surface Surface	:: very poorly S=Covered/Coated Sand G dox Features	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark St  F12 - Iron-M  TF12 - Very	Location  Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric:	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M A11 - Deplett A12 - Thick E S1 - Sandy N	Montgomery silty of Vertic Endoaquolls Vertic Endoaquolls e depth needed to document the ind Horizon  1 2 dicators (check he bipedon stic n Sulfide 1 Layers luck ed Below Dark Surface bark Surface	Color 10YR 10YR	the absence of in Matrix (Moist) 3/1 6/1 cators arr	% 100 75	c=Concentration  10YR  10YR   10YR   10YR   10YR	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8      Watrix  Ineral Matrix  Crace Surface Surface Surface	S=Covered/Coated Sand of dox Features	Type  Type  C     5 for Problen  A16 - Coast S7 - Dark St F12 - Iron-M  TF12 - Very Other (Expla	Pore Lining, M=Matrix)  Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic Eq. A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mu	Montgomery silty of Vertic Endoaquolls of Leavers (check her bipedon stic in Sulfide I Layers luck and Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR 10YR	the absence of in Matrix (Moist)  3/1 6/1 cators are	% 100 75	c=Concentration  10YR  10YR   10YR   10YR   10YR	Series Drainage Class  n, D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8      Watrix  Ineral Matrix  Crace Surface Surface Surface	:: very poorly S=Covered/Coated Sand G dox Features	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark \$G  F12 - Iron-M  TF12 - Very  Other (Expla	Location  Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam es urface
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric:	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind Horizon  1 2 dicators (check here) bipedon stic on Sulfide d Layers luck ed Below Dark Surface luck Mineral locky Peat or Peat	Color 10YR 10YR re if indices	the absence of in Matrix (Moist)  3/1 6/1 cators are	% 100 75	C=Concentration  10YR  y Gleyed y Redox poed Matrix y Muck M yy Gleyed eted Matrix x Dark Su eted Dark x Depress	Series Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8       Watrix  ineral Matrix  crface Surface Surface ions	S=Covered/Coated Sand of dox Features	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark \$G  F12 - Iron-M  TF12 - Very  Other (Expla	Location  Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam es
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Montgomery silty of Vertic Endoaquolls of Leavers (check her bipedon stic in Sulfide I Layers luck and Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR 10YR re if indices	the absence of in Matrix (Moist)  3/1 6/1 cators are	% 100 75	C=Concentration  10YR  y Gleyed y Redox poed Matrix y Muck M yy Gleyed eted Matrix x Dark Su eted Dark x Depress	Series Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8       Watrix  ineral Matrix  crface Surface Surface ions	:: very poorly S=Covered/Coated Sand G dox Features	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark \$G  F12 - Iron-M  TF12 - Very  Other (Expla	Location  Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam es urface
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind Horizon  1 2 dicators (check here) bipedon stic on Sulfide d Layers luck ed Below Dark Surface luck Mineral locky Peat or Peat	Color 10YR 10YR re if indices	the absence of in Matrix (Moist)  3/1 6/1 cators are	% 100 75	C=Concentration  10YR  y Gleyed y Redox poed Matrix y Muck M yy Gleyed eted Matrix x Dark Su eted Dark x Depress	Series Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8       Watrix  ineral Matrix  crface Surface Surface ions	:: very poorly S=Covered/Coated Sand G dox Features	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark \$G  F12 - Iron-M  TF12 - Very  Other (Expla	Location  Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam es urface
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 8 NRCS Hydric	Bottom Depth  8 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Montgomery silty of Vertic Endoaquolls to depth needed to document the ind Horizon  1 2 dicators (check here) bipedon stic on Sulfide d Layers luck ed Below Dark Surface luck Mineral locky Peat or Peat	Color 10YR 10YR re if indices	the absence of in Matrix (Moist)  3/1 6/1 cators are	% 100 75	C=Concentration  10YR  y Gleyed y Redox poed Matrix y Muck M yy Gleyed eted Matrix x Dark Su eted Dark x Depress	Series Drainage Class  n. D=Depletion, RM=Reduced Matrix, CS  Red  Color (Moist)   5/8       Watrix  ineral Matrix  crface Surface Surface ions	:: very poorly S=Covered/Coated Sand G dox Features	Type  Type  C  C    s for Problen  A16 - Coast  \$7 - Dark \$G  F12 - Iron-M  TF12 - Very  Other (Expla	Location  Location  M	(e.g. clay, sand, loam) silty clay loam silty clay loam es urface



Project/Site: Emerald Park Landfill - Western Expansion Wetland ID: Adj to W11 Sample Point W11-1u

VEGETATION	(Species identified in all uppercase are non-na	tive spec	ies.)		
Tree Stratum (Plo	t size: 30 ft radius)				
	Species Name		<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:1(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:(A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	 		-		OBL spp. 0 x 1 = 0
	Total Cover =	0			FACW spp. 15 x 2 = 30
					FAC spp. 3 x 3 = 9
	atum (Plot size: 15 ft radius)				FACU spp 0 x 4 = 0
1.					UPL spp. 0 x 5 = 0
2.					
3.					Total 18 (A) 39 (B)
4.					D. I. I. B.
5.					Prevalence Index = B/A =
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					✓ Yes ☐ No Rapid Test for Hydrophytic Vegetation
10.					✓ Yes ☐ No Dominance Test is > 50%
	Total Cover =	0			
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo		4.5		EA (2) A (	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	ECHINOCHLOA CRUS-GALLI	15	Y	FACW	* Indicators of hydric soil and wetland hydrology must be
2.	Agrostis hyemalis	3	N	FAC	present, unless disturbed or problematic.
3.					Definitions of Venetation Otrates
4.					Definitions of Vegetation Strata:
5.					Total
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					breast neight (DDH), regardless of height.
8.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28
9.					ft, tall.
10.					
11.					All books are a constant and a second a second and a second a second and a second a
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.					,
14.					All conductors and all the O.O.O.O. in height
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	18			
Woody Vine Stratu	um (Plot size: 30 ft radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present ☑Yes ☐ No
4.					
5.	-				
<u> </u>	Total Cover =	0			
Remarks:	Vegetation was recently harvested and		wed lea	vina on <b>i</b> v	annual weeds.
	. To take in the cooling harvoored and	Jone pic	, 104	9 01119	

#### Additional Remarks:

Hydrophytic vegetation and hydric soils present, although both soils and vegetation were significantly disturbed.



Project/Site:	Emerald Pa	ark Landfill - Wester	n Expan	sion			Stantec Project #:	193702557		Date:	10/23/14		
Applicant:		Disposal Services, II	NC			_				County:	Waukesha		
Investigator #1				Invest	igator #2:					State:	Wisconsin		
Soil Unit:		ry silty clay loam			- I D - E - 6		VI/WWI Classification:	T3/E2Ka			W11		
Landform:	Depression		NI/A		cal Relief:		е	Detum	NI/A	Sample Point:			
Slope (%):	0-2	Latitude: ditions on the site type			ongitude:		Assau vanassas S.A	Datum:  ☑ Yes □		Community ID: Section:	36		
		or Hydrology 🗆 sign				по, ехра	Are normal circumst			Township:	5 N		
		or Hydrology I nati						⊟No	100	Range:	20 E		
SUMMARY OF		of Flydrology 12 man	draity pro	Dicilian	o ;		E 100	Livo		Range.	20 L		
Hydrophytic Ve		sent?		7 Vec	□ No			Hydric Soils	Present?		☑ Yes □ No		
Wetland Hydro					□ No					Within A Wetla			
Remarks:		t moisture conditions	tiomal						aning i onit	vvidini / ( vvede	and: <u>= 103 = 110</u>		
HYDROLOGY	,		, lie lille		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	214(74)4			_				
	alamı badias	tore (Charle Harry E	in life with	D War to		=0							
wetiand Hydr Primary		ators (Check here if	indicato	rs are no	t present	⊟):			Secondary:				
	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			E6 - Surface So	il Cracks		
<ul><li>☐ A2 - High Water Table</li><li>☐ A3 - Saturation</li></ul>					B13 - Aqu	atic Fauna	a Plants			<ul><li>□ E10 - Drainage Patterns</li><li>□ C2 - Dry-Season Water Table</li></ul>			
					B14 - True								
	B1 - Water M B2 - Sedimer				C1 - Hydro		ae Oaor Ospheres on Living Roots			☐ C8 - Crayfish Burrows ☐ C9 - Saturation Visible on Aerial Imagery			
	B3 - Drift De			H			educed Iron			D1 - Stunted or			
	☐ B4 - Algal Mat or Crust						eduction in Tilled Soils			□2 - Geomorphi			
	B5 - Iron Dep				C7 - Thin				V	□5 - FAC-Neutr	al Test		
		on Visible on Aerial Ima v Vegetated Concave Si			D9 - Gaug Other (Ex								
	Do - Sparser	, vegetated Concave Si	uriace		Other (LX	piaiii iii ixe	anarks)						
Field Observa	tions:												
Surface Water		☐ Yes ☑ No	Depth:		(in.)								
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent?	Yes 🗆 No		
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)								
		ALC: N			` '		stions) if available.						
		eam gauge, monitorin			.os, previo	us irispec	Silons), ii avaliable.						
Remarks:	Riparian to	waterway outside pr	roject an	ea limits									
SOILS													
Map Unit Name		Montgomery silty cl					Series Drainage Class:	very poorly					
Taxonomy (Sul	ogroup):	Vertic Endoaquolls											
Tar		ne depth needed to document the indic	ator or confirm t			C=Concentratio	on, D=Depletion, RM=Reduced Matrix, CS		rains; Location: PL=	Pore Lining, M=Matrix)	Texture		
Top	Bottom	l la vima va	Calar	Matrix				dox Features	Tuna	Laastian	(e.g. clay, sand, loam)		
Depth	Depth	Horizon		(Moist)	%		Color (Moist)	%	Туре	Location			
0	10	1	10YR	2/1	100	 40VD					silty clay loam		
10	24	2	10YR	4/2	95	10YR	5/8	5	С	M	clay		
					1				1				
	A1- Histosol	ndicators (check her	re it inaid		e not pres S4 - Sand				A16 Coast	natic Soils : Prairie Redox			
	A2 - Histic E	oinedon			S5 - Sand		IVIALITX		S7 - Dark S				
	A3 - Black Hi						(			langanese Mass	es		
		en Sulfide			F1 - Loam					Shallow Dark Su	urface		
	A4 - Hydroge				F2 - Loam				Other (Expla	ain in Remarks)			
	A5 - Stratified	d Layers		_									
	A5 - Stratified A10 - 2 cm M	d Layers luck			F3 - Deple								
	A5 - Stratified A10 - 2 cm M A11 - Deplete	d Layers luck ed Below Dark Surface			F6 - Redo	x Dark Su	rface						
	A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D	d Layers fluck ed Below Dark Surface Dark Surface			F6 - Redo F7 - Deple	ox Dark Su eted Dark	irface Surface						
	A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M	d Layers fluck ed Below Dark Surface Dark Surface			F6 - Redo	ox Dark Su eted Dark	irface Surface	<sup>1</sup> Indicators of hydrophy	rtic vegetation and v	we <b>tl</b> and hydro <b>l</b> ogy must be	e present, unless disturbed or problematic.		
Restrictive Layer	A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mu	d Layers Muck ed Below Dark Surface Jark Surface Muck Mineral ucky Peat or Peat			F6 - Redo F7 - Deple F8 - Redo	ox Dark Su eted Dark	irface Surface						
	A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M	d Layers Muck ed Below Dark Surface Jark Surface Muck Mineral ucky Peat or Peat			F6 - Redo F7 - Deple F8 - Redo	ox Dark Su eted Dark	irface Surface	¹ Indicators of hydrophy Hydric Soil			e present, unless disturbed or problematic.  Yes		
Restrictive Layer	A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mu	d Layers Muck ed Below Dark Surface Jark Surface Muck Mineral ucky Peat or Peat			F6 - Redo F7 - Deple F8 - Redo	ox Dark Su eted Dark	irface Surface						
Restrictive Layer (If Observed)	A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mu	d Layers Muck ed Below Dark Surface Jark Surface Muck Mineral ucky Peat or Peat			F6 - Redo F7 - Deple F8 - Redo	ox Dark Su eted Dark	irface Surface						
Restrictive Layer (If Observed)	A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mu	d Layers Muck ed Below Dark Surface Jark Surface Muck Mineral ucky Peat or Peat			F6 - Redo F7 - Deple F8 - Redo	ox Dark Su eted Dark	irface Surface						



Project/Site: Emerald Park Landfill - Western Expansion Wetland ID: W11 Sample Point W11-1w **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) % Cover Dominant Ind.Status Dominance Test Worksheet Species Name 2. Number of Dominant Species that are OBL, FACW, or FAC: 5 (A) 3. 4. Total Number of Dominant Species Across All Strata: 5 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. 7. **Prevalence Index Worksheet** 8. 9. Total % Cover of: Multiply by: x 1 = 10. OBL spp. Total Cover = 0 FACW spp. 127 x 2 = 254 x 3 = FAC spp.\_ 20 60 Sapling/Shrub Stratum (Plot size: 15 ft radius)

1. RHAMNUS CATHARTICA x 4 = FACU spp. 0 0 15 FAC UPL spp. 0 x 5= 2. Cornus alba 10 **FACW** 3. Cornus obliqua 10 Υ **FACW** Total 147 (A) 314 FAC 4. Cornus racemosa 5 Ν 5. Prevalence Index = B/A = 2.136 ----6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. ☐ Yes Rapid Test for Hydrophytic Vegetation ☑ No 10. --\_\_ \_\_ ☑ Yes ☐ No Dominance Test is > 50% Total Cover = □ No ✓ Yes Prevalence Index is ≤ 3.0 \* ☑ No ☐ Yes Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft radius) ☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) \* PHALARIS ARUNDINACEA FACW 1. 100 \* Indicators of hydric soil and wetland hydrology must be 2. Cornus alba 2 Ν **FACW** present, unless disturbed or problematic. 3. --**Definitions of Vegetation Strata:** 4. --5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 102 Woody Vine Stratum (Plot size: 30 ft radius) 5 **FACW** 1. Vitis riparia 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = Remarks: Additional Remarks:



Project/Site:		ark Landfill - Wester		sion			Stantec Project #:	193702557		Date:	10/23/14
Applicant:		Disposal Services, I	NC	1	:		de etc			County:	Waukesha
Investigator #1: Soil Unit:		Investigator #2: Jaron Tylock  silty clay loam  NWI/WWI Classification: T3/E2Ka							State:	Wisconsin	
Landform:	Hill Slope								•		
Slope (%):	4-6	Latitude:	N/A		ongitude:			Datum:	N/A		Upland Thicket
		litions on the site type					in in remarks)		No	Section:	36
						Are normal circumstances present? Township: 5 N					
		or Hydrology 🛚 nat	turally pro	oblemati	c?			□No		Range:	20 E
SUMMARY OF											
Hydrophytic Ve				Yes				Hydric Soils			
Wetland Hydrology Present?									Within A Wetla		
Remarks: Antecedent moisture conditions normal based on WETS analysis. Sample point is located in an upland thicket, which appeared to be well drained											
	throughout										
	HYDROLOGY										
		itors (Check here if	indicator	rs are no	t present	☑):					
Primary	: A1 - Surface	\Mater		П	B9 - Wate	r_Stained	Leaves		Secondary:	E6 - Surface So	ail Cracks
	A2 - High Wa				B13 - Aqu					E10 - Drainage	
	A3 - Saturation	on			B14 - True	e Aquatic	Plants			C2 - Dry-Seaso	n Water Table
	B1 - Water M B2 - Sedimer				C1 - Hydro					C8 - Crayfish Bu	
	B2 - Sedimer B3 - Drift Der						spheres on Living Roots educed Iron			©1 - Saturation	Visible on Aerial Imagery Stressed Plants
	B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorphi	
	B5 - Iron Dep									□5 - FAC-Neutr	ral Test
		on Visible on Aerial Ima VVegetated Concave S			D9 - Gaug Other (Ex						
	Do - Sparser	vegetated Concave 3	dirace		Other (LX	Jiaiii iii ixe	anarks)				
Field Observat	tions:										
Surface Water		☐ Yes ☑ No	Depth:		(in.)						
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes ☑ No
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)						
		ALCOHOLOGICA		orial phot	. ,	ue ineno	tions) if available:				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
		av indicators observ	rod.								
Remarks:	No hydrolo	gy indicators observ	/ed.								
	No hydrolo	gy indicators observ	red.								
SOILS						S	Series Drainage Class:	very poorly			
SOILS Map Unit Name	e:	Montgomery silty cl	lay loam			Ş	Geries Drainage Class:	: very poorly			
SOILS Map Unit Name Taxonomy (Sub	e: ogroup):	Montgomery silty cl	lay loam	he absence of i	ndicators.) (Type:				Grains; Location: PL=	Pore Lining, M=Matrix)	
SOILS Map Unit Name Taxonomy (Sub	e: ogroup):	Montgomery silty cl	lay loam	he absence of i			on, D=Depletion, RM=Reduced Matrix, CS		Grains; Location: PL=	Pore Lining, M=Matrix)	Texture
SOILS Map Unit Name Taxonomy (Sub Profile Descrip	e: ogroup): otion (Describe to the	Montgomery silty cl	lay loam				on, D=Depletion, RM=Reduced Matrix, CS	=Covered/Coated Sand G	Grains; Location: PL=	Pore Lining, M=Matrix)  Location	Texture (e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top	e: ogroup): otion (Describe to the	Montgomery silty of Vertic Endoaquolls to depth needed to document the indicate the silling of t	lay loam	Matrix			on, D=Depletion, RM=Reduced Matrix, CS	=Covered/Coated Sand G	1		
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	e: ogroup): otion (Describe to the Bottom Depth	Montgomery silty of Vertic Endoaquolls to depth needed to document the indicential Horizon	lay loam cator or confirm t	Matrix (Moist)	%	C=Concentratio	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	S=Covered/Coated Sand G	Туре	Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: ogroup): otion (Describe to the Bottom Depth 10	Montgomery silty of Vertic Endoaquolls to depth needed to document the indices Horizon	lay loam cator or confirm t Color 10YR	Matrix (Moist) 2/1	% 100	C=Concentration	on, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	S=Covered/Coated Sand G dox Features %	Type 	Location 	(e.g. clay, sand, loam) silt loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10	e: pgroup): ption (Describe to the Bottom Depth 10 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the indices Horizon	Color 10YR 10YR	Matrix (Moist) 2/1 4/1	% 100 95	C=Concentration	nn, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 5/8	s=Covered/Coated Sand G dox Features % 5	Type  C	Location  M	(e.g. clay, sand, loam) silt loam clay loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10	pgroup):  otion (Describe to to  Bottom Depth 10 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the indice Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/1 4/1	% 100 95 	C=Concentration	n, D=Depletion, RM=Reduced Matrix. CS Rec Color (Moist) 5/8	S=Covered/Coated Sand G  dox Features % 5	Type C	Location  M	(e.g. clay, sand, loam) silt loam clay loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10	pgroup):  otion (Describe to to  Bottom Depth 10 24	Montgomery silty of Vertic Endoaquolls to depth needed to document the indices of the the in	Color 10YR 10YR	Matrix (Moist) 2/1 4/1 	% 100 95 	C=Concentration	n, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/8	s-covered/Coated Sand G dox Features % 5	Type C	Location M	(e.g. clay, sand, loam) silt loam clay loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10	pgroup):  ption (Describe to the Depth	Montgomery silty of Vertic Endoaquolls to depth needed to document the indices Horizon  1 2	Color 10YR 10YR	Matrix (Moist) 2/1 4/1  	% 100 95  	C=Concentration	n, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/8	s-covered/Coated Sand G dox Features % 5	Type C	Location M	(e.g. clay, sand, loam) silt loam clay loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10	pgroup):  ption (Describe to the Depth	Montgomery silty of Vertic Endoaquolls to depth needed to document the indices Horizon  1 2	Color 10YR 10YR	Matrix (Moist) 2/1 4/1  	% 100 95  	C=Concentration	n, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/8	s-covered/Coated Sand G dox Features % 5	Type C	Location M	(e.g. clay, sand, loam) silt loam clay loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip  Top Depth 0 10 NRCS Hydric	Bottom Depth 10 24 Soil Field In	Montgomery silty of Vertic Endoaquolls to depth needed to document the indices to the depth needed to document the indices of the in	cator or confirm to Color 10YR 10YR	Matrix (Moist) 2/1 4/1      eators ar	% 100 95 e not pres		n, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/8	s=covered/Coated Sand G dox Features % 5 Indicators	Type C s for Problem	Location   M	(e.g. clay, sand, loam) silt loam clay loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10 NRCS Hydric	Degroup):  btion (Describe to to  Bottom Depth 10 24 Soil Field In A1- Histosol	Montgomery silty cl Vertic Endoaquolls the depth needed to document the india Horizon  1 2 dicators (check he	cator or confirm to Color 10YR 10YR	Matrix (Moist) 2/1 4/1 cators ar	% 100 95 e not pres	10YR	n, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/8	S-Covered/Coated Sand G dox Features % 5 Indicators	Type C s for Problen	Location  M	(e.g. clay, sand, loam) silt loam clay loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10 NRCS Hydric	Degroup):  Degroup):  Describe to	Montgomery silty of Vertic Endoaquolls to depth needed to document the indices of the depth needed to document the indices of the depth needed to document the indices of the indices of the indices of the document the indices of the	cator or confirm to Color 10YR 10YR	Matrix (Moist) 2/1 4/1 cators ar	% 100 95 S4 - Sand S5 - Sand	10YR sent □ y Gleyed y Redox	n, D=Depletion, RM=Reduced Matrix. CS  Rec Color (Moist)  5/8	s-covered/Coated Sand G dox Features % 5 Indicators	Type	Location  M	(e.g. clay, sand, loam) silt loam clay loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 24 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi	Montgomery silty of Vertic Endoaquolls to depth needed to document the indices to the indices to the document the indices to the document to the indices to the document to the indices to th	cator or confirm to Color 10YR 10YR	Matrix (Moist) 2/1 4/1 cators ar	% 100 95	10YR	n, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/8	s-covered/Coated Sand G dox Features % 5 Indicators	Type	Location  M	(e.g. clay, sand, loam) silt loam clay loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip  Top Depth 0 10 NRCS Hydric	Degroup):  Degroup):  Describe to	Montgomery silty cl Vertic Endoaquolls te depth needed to document the indice Horizon  1 2 dicators (check he bipedon stic n Sulfide	cator or confirm to Color 10YR 10YR	Matrix (Moist)	% 100 95 enot pres \$4 - Sand \$5 - Sand \$6 - Stripp	10YR	n, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 5/8	s-covered/Coated Sand G dox Features % 5 Indicators	Type	Location  M	(e.g. clay, sand, loam) silt loam clay loam
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Project/Site: Emerald Park Landfill - Western Expansion Wetland ID: Adj to W11 Sample Point W11-2u

VEGETATION (Species identified in all uppercase are non-native species.)

	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	RHAMNUS CATHARTICA	30	Υ	FAC	
2.	Acer negundo	15	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC:4(A)
3.				-	
4.					Total Number of Dominant Species Across All Strata: 6 (B)
5.					···
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
7.					···
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0
	Total Cover =	45			FACW spp. 34 x 2 = 68
					FAC spp. 80 x 3 = 240
pling/Shrub	Stratum (Plot size: 15 ft radius)				FACU spp. 20 x 4 = 80
1.	Cornus racemosa	20	Υ	FAC	UPL spp. 4 x 5 = 20
2.	LONICERA X BELLA	20	Υ	FACU	··· <del></del>
3.	RHAMNUS CATHARTICA	15	N	FAC	Total 138 (A) 408 (B)
4.	Cornus alba	10	N	FACW	······ <u>····</u> ···
5.	Salix interior	10	N	FACW	Prevalence Index = B/A = 2.957
6.	Ribes americanum	2	N	FACW	
7.	Rubus occidentalis	1	N	UPL	
8.				-	Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					✓ Yes ☐ No Dominance Test is > 50%
10.	Total Cover =	78			✓ Yes ☐ No Prevalence Index is ≤ 3.0 *
	Total Cover –	70			
C44 /I	Dist sine. Eft redice)				
1.	Plot size: 5 ft radius)  Ribes americanum	10	Υ	FACW	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
2.	Rubus occidentalis	3	Ÿ	UPL	* Indicators of hydric soil and wetland hydrology must be
3.	Symphyotrichum lateriflorum	2	N	FACW	present, unless disturbed or problematic.
3. 4.					Definitions of Vegetation Strata:
<del>4.</del> 5.	<del></del>				Deminions of vegetation strata.
5. 6					Troo
					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					Brodet Holght (BBH), rogal diose of Holght.
8.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28
9.					ft, tall.
10.					
11.					The state of the s
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.					
14.	<b></b>				
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	15			
oody Vine St	ratum (Plot size: 30 ft radius)				
1.					
2.					
3.				-	Hydrophytic Vegetation Present ☑ Yes ☐ №
4.				-	
5.					
	Total Cover =	0			

#### Additional Remarks:

Hydrophytic vegetation and hydric soils present, although due to the invasive nature of the plants and a lack of wetland hydrology indicators, the sample point was determined to be upland.