

Appendix E

Field Results

This appendix contains all field data collected for each of the wetland and upland areas investigated during the 2008/2009 wetland study.

- 1) Table E-1: Comprehensive Wetland Table presents all wetlands identified during the 2008/2009 study with notes on history, vegetation, soil, and hydrology.
- 2) Routine Wetland Determination Data Forms (data forms) for each area investigated during the 2008/2009 study.
- 3) Floristic Quality Assessment (FQA) results for each wetland plant inventory in the study area.
- 4) Section maps showing the field investigation results with wetland soil cores, upland soil cores and upland photo locations.

Field documentation is grouped by the fifteen Township/Sections within the study area (see below). Each Section group of data forms and FQA reports is accompanied by a summary table of all areas investigated in that Section and an aerial map showing the location of all results in that Section.

Monee Township

Section 31

Will Township

Sections 1-6

Sections 8-12

Washington Township

Sections 6-8

Table E-1
Comprehensive Wetland Table with notes on history, vegetation, soil, and hydrology

Wetland ID	Wetland Type	NWI	Mapped Hydric	Native FQI	1996 NRCS	1996 Slide	2002 Slide	2008 Slide	Initial Year	Acreage	Comments
M31NE-3	Wetland Complex	PEMC	Y	NA	W	W			1996	0.56	Edge of adjacent wetland, not visited during field work, from previous investigation
M31NE-5	PEM	No	Y	2.0				W	2008	0.08	herbicides farmed wet depression
M31NE-6	PEM	No	Y	0.0				W	2008	0.58	
M31NE-7	PEM	No	Y	3.6			W		2002	0.40	
M31NE-12a	PEM	No	In part						2008	0.18	Wet meadow at edge of drainageway
M31NE-12b	PEM; Stream	No	In part						2002	0.30	tilled drainageway with intermittant channel and wet veg;
M31SW-1a	PEM; Stream	No	Y				W		1996	0.07	tilled drainageway with intermittant channel and wet veg;
M31SW-1b	PEM; Stream	No	Y				W		1996	0.33	Segment of open channel in tiled drainageway
M31SW-1d	PEM; Stream	No	Y				W		2002	0.02	Segment of open channel in tiled drainageway
M31SW-1e	PEM; Stream	No	Y				W		2002	0.01	Segment of open channel in tiled drainageway
M31SW-1f	PEM; Stream	No	Y				W		2002	0.01	Segment of open channel in tiled drainageway
M31SW-1g	PEM; Stream	No	Y				W		2002	0.03	Segment of open channel in tiled drainageway
M31SW-1h	PEM; Stream	No	Y				W		2002	0.03	Segment of open channel in tiled drainageway
M31SW-1k	PSS; PEM	No	Y						2008	0.19	Willow thicket at head of channel
W01NE-1a	PFO	PFO1A	Y		W	Ditch			1996	0.41	Part destroyed by Bolt field construction
W01NE-1b	PEM/FW	No	Y				W		2002	1.52	
W01NE-2	PEM/FW	No	Y	0.0			W		2002	2.54	
W01NE-4	PEM/FW	No	Y	2.4			Drainage		2002	0.59	
W01NE-6a	PEM/FW	No	Y					X	2008	0.43	
W01NE-6b	PEM/FW	No	Y						X	2008	0.04
W01NE-7	PEM/Ditch	No	Y	6.1				X	2008	0.14	
W01NE-9a	PEM	No	Y					W	2008	1.03	
W01NE-9b	PEM/FW	No	In part						2008	0.01	
W01NE-9c	PEM/FW	No	In part						2008	0.05	
W01NE-9d	PEM	No	Y						2008	0.03	
W01NW-2a	PEM	No	In part		FW	FW			1996	0.78	Remnant of larger 1996 unit
W01NW-2b	PEM	No	In part				FW		2002	0.05	Remnant of larger 1996 unit
W01NW-3a	PEM	No	In part		FW	FW			1996	0.69	Remnant of larger 1996 unit
W01NW-3b	PEM	No	In part				FW		2002	0.03	Remnant of larger 1996 unit
W01NW-6a	PEM	No	Y	8.7			W		2002	0.35	
W01SE-1	POW/PEM	No	Y	14.0	W	Pond			1996	0.28	
W01SE-2a	PFO, PSS	No	Y	20.3	W	Drainage			1996	0.04	Long drainage way with intermittant tile and open channel; mostly trees
W01SE-2b	PFO, PSS	No	Y	8.1	W	Drainage			1996	0.01	
W01SE-2c	PFO, PSS	No	Y		W	Drainage			1996	0.01	
W01SE-2d	PFO, PSS	No	Y		W	Drainage			1996	0.12	
W01SE-2e	PFO, PSS	No	Y		W	Drainage			1996	0.06	
W01SE-2f	PFO, PSS	No	Y		W	Drainage			1996	0.09	
W01SE-2g	PFO, PSS	No	Y		W	Drainage			1996	0.08	
W01SE-2h	Wetland Complex	No	Y		W	Drainage			1996	0.27	Seepy area at edge of field; head of stream for W01SE2
W01SE-3	Wetland Complex	PEMC	Y	16.0	PC	W			1996	1.48	FW-PC; Part open, Part wooded ravine
W01SE-4	PEM	No	Y	0.0		W			1996	0.03	depression at edge of field/open water
W01SE-5	PFO	No	In part	4.2			W		2002	0.16	
W01SE-6	POW	No	In part	2.0			FW		2002	5.91	Retention Pond under construction on Bolt property
W01SE-7	PFO	No	Y	10.3			Drainage		1996	3.01	
W01SE-10	PEM	No	Y	1.7					2008	0.02	
W01SE-13	PEM	No	Y	11.1				W	2008	0.03	
W01SE-14	PFO, PSS	No	In part	16.2	W	Drainage			2008	0.02	PEM, PSS near channel
W01SW-1	PEM	No	Y	10.3	PC	FW			1996	2.77	
W01SW-4a	PEM	No	Y	10.6		Drainage			1996	0.91	2008 polygon is larger
W01SW-4b	PEM	No	In part	4.6		Drainage			1996	0.03	

Table E-1

Wetland ID	Wetland Type	NWI	Mapped Hydric	Native FQI	1996 NRCS	1996 Slide	2002 Slide	2008 Slide	Initial Year	Acreage	Comments
W01SW-8	PEM	No	In part	2.0					2008	0.01	wet veg in tiled ditch
W01SW-10	PEM	No	In part	2.5					2008	0.04	
W02NE-1	PEM	No	Y	11.4	W	W			1996	2.36	Grassed waterway
W02NE-4a	Wetland Complex	No	In part	9.0			W		2002	0.04	Seepy area at base of slope; many tile blowouts
W02NE-4b	Wetland Complex	No	In part						2002	0.01	Seepy area at base of slope; many tile blowouts
W02NE-4c	Wetland Complex	No	In part						2002	0.02	Seepy area at base of slope; many tile blowouts
W02NE-5	PEM/FW	No	Y	5.9				W	2008	0.38	
W02NE-6	PEM	No	Y	7.8				W	2008	0.06	Mucky spot; high water table
W02NE-7	Stream; PFO	No	Y	6.9					2008	0.55	Meandering stream channel in woods at base of hill; tile and seep H2O
W02NW-2	Stream; PEM	PEMCD	Y	13.6	W	W			1996	1.12	Intermittant tiled stream with marsh
W02NW-5	PEM/Seep	No	In part	4.9				W	2008	0.05	Seepage on gentle slope in pine plantation
W02NW-6	PEM/FW	No	Y	0.0					2008	2.70	Large farmed wetland
W02NW-7	PEM;PSS	No	In part	20.1					2008	0.37	Low swale at base of hill
W02NW-9	PEM;PSS	No	Y	6.3			W		2002	0.15	Tiled and excavated within last 10yrs; recent spoil piles also present
W02SE-2	POW	PUBG	Y	NA	W				1996	1.97	excavated pond
W02SE-4	PEM	No	Y	4.1			W		2002	0.14	Grassed waterway
W02SE-5	PEM;PSS	No	Y	12.6			W		2002	1.34	
W02SE-7	PEM	No	In part	6.0					2008	0.10	Wet meadow
W02SE-8	PEM;PSS	No	In part	9.3			W		2002	0.48	
W02SE-9	PEM	No	In part	6.0					2008	0.01	
W02SE-10	PEM/PSS	No	In part	8.0					2008	0.40	Low spot in ag field
W02SE-12a	PSS	No	In part	9.0					2008	1.00	Dogwood Thicket
W02SE-12b	PEM/PFO	No	In part						2008	0.16	Wet herb.veg under trees
W02SW-1	Wetland Complex	PSS1C	Y	6.9	W	W			1996	2.68	Swale;wet veg. 2008 includes W02SW2a and 2b;PEM;PSS; PFO;
W02SW-3a	Wetland Complex	No	Y	7.2	W	W			1996	2.41	PEM;PSS; PFO; R4SBJ
W02SW-3b	PEM; PFO	No	In part						2008	0.24	Ponded, grassy area under trees.
W02SW-5	PEM; Seep	No	In part	6.6					2008	0.19	Seepage on gentle slope in meadow
W02SW-6a	PEM; R4SBJ	No	Y	0.0					2008	0.11	
W02SW-6b	PEM; R4SBJ	No	In part						2008	0.07	
W02SW-6c	PEM; R4SBJ	No	In part						2008	0.05	
W02SW-6d	PEM; R4SBJ	No	In part						2008	0.05	
W02SW-7	PEM	No	In part	8.0					2008	0.24	Standing water; wet meadow depression.
W02SW-9	PEM	No	Y	9.8					2008	0.41	Marsh
BWC-W02	Stream;PFO	R2OWHx	Y	12.8					1996	3.78	
W03NW-2	PEM/Ditch	No	Y	5.6		W	/(NW3only	W	1996	0.37	Includes part of W03NW3
W03SE-1	PEM	No	In part	6.1				W	2008	0.12	
W03SW-1	PEM	No	In part	6.4				W	2008	0.11	
BWC-W03	Stream;PFO	R2OWHx	Y	13.6					1996	8.11	
W04SE-1a	PEM	PEMC	Y	0.0	W	W			1996	0.09	Grassed waterway
W04SE-1b	Wetland Complex	PEMC	Y	13.3	W	W			1996	8.60	Marsh; Thicket; Grove and Grassed waterway
W04SE-2a	Wetland Complex	PEMC/PEMAf	Y	8.9		W			1996	1.49	Branch of BWC; PFO;PSS and Pem
W04SE-2b	PEM	PEMC; PEMAf	Y	0.7		W			1996	0.13	Grassed waterway
W04SE-2c	PEM	PEMC; PEMAf	Y			W			1996	0.04	Grassed waterway
W04SE-5	PEM/FW	No	In part	0.0			W		2002	1.96	
W04SE-10	PEM	No	In part	0.0				W	2008	0.14	
W04SE-14	PEM	No	Y	5.3			W		2002	0.05	Tiled grassed waterway to BWC waterway
W04SE-15	PEM/Seep	No	In part	6.4					2008	0.34	Seep on slope between corn
W04SW-1a	Wetland Complex	PEMC	Y	15.7	W	W			1996	2.26	Willow thicket; sedge meadow; PFO

Table E-1
Comprehensive Wetland Table with notes on history, vegetation, soil, and hydrology

Wetland ID	Wetland Type	NWI	Mapped Hydric	Native FQI	1996 NRCS	1996 Slide	2002 Slide	2008 Slide	Initial Year	Acreage	Comments
W04SW-1b	PEM	No	Y	6.3				W	2008	0.03	
W04SW-1c	PEM	No	Y					W	2008	0.01	
W04SW-2	Wetland Complex	No	Y	2.3			W		2002	2.12	PFO;Stream;PEM
W04SW-3a	Wetland Complex	No	Y	20.9			W		2002	1.67	Seepy, wet meadow; sloping drainageway.
W04SW-3b	PEM/FW	No	Y	0.0					2008	0.03	low spot in ag field
W04SW-7	PEM	No	Y	0.0				W	2008	0.02	
W04SW-8	PEM/FW	No	In part	0.0				W	2008	0.05	low spot,drainageway in ag field
W04SW-9	PEM	No	In part	7.8				W	2008	0.17	
W04SW-10	Wetland Complex	No	Y	10.6				W	2008	1.97	
W04SW-12	PEM/FW	No	Y	0.8				W	2008	0.14	
W04SW-14	PEM/FW	No	In part	4.9				W	2008	0.39	Severely eroded, tiled grassed waterway
BWC-W04a	Stream;PFO	R2OWHx	Y	12.4					1996	3.97	BWC and branch; PEM;PFO; Stream
BWC-W04b	Stream;PFO	No	Y	7.2			W		2002	0.31	
BWC-W04c	Stream;PFO	No	Y	1.5			W		2002	0.17	
W05NW-1	PEM/FW;PSS	PEMC	Y	17.2	FW	FW			1996	2.01	Large farmed wetland with willow thicket
W05NW-2a	Wetland Complex	No	Y	21.1	W	W			1996	14.81	Large PEM;PFO;PSS next to Rock Creek; 2008 polygon larger
W05NW-2b	PEM; PFO	No	In part	6.3					2008	0.09	Small emergent/wooded area next to drainage corridor
W05SE-2	PEM/FW	No	In part	0.0			W		2002	1.14	
W05SW-1	Wetland Complex	PEMCd	Y	9.8	PC	W	Modified		1996	0.68	
W05SW-3	Wetland Complex	No	In part	12.4	W	W			1996	0.74	PFO;PSS;PEM; drainageway
W05SW-6	PEM	No	In part	0.0				W	2008	0.16	
W05SW-9	PSS; PEM	No	Y	9.0			W		1996	0.10	Wetland continues past boundary
W06NE-1	PEM; Drainageway	R2OWHx	Y	7.0	W	W			2002	0.45	
W06NE-2	PEM	No	Y	0.5					1996	0.85	no boundary points along SE boundary, so ran along NWI boundary - QC and re
W06NE-3	PEM;	No	In part	10.0					2008	0.07	
W06NE-5	PEM/FW	No	Y	4.0				W	2008	0.19	
W06NW-1a	POW	POWGx	Y	NA	AW	Pond			1996	2.85	Sewage settling pond
W06NW-1b	POW	POWGx	Y	NA	AW	Pond			1996	0.58	Sewage settling pond
W06NW-2	POW	POWGx	Y	NA	W	Pond			1996	0.19	Sewage settling pond
W06NW-3	PFO; Stream	No	Y	12.2			W	2008 in pa	1996	2.44	
W06NW-4	PFO; Stream	No	Y	5.0			W		1996	0.44	
W06NW-5a	PEM	No	In part	5.9					2008	0.21	
W06NW-5b	PEM	No	Y						2008	1.15	
W06NW-6	PEM	No	Y	5.7					2008	0.11	
W06NW-7	PEM; Stream	No	In part	NA					2002	0.32	
RC-W06	Stream; PFO	R2OWHx	Y	NA	W	Stream			1996	0.89	Rock Creek channel, not visited during field work, from previous investigation
W08NE-1	PEM	No	In part	0.0				W	2008	0.09	
W08NE-2	PEM	No	In part	1.6				W	2008	0.04	
W08NE-3	POW/PEM	No	In part	8.3				W	2008	0.02	Pond in front yard
W08NE-4	POW/PEM	No	Y	7.8				W	2008	0.10	Pond in front yard
W08NE-5	PEM	No	In part	6.4			W		2002	0.05	
W08NE-6	PEM	No	In part	3.5			W		2002	0.40	used combination of corrected and uncorrected data to get most accurate
W08NE-7	PEM	No	In part	9.9			W		2002	0.17	
W09NE-2	PEM/FW	No	In part	4.0		PC			1996	5.88	cultivated
W09SW-3	PEM	No	Y	10.7			W	W	1996	0.31	Combined SW-2 and SW-3; smaller than original id
BWC-W09a	Stream;PFO	R2OWHx	Y	8.8					1996	0.61	BWC; Stream
BWC-W09b	Stream;PFO	R2OWHx	Y	8.9					1996	2.84	BWC; Stream

Table E-1
Comprehensive Wetland Table with notes on history, vegetation, soil, and hydrology

Wetland ID	Wetland Type	NWI	Mapped Hydric	Native FQI	1996 NRCS	1996 Slide	2002 Slide	2008 Slide	Initial Year	Acreage	Comments
W10NE-1	POW	POWGx	In part	5.5	AW	Pond			1996	0.05	used combination of corrected and uncorrected data to get most accurate
W10NE-2	PEM/FW	No	Y	2.8	FW	FW			1996	0.70	
W10NE-3	PEM/FW	No	Y	0.0	PC	PC			1996	1.74	
W10NE-4	PEM/FW	No	Y	1.5			FW		2002	3.13	in part; 1996 polygon is smaller and to the south of 2008
W10NW-1	PEM/FW	PEMAf	Y	0.0	PC	PC			1996	0.18	
BWC-W10	Stream;PFO	R2OWHx	Y	16.3			W		2002	1.72	BWC; Stream
W11NE-1	POW/PEM	POWGx	Y	10.6	W	Pond			1996	2.10	Pond with wetland fringe
W11NE-2	POW	No	Y	12.4		Pond			1996	0.54	W 90-94
W11NE-2b	Stream	No	Y						1996	1.56	S. branch Rock Creek
W11NE-4	PEM/FW	No	Y	4.9		FW			1996	0.41	Larger in 1996
W11NW-1a	PEM	No	Y	3.0		FW			1996	0.01	Grassed waterway. Part of NW-1; smaller than original polygon
W11NW-1b	PEM	No	Y	3.5		FW			1996	0.09	Grassed waterway. Part of NW-1; smaller than original polygon
W11NW-2	PEM/FW	No	Y	0.0		FW			1996	0.48	Smaller than 1996 polygon
W11NW-10	PEM/FW	No	In part	5.0			FW		2002	0.28	
W11SW-2	Stream	No	Y	11.4					1996	1.87	S. branch Rock Creek
W12NE-3	PEM	No	Y	2.1		PC			1996	0.16	Small wet area in dry polygon
W12NE-4	PEM/FW	No	Y	15.4		Pond			1996	0.83	
W12NE-5	PEM	No	Y	0.9					2008	0.38	
W12NE-6a	PEM	No	Y	5.3			W		2002	0.01	Narrow linear feature
W12NE-6b	PEM	No	Y	8.6					2002	0.09	Wet polygon next to drainage
W12NW-1	PEM/FW	PEMAf	Y	8.1	FW	FW			1996	0.67	
W12NW-2	PEM/FW	PEMAf	Y	7.6	FW	FW	W		1996	0.38	
W12NW-3	POW	No	In part	11.5			Pond		2002	0.74	
W12NW-4	Stream	R2OWHx	Y	5.3			W		2002	0.41	Drain from W01SW4 north; tiled segment of trib of SBRC.
W12NW-5	POW/PEM	No	Y	9.3			W		2002	0.49	
W12NW-6	POW	No	Y	8.7			Pond		2002	0.08	
W12NW-7b	PEM	No	In part	5.4			W		2002	0.19	
W12NW-7c	PEM	No	Y				W		2002	0.04	
W12NW-8	PEM	No	Y	7.0			W		2002	1.69	Next to channel
W12NW-12	PEM/FW	No	Y	4.0				W	2008	0.28	
WS06NE-2a	PEM	PFO1C/PEMC	Y	2.7	W	Ditch			1996	0.00	
WS06NE-2b	PEM; PFO	PFO1C/PEMC	Y	9.2	W	Ditch			1996	0.01	
WS06NE-3	Wetland Complex	PEMC	Y	10.2	W	W			1996	2.63	
WS06NE-5	PEM/FW	No	Y	0.0		FW	PC		1996	0.70	W 90,91,94
WS06NW-1	PEM/FW	PEMAf	In part	6.0	PC	PC			1996	1.31	
WS06NW-2	Wetland Complex	PEMC	Y	6.8	PC	FW			1996	1.57	
WS06NW-3b	PEM/FW	No	Y	0.0		PC	W		2002	0.08	
WS06NW-4a	Wetland Complex	No	Y	7.5					2008	0.09	Stream thru cow pasture
WS06NW-4b	PEM/Stream	No	Y					W	2008	0.38	
WS06SW-2b	Wetland Complex	No	Y	3.5	W	Ditch			1996	0.40	Tributary to Plum Creek; PFO,PSS,
WS06SW-8	PEM	No	In part	9.3				W	2008	1.23	
WS07NE-9	PEM; PSS	No	Y	1.1				X	2008	0.29	
WS07NW-1	POW	POWHx	Y	7.0	W	Pond			1996	1.79	
WS07NW-2	PEM	PEMCf	Y	8.1	PC	W			1996	6.03	
WS07NW-3a	PEM	No	Y	10.8				X	2008	2.01	
WS07NW-3b	PEM	No	Y					X	2008	0.05	

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Wetland ID	Wetland Type	NWI	Mapped Hydric	Native FQI	1996 NRCS	1996 Slide	2002 Slide	2008 Slide	Initial Year	Acreage	Comments
WS07SE-1	Wetland Complex	PEMAf,PEMCd,	Y	25.5	W/PC	W/FW			1996	111.39	number for all Beecher marsh areas
WS07SE-1b	POWHx	No	Y					X	2008	0.31	man-made pond south of marsh
WS07SE-7	PEM	No	Y	3.6				X	2008	0.05	
WS07SE-8	PEM	No	Y	2.3				X	2008	0.08	
WS08NE-4	PEM/Stream	No	Y	10.0		PC		X	2008	0.53	
WS08NE-5	PEM/FW	No	Y	2.9		PC		X	2008	0.71	
WS08NE-6	PEM/FW	No	In part	3.5		PC		X	2008	0.11	
WS08NW-1	Wetland Complex	No	Y	3.6	W	W			1996	0.22	PEM/PSS/PFO
WS08NW-2	Wetland Complex	PEMAf	Y	7.3	PC	W			1996	0.61	PEM/PSS/PFO
WS08NW-4	PEM/FW	No	Y	0.0	PC	W			1996	0.38	
WS08NW-5	PEM/FW	No	Y	0.0	PC	PC			1996	0.65	
WS08NW-9	PEM	No	Y	8.8	PC	no		X	2008	0.66	
WS08SW-2a	PEM	No	Y	5.4	W	W			1996	0.02	
WS08SW-2b	PEM	No	Y		W	W			1996	0.00	
WS08SW-2c	PEM	No	Y		W	W			1996	0.00	
WS08SW-2d	PEM	No	Y		W	W			1996	0.01	
WS08SW-2e	PEM	No	Y		W	W			1996	0.00	
WS08SW-3	PEM/FW	No	Y	0.0	PC	PC			1996	0.22	

KEY TO TABLE E-1:
WETLAND ID

Lists polygon in order by township, section and quarter section location: W01SE-2a is in Will Township, Section 1, southeast quarter. A number suffix (-2) is assigned in order of entry. An alpha modifier is used (“a”) when a collection of similar wetlands is identified with one set of soil cores. Stretches of Black Walnut Creek (BWC), Rock Creek (RC) and the South Branch of Rock Creek (SBRC) have an alpha designator.

WETLAND TYPE

USFWS wetland classifications Palustrine (inland wetlands) and Riverine (associated with a stream): PEM=Emergent Wetland including marshes, wet meadows, sedge meadows and farmed wetlands
PFO=Forested Wetlands
PSS=Scrub-Shrub including typically willow, dogwood and/or elderberry thickets as well as sapling trees.
POW=Open Water including both naturally-occurring and man-made ponds
Wetland Complex= Areas comprised of three or more wetland types
Riverine=Streams and Drainageway channels; The numeric modifier refers to flow regime.

NWI

Uses USFWS types PEM, PFO, and PSS. Upper-case alpha modifiers for hydrologic regime and lower-case alpha modifiers for special conditions: PEMAf=PEM, temporarily flooded, farmed; PEMCd=PEM, seasonally flooded, partially drained/ditched; POWHx=Open Water, permanently flooded, excavated

MAPPED HYDRIC

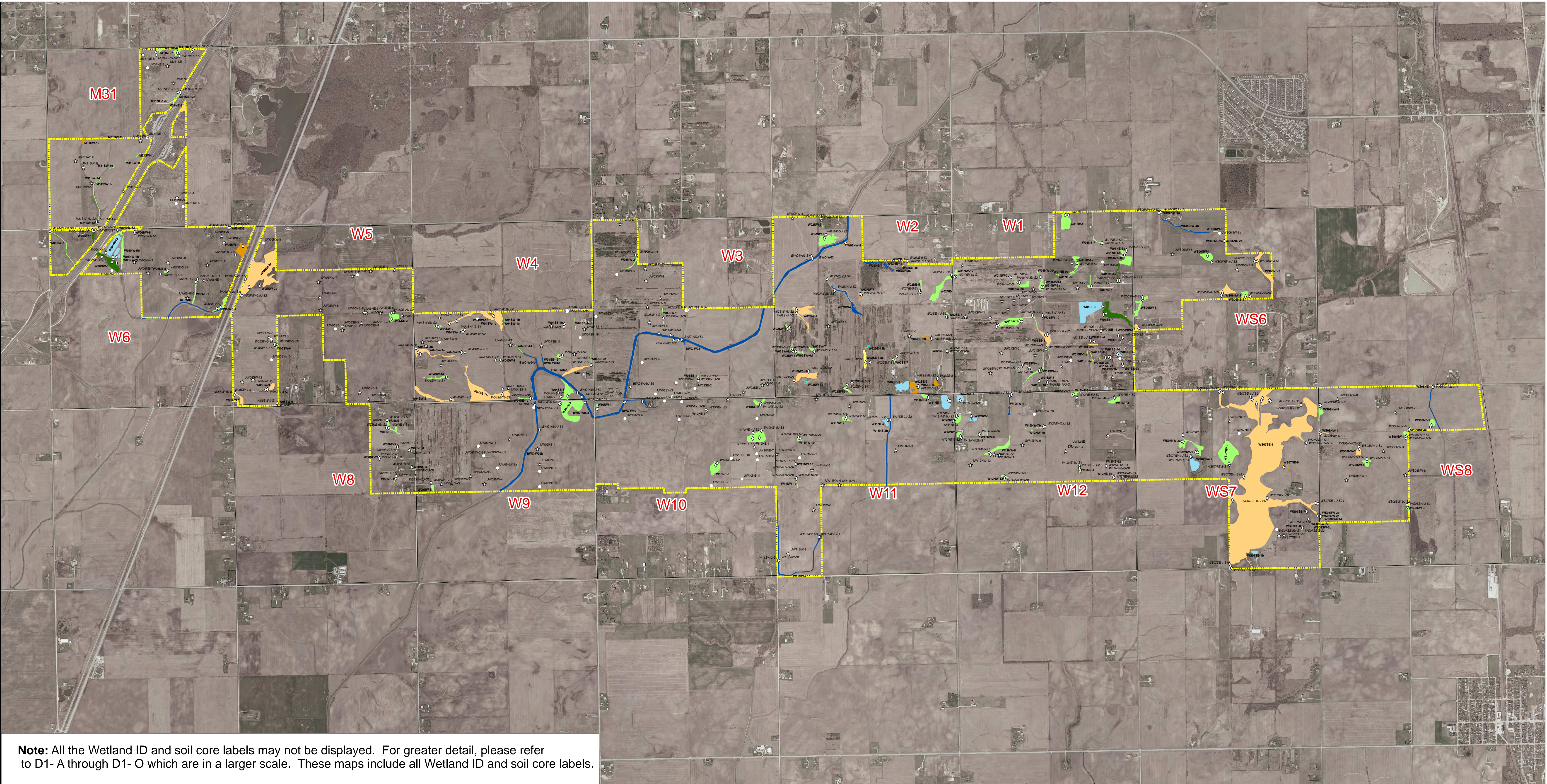
Indictates whether or not the polygon occurs in a mapped hydric soil unit

NRCS 1996

Polygons originally found on NRCS Wetland Maps during the 1996 study.
W-- uncultivated wetland.
FW-- farmed wetland
PC-- prior converted wetland (converted to agricultural use prior to December 23, 1985).
NW-- non-wetland
AW-- artificial wetland, including excavated ponds, quarries or gravel pits, and settling ponds.

NRCS MAPPING CONVENTION AERIAL SLIDE REVIEW

Year of aerial Slide review.



Legend

Wetland Type

PEM

PSS

PFO

PEM/PFO

PSS/PEM

PFO/PSS

POW

Stream

Wetland Complex

2008 Study Boundary

Sections

Upland Soil Cores

Upland Photo Locations

Wetland Soil Cores

N

EXHIBIT E-1
2008 - 2009 FIELD INVESTIGATION RESULTS
South Suburban Airport

Illinois Department of Transportation
Division of Aeronautics

0

2,000

4,000

8,000

12,000

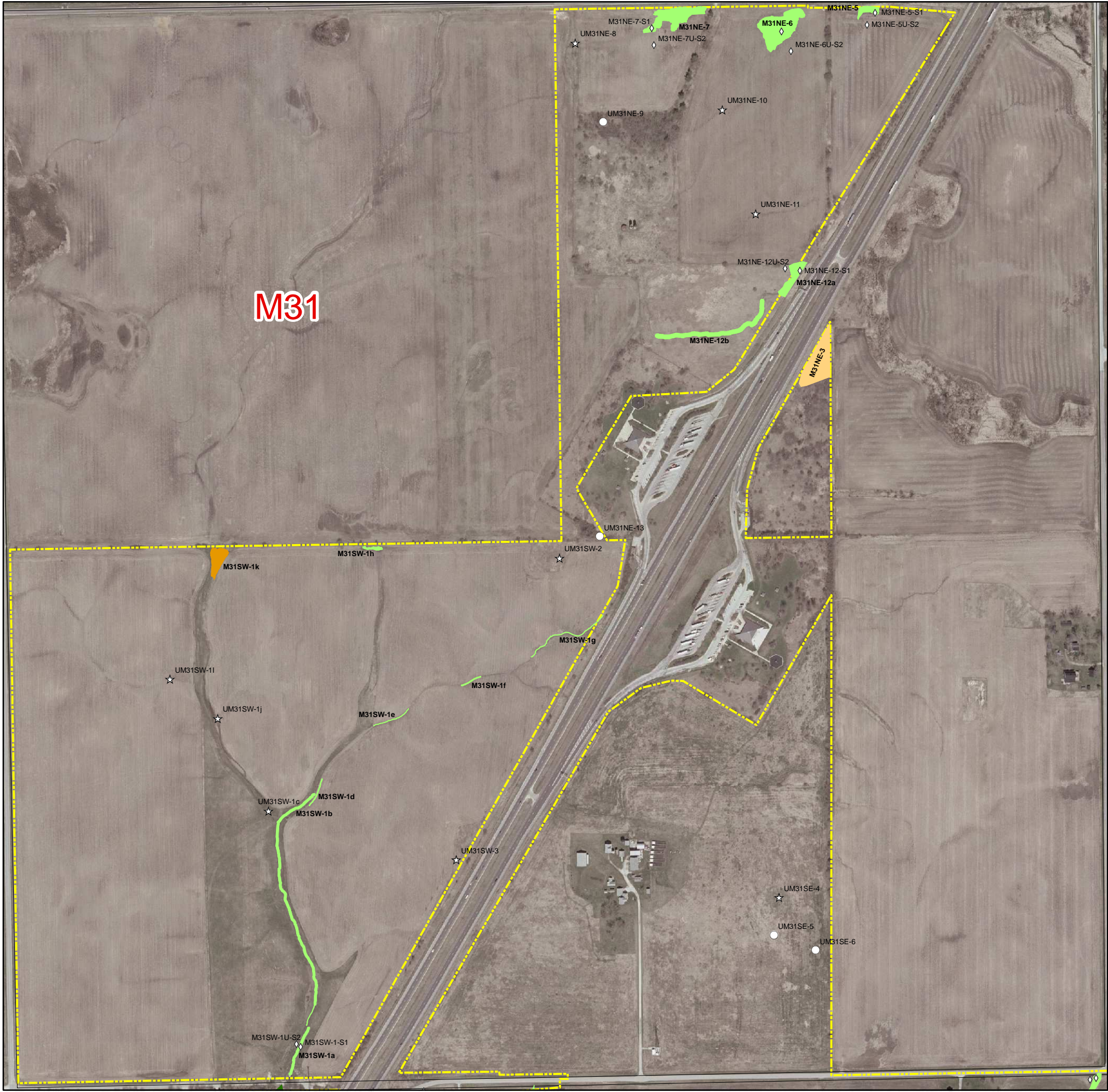
Feet

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Appendix E
Section Monee 31

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
M31NE-3	NA	NA	NA	No field form, not visited
M31NE-5-S1	25	Yes	2.0	
M31NE-5U-S2	21	No		
M31NE-6-S1	20	Yes	0.0	
M31NE-6U-S2	21	Yes		
M31NE-7-S1	22	Yes	3.6	
M31NE-7U-S2	20	Yes		
UM31NE-8	NA	NA	NA	Photo S
UM31NE-9	21	Yes	NA	
UM31NE-10	NA	NA	NA	Photo W
UM31NE-11	NA	NA	NA	Photo E
M31NE-12-S1	21	Yes	5.4	
M31NE-12U-S2	21	No		
UM31NE-13	20	No	NA	
UM31SE-4	NA	NA	NA	Photo S
UM31SE-5	20	No	NA	
UM31SE-6	27	No	NA	
M31SW-1-S1	21	Yes	9.0	
M31SW-1U-S2	21	Yes		
UM31SW-1c	NA	NA	NA	Photo NW, no data form
UM31SW-1l	NA	NA	NA	Photo E, no data form
UM31SW-1j	NA	NA	NA	Photo S, no data form
UM31SW-2	NA	NA	NA	Photo W
UM31SW-3	NA	NA	NA	Photo N

NA = not applicable



Legend

Wetland Type

- PEM
- PSS
- PFO
- PEM/PFO
- PSS/PEM
- PFO/PSS
- POW
- Stream
- Wetland Complex

2008 Study Boundary

Sections

Upland Soil Cores

Upland Photo Locations

Wetland Soil Cores

N

EXHIBIT E-1A

Monee Township Section 31

2008 - 2009 FIELD INVESTIGATION RESULTS

South Suburban Airport

Illinois Department of Transportation
Division of Aeronautics

AECOM

0 250 500 1,000 1,500 Feet

Site: Inaugural South Suburban Airport
 Locale: M31NE5
 Date: September 30, 2008 1 hours
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\M31NE5.inv
 Notes: Area impacted by herbicide

FLORISTIC QUALITY DATA	Native	6	50.0%	Adventive	6	50.0%
6 NATIVE SPECIES	Tree	1	8.3%	Tree	0	0.0%
12 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.8 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.4 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
2.0 NATIVE FQI	P-Forb	1	8.3%	P-Forb	3	25.0%
1.4 W/Adventives	B-Forb	0	0.0%	B-Forb	1	8.3%
-2.7 NATIVE MEAN W	A-Forb	2	16.7%	A-Forb	1	8.3%
-0.7 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Fac. Wetland	A-Grass	1	8.3%	A-Grass	1	8.3%
	P-Sedge	1	8.3%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
ELEERY	2 Eleocharis erythropoda	-5 OBL	Nt P-Sedge	RED-ROOTED SPIKE RUSH
ERICAN	0 Erigeron canadensis	1 FAC-	Nt A-Forb	HORSEWEED
LACSER	0 LACTUCA SERRIOLA	0 FAC	Ad B-Forb	PRICKLY LETTUCE
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
POLLAP	0 Polygonum lapathifolium	-4 FACW+	Nt A-Forb	HEARTSEASE
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																									
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: T. Radke #2: Robyn West						Date: 09/30/08 County: Will State: Illinois Community ID: FW Station ID: M31NE-5 Plot ID: S1																																																			
Do Normal Circumstances Exist On The Site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Uncultivated area next to corn field. Some vegetation appears brown, dying and wilted as if the area had been herbicided																																																			
VEGETATION																																																									
Dominant Species (50/20 Rule)																																																									
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12. --	--	--	--																																																						
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. Vegetation difficult to estimate because of dead/dying stems																																																									
HYDROLOGY																																																									
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks <input checked="" type="checkbox"/> Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)																																																				
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)					Remarks: Wetland hydrology is present. Uncropped area in corn field--soil cracks and bare areas. NRCS aerial review site.																																																				
SOILS																																																									
Map Unit Name: Ashkum silty clay loam Taxonomy (Subgroup): Typic Endoaquolls						Series Drainage Class: Poorly Drained Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																			
Profile Description: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Top</th> <th style="width: 5%;">Bottom</th> <th style="width: 10%;">Horizon</th> <th style="width: 10%;">Matrix Color (Munsell Moist):</th> <th style="width: 10%;">Mottle Colors (Munsell Moist):</th> <th style="width: 10%;">Mottle Abundance/Contrast</th> <th style="width: 50%;">Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>24</td> <td>A1</td> <td>10YR 2/1</td> <td>10YR 4/4</td> <td>few distinct</td> <td>silty clay loam; moist friable</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	0	24	A1	10YR 2/1	10YR 4/4	few distinct	silty clay loam; moist friable																																		
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Remarks: Hydric soils are present.						¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																			
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Remarks: This plot is located in wetland.																																																									

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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: T. Radke #2: R. West						Date: 09/30/08 County: Will State: Illinois Community ID: Upland Station ID: M31NE-5 Plot ID: S2																																																									
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ X Yes _____ No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: Next to corn field; appears to have been herbicided																																																									
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Remarks: Hydric soils are not present. Profile resembles Ashkum, but lacks indicators. Buried horizon at 17". Area has unnatural aspect as if disturbed by fill or dumping.																																																															
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Remarks: This plot is not located in wetland.																																																															

Site: Inaugural South Suburban Airport
 Locale: M31NE6
 Date: September 30, 2008 1 hours
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\M31NE6.inv

FLORISTIC QUALITY DATA	Native	5	41.7%	Adventive	7	58.3%
5 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
12 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.6 NATIVE MEAN W	A-Forb	3	25.0%	A-Forb	4	33.3%
0.6 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Fac. Wetland (-)	A-Grass	2	16.7%	A-Grass	3	25.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
AMAHYB	0 Amaranthus hybridus	5 UPL	Nt A-Forb	GREEN AMARANTH
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
HIBTRI	0 HIBISCUS TRIONUM	5 UPL	Ad A-Forb	FLOWER-OF-AN-HOUR
IPOHED	0 IPOMOEA HEDERACEA	0 FAC	Ad A-Forb	IVY-LEAVED MORNING GLORY
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
POLLAP	0 Polygonum lapathifolium	-4 FACW+	Nt A-Forb	HEARTSEASE
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SETITA	0 SETARIA ITALICA	3 FACU	Ad A-Grass	FOXTAIL MILLET

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																				
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: T. Radke #2: R. West						Date: 09/30/08 County: Will State: Illinois Community ID: FW Station ID: M31NE-6 Plot ID: S1																																																														
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VEGETATION Dominant Species (50/20 Rule) <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 10%;"></th> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr><td>1. <i>Setaria glauca</i></td><td>FAC</td><td>HERB</td><td>20</td><td></td><td>7. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>2. <i>Hibiscus trionum</i></td><td>UPL</td><td>HERB</td><td>20</td><td></td><td>8. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>3. <i>Echinochloa crusgalli</i></td><td>FACW</td><td>HERB</td><td>10</td><td></td><td>9. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>4. --</td><td>--</td><td>--</td><td>--</td><td></td><td>10. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>5. --</td><td>--</td><td>--</td><td>--</td><td></td><td>11. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>6. --</td><td>--</td><td>--</td><td>--</td><td></td><td>12. --</td><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover	1. <i>Setaria glauca</i>	FAC	HERB	20		7. --	--	--	--	2. <i>Hibiscus trionum</i>	UPL	HERB	20		8. --	--	--	--	3. <i>Echinochloa crusgalli</i>	FACW	HERB	10		9. --	--	--	--	4. --	--	--	--		10. --	--	--	--	5. --	--	--	--		11. --	--	--	--	6. --	--	--	--	
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant.						HYDROLOGY <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <div style="margin-left: 20px;"> <input type="checkbox"/> Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos <input type="checkbox"/> Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available </div> </div> <div style="width: 50%;"> Wetland Hydrology Indicators: <input type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks) </div> </div>																																																														
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SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																				
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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: T. Radke #2: R. West						Date: 09/30/08 County: Will State: Illinois Community ID: Upland Station ID: M31NE-6 Plot ID: S2																																																																		
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.) _____						Remarks: Corn field with successful crop.																																																																		
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Site: Inaugural South Suburban Airport
 Locale: M31NE7
 Date: October 2, 2008 1 hours
 By: AECOM: T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\M31NE7.inv

FLORISTIC QUALITY DATA	Native	5	33.3%	Adventive	10	66.7%
5 NATIVE SPECIES	Tree	1	6.7%	Tree	1	6.7%
15 Total Species	Shrub	1	6.7%	Shrub	0	0.0%
1.6 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.5 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
3.6 NATIVE FQI	P-Forb	1	6.7%	P-Forb	1	6.7%
2.1 W/Adventives	B-Forb	0	0.0%	B-Forb	1	6.7%
-2.4 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	5	33.3%
0.5 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Fac. Wetland (-)	A-Grass	2	13.3%	A-Grass	2	13.3%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTII	4 FACU-	Ad A-Forb	VELVETLEAF
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
APOSIB	2 Apocynum sibiricum	-1 FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
HIBTRI	0 HIBISCUS TRIONUM	5 UPL	Ad A-Forb	FLOWER-OF-AN-HOUR
IPOHED	0 IPOMOEA HEDERACEA	0 FAC	Ad A-Forb	IVY-LEAVED MORNING GLORY
MELALB	0 MELILOTUS ALBA	3 FACU	Ad B-Forb	WHITE SWEET CLOVER
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLCAR	0 SOLANUM CAROLINENSE	4 FACU-	Ad P-Forb	HORSE NETTLE
XANSTR	0 XANTHIUM STRUMARIUM	0 FAC	Ad A-Forb	COCKLEBUR

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Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 10/02/08 County: Will State: Illinois Community ID: PEM Station ID: M31NE-7 Plot ID: S1																																																											
Do Normal Circumstances Exist On The Site? _____ Yes _____ <input checked="" type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? _____ <input checked="" type="checkbox"/> Yes _____ No (If yes, define below.)						Remarks: Soil core in large bare area in cornfield; likely tiled																																																											
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66%						Remarks: Hydrophytic vegetation is dominant though sparse																																																											
HYDROLOGY																																																																	
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available				Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks <input checked="" type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data _____ FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)																																																													
Field Observations: Depth of Surface Water: _____ NA (in.) Depth to Free Water: _____ NA (in.) Depth to Saturated Soil: _____ NA (in.)				Remarks: Wetland hydrology is present. NRCS review.																																																													
SOILS																																																																	
Map Unit Name: Ashkum silty clay loam						Series Drainage Class: Poorly drained																																																											
Taxonomy (Subgroup): Typic Endoaquolls						Field Observations Confirm Mapped Type? _____ <input checked="" type="checkbox"/> Yes _____ No																																																											
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Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.																																																											
0	13	A	10YR 2/1	NA NA	NA NA	silty clay loam; moist, friable																																																											
13	17	A2	10YR 2/1	10YR 3/2	common faint	silty clay loam; moist, friable																																																											
17	22	A3	10YR 2/1	NA NA	NA NA	silty clay; moist, friable																																																											
Hydric Soil Indicators ² :						Indicators for Problematic Hydric Soils ¹ :																																																											
_____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface <input checked="" type="checkbox"/> (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat			_____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions			_____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses <input checked="" type="checkbox"/> Other (Explain in Remarks)																																																											
Remarks: Hydric soils are present. Profile matches hydric Ashkum. Dark matrix masks redox.						¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																											
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Hydrophytic Vegetation Present? _____ <input checked="" type="checkbox"/> Yes _____ No				Hydric Soils Present? _____ <input checked="" type="checkbox"/> Yes _____ No																																																													
Wetland Hydrology Present? _____ <input checked="" type="checkbox"/> Yes _____ No				Is This Sampling Point Within A Wetland? _____ <input checked="" type="checkbox"/> Yes _____ No																																																													
Remarks: This plot is located in a wetland.																																																																	

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)									
Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. West						Date: 10/02/08 County: Will State: Illinois Community ID: Upland Station ID: M31NE-7 Plot ID: S2			
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: Soil core is in cornfield; vegetation parameter is altered			
VEGETATION									
Dominant Species (50/20 Rule)									
<u>Species Name</u>	<u>Ind.Status</u>	<u>Stratum</u>	<u>% Cover</u>		<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>	
1. <i>Chenopodium album</i>	FAC-	HERB	1		7. --	--	--	--	
2. <i>Setaria faberi</i>	FACU+	HERB	1		8. --	--	--	--	
3. <i>Panicum dichotomiflorum</i>	FACW-	HERB	1		9. --	--	--	--	
4. <i>Polygonum coccineum</i>	OBL	HERB	1		10. --	--	--	--	
5. <i>Zea mays</i>	UPL	HERB	70		11. --	--	--	--	
6. --	--	--	--		12. --	--	--	--	
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-):					0%				
Remarks: Hydrophytic vegetation is not dominant.									
HYDROLOGY									
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)				
Field Observations: Depth of Surface Water: _____ NA (in.) Depth to Free Water: _____ NA (in.) Depth to Saturated Soil: _____ NA (in.)					Remarks: Wetland hydrology is not present. Corn is successful; no evidence of ponding				
SOILS									
Map Unit Name: Ashkum silty clay loam					Series Drainage Class: Poorly drained				
Taxonomy (Subgroup): Typic Endoaquolls					Field Observations Confirm Mapped Type? _____ X Yes _____ No				
Profile Description:									
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.			
0	13	A1	10YR 2/1	NA NA	NA NA	silty clay loam; moist, friable			
13	20	A2	10YR 2/1	10YR 3/4	few faint	silty clay loam; moist, friable			
Hydric Soil Indicators ² :						Indicators for Problematic Hydric Soils ¹ :			
_____ (A1) Histosol			_____ (S4) Sandy Gleyed Matrix			_____ (A16) Coast Prairie Redox			
_____ (A2) Histic Epipedon			_____ (S5) Sandy Redox			_____ (F12) Iron-Manganese Masses			
_____ (A3) Black Histic			_____ (S6) Stripped Matrix			_____ Other (Explain in Remarks)			
_____ (A4) Hydrogen Sulfide			_____ (F1) Loamy Mucky Mineral			¹ Indicators of hydrophytic vegetation and wetland hydrology must be present.			
_____ (A5) Stratified Layers			_____ (F2) Loamy Gleyed Matrix						
_____ (A10) 2 cm Muck			_____ (F3) Depleted Matrix						
_____ (A11) Depleted Below Dark Surface			_____ (F6) Redox Dark Surface						
<input checked="" type="checkbox"/> (A12) Thick Dark Surface			_____ (F7) Depleted Dark Surface			² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)			
_____ (S1) Sandy Mucky Mineral			_____ (F8) Redox Depressions						
_____ (S3) 5 cm Mucky Peat or Peat									
Remarks: Hydric soils are present. Sample is similar to wetland soil core.									
WETLAND DETERMINATION									
Hydrophytic Vegetation Present? _____ Yes _____ X No					Hydric Soils Present? _____ X Yes _____ No				
Wetland Hydrology Present? _____ Yes _____ X No					Is This Sampling Point Within A Wetland? _____ Yes _____ X No				
Remarks: This plot is not located in wetland.									

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. West						Date: 10/22/08 County: Will State: Illinois Community ID: Upland Station ID: M31NE-8 Plot ID: NA																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Small tiled drainageway next to cornfield; no soil core taken																																																																		
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Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat						Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)																																																																		
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Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R.West						Date: 11/19/08 County: Will State: Illinois Community ID: Upland Station ID: M31NE-9 Plot ID: NA																																																				
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Plot at base of northfacing slope, 50' south of edge of cultivated field.																																																				
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Remarks: Hydric soils are present. Soil appears to be an Ashkum inclusion.																																																										
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DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)										
Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. West						Date: 11/19/08 County: Will State: Illinois Community ID: Upland Station ID: M31NE-10 Plot ID: NA				
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: Very shallow swale in corn field. Corn stubble shows no sign of washout or scour.				
VEGETATION										
Dominant Species (50/20 Rule)										
	<u>Species Name</u>	<u>Ind.Status</u>	<u>Stratum</u>	<u>% Cover</u>			<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>
1.	Zea mays	UPS	Herb	100			7.	--	--	--
2.	--	--	--	--			8.	--	--	--
3.	--	--	--	--			9.	--	--	--
4.	--	--	--	--			10.	--	--	--
5.	--	--	--	--			11.	--	--	--
6.	--	--	--	--			12.	--	--	--
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0%										
Remarks: Hydrophytic vegetation is not dominant. Corn crop successful										
HYDROLOGY										
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)					
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)										
Remarks: Wetland hydrology not present. NRCS ID; no sign of ponding or crop failure.										
SOILS										
Map Unit Name: Ashkum silty clay loam					Series Drainage Class: Poorly drained					
Taxonomy (Subgroup): Typic Endoaquolls					Field Observations Confirm Mapped Type? _____ * Yes _____ No					
Profile Description:										
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.				
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Remarks: Hydric soils are mapped. *Soil core not taken since crop is successful and there is no sign of wetland hydrology.										
WETLAND DETERMINATION										
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Remarks: This plot is not located in wetland. Hydric soils mapped. *Soil core not taken										

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																															
Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. West						Date: 11/19/08 County: Will State: Illinois Community ID: Upland Station ID: M31NE-11 Plot ID: NA																																																									
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: Successful corn crop. No soil core taken.																																																									
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Site: Inaugural South Suburban Airport
 Locale: M31NE12a & b
 Date: November 19, 2008 1 hours
 By: AECOM: T.Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\M31NE12a&b.inv

FLORISTIC QUALITY DATA	Native	11	55.0%	Adventive	9	45.0%
11 NATIVE SPECIES	Tree	4	20.0%	Tree	1	5.0%
20 Total Species	Shrub	3	15.0%	Shrub	0	0.0%
1.6 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.9 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
5.4 NATIVE FQI	P-Forb	3	15.0%	P-Forb	2	10.0%
4.0 W/Adventives	B-Forb	0	0.0%	B-Forb	1	5.0%
-0.5 NATIVE MEAN W	A-Forb	1	5.0%	A-Forb	0	0.0%
0.5 W/Adventives	P-Grass	0	0.0%	P-Grass	5	25.0%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
AGRREP	0 AGROPYRON REPENS	3 FACU	Ad P-Grass	QUACK GRASS
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
CRACRU	2 Crataegus crus-galli	0 FAC	Nt Tree	COCKSPUR HAWTHORN
CRAMOL	2 Crataegus mollis	4 FACU-	Nt Tree	DOWNY HAWTHORN
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi	0 [FAC]	Nt P-Forb	DUDLEY'S RUSH
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
RHUGLA	1 Rhus glabra	5 UPL	Nt Shrub	SMOOTH SUMAC
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
SOLCAR	0 SOLANUM CAROLINENSE	4 FACU-	Ad P-Forb	HORSE NETTLE
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 11/19/08 County: Will State: Illinois Community ID: PEM Station ID: M31NE-12 Plot ID: S1																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Tiled drainageway with culvert under I-57. Point west of roadway.																																																											
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Profile Description: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Top Depth</th> <th style="width: 5%;">Bottom Depth</th> <th style="width: 5%;">Horizon</th> <th style="width: 5%;">Matrix Color (Munsell Moist):</th> <th style="width: 5%;">Mottle Colors (Munsell Moist):</th> <th style="width: 5%;">Mottle Abundance/Contrast</th> <th style="width: 5%;">Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>10</td> <td>A1</td> <td>2.5Y 4/2</td> <td>NA NA</td> <td>NA NA</td> <td>Silty clay loam; moist, friable</td> </tr> <tr> <td>10</td> <td>15</td> <td>A2</td> <td>2.5Y 4/2</td> <td>2.5Y 2.5/1</td> <td>common distinct</td> <td>Silty clay loam; moist, friable</td> </tr> <tr> <td>15</td> <td>20</td> <td>B</td> <td>2.5Y 5/2</td> <td>10YR 5/6</td> <td>common distinct</td> <td>Silty clay loam; moist, friable; trace of gravel</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>										Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	0	10	A1	2.5Y 4/2	NA NA	NA NA	Silty clay loam; moist, friable	10	15	A2	2.5Y 4/2	2.5Y 2.5/1	common distinct	Silty clay loam; moist, friable	15	20	B	2.5Y 5/2	10YR 5/6	common distinct	Silty clay loam; moist, friable; trace of gravel																																			
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Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Old field at base of hill																																																											
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. Small area of reed canary grass amid solid stand of smooth brome.																																																																	
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<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available				Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test _____ Other (Explain in Remarks)																																																													
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)				Remarks: Wetland hydrology is present.																																																													
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Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																	
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Site: SSA Inaugural Delineation
 Locale: M31SW1
 Date: October 22, 2008 1 hours
 By: AECOM: T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\M31SW1.inv
 Notes: FQI includes M31SW1a-h and M31SW1k

FLORISTIC QUALITY DATA	Native	25	69.4%	Adventive	11	30.6%
25 NATIVE SPECIES	Tree	2	5.6%	Tree	1	2.8%
36 Total Species	Shrub	3	8.3%	Shrub	0	0.0%
1.8 NATIVE MEAN C	W-Vine	1	2.8%	W-Vine	1	2.8%
1.3 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
9.0 NATIVE FQI	P-Forb	9	25.0%	P-Forb	2	5.6%
7.5 W/Adventives	B-Forb	0	0.0%	B-Forb	2	5.6%
-2.3 NATIVE MEAN W	A-Forb	4	11.1%	A-Forb	1	2.8%
-1.0 W/Adventives	P-Grass	1	2.8%	P-Grass	2	5.6%
AVG: Fac. Wetland (-)	A-Grass	2	5.6%	A-Grass	2	5.6%
	P-Sedge	3	8.3%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
APOSIB	2 Apocynum sibiricum	-1 FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASCSYR	0 Asclepias syriaca	5 UPL	Nt P-Forb	COMMON MILKWEED
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
CXCRIS	4 Carex cristatella	-4 FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CXVULP	2 Carex vulpinoidea	-5 OBL	Nt P-Sedge	BROWN FOX SEDGE
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CONSEP	1 Convolvulus sepium	0 FAC	Nt P-Forb	HEDGE BINDWEED
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
GEULAT	2 Geum laciniatum trichocarpum	-3 FACW	Nt P-Forb	ROUGH AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
MELALB	0 MELILOTUS ALBA	3 FACU	Ad B-Forb	WHITE SWEET CLOVER
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLCOC	4 Polygonum coccineum	-5 OBL	Nt P-Forb	WATER HEARTSEASE
POLLAP	0 Polygonum lapathifolium	-4 FACW+	Nt A-Forb	HEARTSEASE
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RORPAF	4 Rorippa palustris fernaldiana	-5 OBL	Nt A-Forb	MARSH CRESS
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW

SAMCAN	1	<i>Sambucus canadensis</i>	-2	FACW-	Nt Shrub	ELDERBERRY
SCIATR	4	<i>Scirpus atrovirens</i>	-5	OBL	Nt P-Sedge	DARK GREEN RUSH
SETFAB	0	SETARIA FABERI	2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0	SETARIA GLAUCA	0	FAC	Ad A-Grass	YELLOW FOXTAIL
SOLCAR	0	SOLANUM CAROLINENSE	4	FACU-	Ad P-Forb	HORSE NETTLE
SOLDUL	0	SOLANUM DULCAMARA	0	FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1	<i>Solidago altissima</i>	3	FACU	Nt P-Forb	TALL GOLDENROD
SPAPEC	4	<i>Spartina pectinata</i>	-4	FACW+	Nt P-Grass	PRAIRIE CORD GRASS
VERHAS	4	<i>Verbena hastata</i>	-4	FACW+	Nt P-Forb	BLUE VERVAIN
VITRIP	2	<i>Vitis riparia</i>	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

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Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 10/22/08 County: Will State: Illinois Community ID: PEM Station ID: M31SW-1 Plot ID: S1																																																											
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100%						Remarks: Hydrophytic vegetation is dominant.																																																											
HYDROLOGY																																																																	
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available				Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks <input checked="" type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input checked="" type="checkbox"/> Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)																																																													
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)				Remarks: Wetland hydrology is present. Soil core is next to tiled stream channel. Channel open. NRCS Slide Review																																																													
SOILS																																																																	
Map Unit Name: Ashkum silty clay loam						Series Drainage Class: Poorly drained																																																											
Taxonomy (Subgroup): Typic Endoaquolls						Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																											
Profile Description:																																																																	
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.																																																											
0	18	A	10YR 2/1	10YR 5/6	common prominent	Clay loam; moist, friable																																																											
18	21	B	10YR 2/1	10YR 5/6	few prominent	Silty clay loam; moist, friable																																																											
Hydric Soil Indicators ² :																																																																	
_____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat			_____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix <input checked="" type="checkbox"/> (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions			Indicators for Problematic Hydric Soils ¹ : _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)																																																											
Remarks: Hydric soils are present.																																																																	
WETLAND DETERMINATION																																																																	
Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																											
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																											
Remarks: This plot is located in a wetland.																																																																	

DATA FORM												
ROUTINE WETLAND DETERMINATION												
(1987 COE Wetlands Delineation Manual)												
Project/Site: South Suburban Airport					Date: 10/22/08							
Applicant/Owner: Illinois Department of Transportation					County: Will							
Investigator #1: AECOM; T.Radke #2: R. West					State: Illinois							
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Community ID: Upland							
Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Station ID: M31SW-1							
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Plot ID: S2							
(If yes, define below.)												
Remarks: Upland point is >12" higher than channel and wet point.												
VEGETATION												
Dominant Species (50/20 Rule)												
<i>Species Name</i>				<i>Ind. Status</i>	<i>Stratum</i>	<i>% Cover</i>	<i>Species Name</i>			<i>Ind. Status</i>	<i>Stratum</i>	<i>% Cover</i>
1.	<i>Bromus inermis</i>			UPL	HERB	95	7.	--			--	--
2.	<i>Cirsium arvense</i>			FACU	HERB	5	8.	--			--	--
3.	<i>Sambucus canadensis</i>			FACW-	SHRUB	15	9.	--			--	--
4.						--	10.	--			--	--
5.	--			--	--	--	11.	--			--	--
6.	--			--	--	--	12.	--			--	--
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-):							50%					
Remarks: Hydrophytic vegetation is not dominant.												
HYDROLOGY												
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos Other (Describe in Remarks) No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)							
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)												
Remarks: Wetland hydrology is not present.												
NRCS Slide Review												
SOILS												
Map Unit Name: Beecher silt loam					Series Drainage Class: Somewhat poorly drained							
Taxonomy (Subgroup): Udolic Epiaqualfs					Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Profile Description:												
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):		Mottle Colors (Munsell Moist):		Mottle Abundance/Contrast		Texture, moisture, consistency, organic material, and other soil characteristics.			
0	11	A	10YR	2/2	NA	NA	NA	NA	Silty clay loam; moist, friable			
11	21	A2	10YR	4/3	10YR	2/2	common	prominent	Silty clay loam; moist, friable			
Hydric Soil Indicators ² :										Indicators for Problematic Hydric Soils ¹ :		
<input type="checkbox"/> (A1) Histosol					<input type="checkbox"/> (S4) Sandy Gleyed Matrix					<input type="checkbox"/> (A16) Coast Prairie Redox		
<input type="checkbox"/> (A2) Histic Epipedon					<input type="checkbox"/> (S5) Sandy Redox					<input type="checkbox"/> (F12) Iron-Manganese Masses		
<input type="checkbox"/> (A3) Black Histic					<input type="checkbox"/> (S6) Stripped Matrix					<input type="checkbox"/> Other (Explain in Remarks)		
<input type="checkbox"/> (A4) Hydrogen Sulfide					<input type="checkbox"/> (F1) Loamy Mucky Mineral							
<input type="checkbox"/> (A5) Stratified Layers					<input type="checkbox"/> (F2) Loamy Gleyed Matrix							
<input type="checkbox"/> (A10) 2 cm Muck					<input type="checkbox"/> (F3) Depleted Matrix							
<input checked="" type="checkbox"/> (A11) Depleted Below Dark Surface					<input type="checkbox"/> (F6) Redox Dark Surface							
<input type="checkbox"/> (A12) Thick Dark Surface					<input type="checkbox"/> (F7) Depleted Dark Surface							
<input type="checkbox"/> (S1) Sandy Mucky Mineral					<input type="checkbox"/> (F8) Redox Depressions							
<input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat												
Remarks: Hydric soils are present.												
WETLAND DETERMINATION												
Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Remarks: This plot is not located in wetland.												

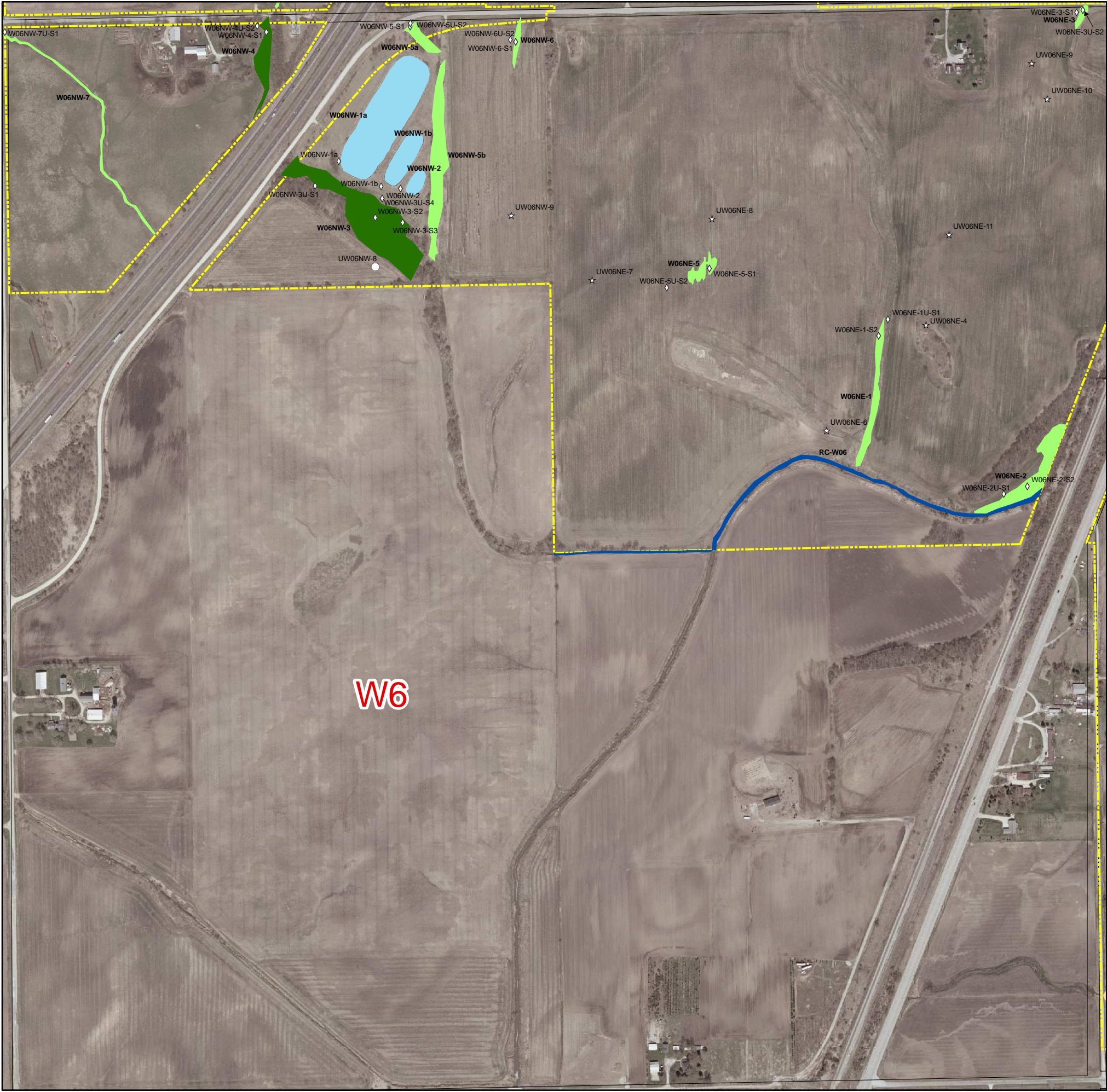
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Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. West						Date: 10/22/08 County: Will State: Illinois Community ID: Upland Station ID: M31SW-2 Plot ID: NA																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, define below.)						Remarks: Long tiled stream/drainageway extends n/s across entire section. This portion upland.																																																																		
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<input type="checkbox"/> (A1) Histosol <input type="checkbox"/> (A2) Histic Epipedon <input type="checkbox"/> (A3) Black Histic <input type="checkbox"/> (A4) Hydrogen Sulfide <input type="checkbox"/> (A5) Stratified Layers <input type="checkbox"/> (A10) 2 cm Muck <input type="checkbox"/> (A11) Depleted Below Dark Surface <input type="checkbox"/> (A12) Thick Dark Surface <input type="checkbox"/> (S1) Sandy Mucky Mineral <input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat	<input type="checkbox"/> (S4) Sandy Gleyed Matrix <input type="checkbox"/> (S5) Sandy Redox <input type="checkbox"/> (S6) Stripped Matrix <input type="checkbox"/> (F1) Loamy Mucky Mineral <input type="checkbox"/> (F2) Loamy Gleyed Matrix <input type="checkbox"/> (F3) Depleted Matrix <input type="checkbox"/> (F6) Redox Dark Surface <input type="checkbox"/> (F7) Depleted Dark Surface <input type="checkbox"/> (F8) Redox Depressions																																																																							
Remarks: Hydric soils are mapped. *Soil core not taken, because wetland vegetation and hydrology are absent.																																																																								
WETLAND DETERMINATION																																																																								
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Remarks: Plot not in a wetland. Drainageway mapped hydric soil. *No hydrophytic vegetation or wetland hydrology present, so no core collected.																																																																								

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. West						Date: 10/22/08 County: Will State: Illinois Community ID: Upland Station ID: M31SW-3 Plot ID: NA																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: NRCS ID area at edge of cornfield next to I-57. Drainage patterns in field to west indicate probable tile location here.																																																																		
VEGETATION Dominant Species (50/20 Rule)																																																																								
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Hydric Soil Indicators ² : <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> (A1) Histosol <input type="checkbox"/> (A2) Histic Epipedon <input type="checkbox"/> (A3) Black Histic <input type="checkbox"/> (A4) Hydrogen Sulfide <input type="checkbox"/> (A5) Stratified Layers <input type="checkbox"/> (A10) 2 cm Muck <input type="checkbox"/> (A11) Depleted Below Dark Surface <input type="checkbox"/> (A12) Thick Dark Surface <input type="checkbox"/> (S1) Sandy Mucky Mineral <input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat </div> <div style="width: 45%;"> <input type="checkbox"/> (S4) Sandy Gleyed Matrix <input type="checkbox"/> (S5) Sandy Redox <input type="checkbox"/> (S6) Stripped Matrix <input type="checkbox"/> (F1) Loamy Mucky Mineral <input type="checkbox"/> (F2) Loamy Gleyed Matrix <input type="checkbox"/> (F3) Depleted Matrix <input type="checkbox"/> (F6) Redox Dark Surface <input type="checkbox"/> (F7) Depleted Dark Surface <input type="checkbox"/> (F8) Redox Depressions </div> </div>						Indicators for Problematic Hydric Soils ¹ : <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> (A16) Coast Prairie Redox <input type="checkbox"/> (F12) Iron-Manganese Masses <input type="checkbox"/> Other (Explain in Remarks) </div> <div style="width: 45%;"> ¹Indicators of hydrophytic vegetation and wetland hydrology must be present. ²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006) </div> </div>																																																																		
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Remarks: Hydric soils mapped. Probable tile location. *Wetland vegetation and hydrology not present, so not soil core collected.																																																																								

Appendix E Section Will 06

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
W06NE-1-S2	20	Yes	7.0	
W06NE-1U-S1	21	No		
W06NE-2-S2	34	Yes	0.5	
W06NE-2U-S1	27	Yes		
W06NE-3-S1	21	Yes	10.0	
W06NE-3U-S2	23	No		
UW06NE-4	NA	NA	NA	Photo S
W06NE-5-S1	19	Yes	4.0	
W06NE-5U-S2	21	No		
UW06NE-6	NA	NA	NA	Photo W
UW06NE-7	NA	NA	NA	Photo SW
UW06NE-8	NA	NA	NA	
UW06NE-9	NA	NA	NA	
UW06NE-10	NA	NA	NA	
UW06NE-11	NA	NA	NA	
W06NW-1a	NA	NA	NA	Photo of treatment pond, no soil core
W06NW-1b	NA	NA	NA	Photo of treatment pond, no soil core
W06NW-2	NA	NA	NA	Photo of treatment pond, no soil core
W06NW-3U-S1	24	No	12.2	
W06NW-3-S2	23	Yes		Photo SE
W06NW-3-S3	21	Yes		Photo SW
W06NW-3U-S4	22	No		Photo E
W06NW-4-S1	22	Yes	5.0	Photo S
W06NW-4U-S2	23	No		Photo S
W06NW-5-S1	21	Yes	5.9	Photo SE
W06NW-5U-S2	21	No		Photo SE
W06NW-6-S1	20	Yes	5.7	
W06NW-6U-S2	20	Yes		
W06NW-7-S2	NA	NA	NA	Could not fully access field, FQI not possible
W06NW-7U-S1	20	No	NA	Photo SE
UW06NW-8	22	No	NA	Photo NW
UW06NW-9	NA	NA	NA	Photo N
RC-W06	NA	NA	NA	No field form, not visited

NA = not applicable



Legend

Wetland Type

- PEM
- PSS
- PFO
- PEM/PFO
- PSS/PEM
- PFO/PSS
- POW
- Stream
- Wetland Complex

2008 Study Boundary

Sections

- Upland Soil Cores
- Upland Photo Locations
- Wetland Soil Cores

N

EXHIBIT E-1B

Will Township Section 6

2008 - 2009 FIELD INVESTIGATION RESULTS

South Suburban Airport

Illinois Department of Transportation
Division of Aeronautics

AECOM

0 250 500 1,000 1,500 Feet

Site: Inaugural South Suburban Airport
 Locale: W06NE1
 Date: August 27, 2008 30 minutes
 By: AECOM: T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NE1.inv

FLORISTIC QUALITY DATA	Native	9	90.0%	Adventive	1	10.0%
9 NATIVE SPECIES	Tree	1	10.0%	Tree	0	0.0%
10 Total Species	Shrub	2	20.0%	Shrub	0	0.0%
2.3 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.1 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
7.0 NATIVE FQI	P-Forb	5	50.0%	P-Forb	0	0.0%
6.6 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.7 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-1.9 W/Adventives	P-Grass	0	0.0%	P-Grass	1	10.0%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	1	10.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
APOSIB	2 Apocynum sibiricum	-1 FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASCSYR	0 Asclepias syriaca	5 UPL	Nt P-Forb	COMMON MILKWEED
CONSEP	1 Convolvulus sepium	0 FAC	Nt P-Forb	HEDGE BINDWEED
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
EQUARV	0 Equisetum arvense	0 FAC	Cryptogam	HORSETAIL
GALOBT	5 Galium obtusum	-4 FACW+	Nt P-Forb	WILD MADDER
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robyn West	Date: 08/27/08 County: Will State: Illinois Community ID: PEM Station ID: W06NE-1 Plot ID: S2
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Tiled grassed drainageway.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Carex cristatella</i>	FACW+	HERB	30		7. --	--	--	--
2. <i>Asclepias syriaca</i>	UPL	HERB	5		8. --	--	--	--
3. <i>Setaria glauca</i>	FAC	HERB	30		9. --	--	--	--
4. <i>Convolvulus sepium</i>	FAC	HERB	10		10. --	--	--	--
5. <i>Festuca elatior</i>	UPL	HERB	20		11. --	--	--	--
6. --	--	--	--		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **66%**

Remarks: **Hydrophytic vegetation is dominant.**

Hydrophytic vegetation is dominant only in the very center of the drainageway.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input checked="" type="checkbox"/> Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is present. Tiled drainageway**

NRCS Slide Review

SOILS

Map Unit Name: Ashkum silty clay loam	Series Drainage Class: Poorly drained
Taxonomy (Subgroup): Typic Endoaquolls	Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Profile Description:

Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.
0	8	A	10YR 3/1	NA	NA	oxidized rhizospheres silty clay loam, moist, blocky
8	20	B	10YR 4/1	10YR 5/6	common	clay, moist, very firm

Hydric Soil Indicators²:

- ☐ (A1) Histosol
☐ (A2) Histic Epipedon
☐ (A3) Black Histic
☐ (A4) Hydrogen Sulfide
☐ (A5) Stratified Layers
☐ (A10) 2 cm Muck
☒ (A11) Depleted Below Dark Surface
☐ (A12) Thick Dark Surface
☐ (S1) Sandy Mucky Mineral
☐ (S3) 5 cm Mucky Peat or Peat

- ☐ (S4) Sandy Gleyed Matrix
☐ (S5) Sandy Redox
☐ (S6) Stripped Matrix
☐ (F1) Loamy Mucky Mineral
☐ (F2) Loamy Gleyed Matrix
☐ (F3) Depleted Matrix
☐ (F6) Redox Dark Surface
☐ (F7) Depleted Dark Surface
☐ (F8) Redox Depressions

Indicators for Problematic Hydric Soils¹:

- ☐ (A16) Coast Prairie Redox
☐ (F12) Iron-Manganese Masses
☐ Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Remarks: **This plot is located in a wetland.**

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robyn West						Date: 08/27/08 County: Will State: Illinois Community ID: Upland Station ID: W06NE-1 Plot ID: S1																																																											
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0	8	A	10YR 4/2	NA NA	NA NA	silty loam w/ sand, dry, friable																																																											
8	21	A2	10YR 4/2 - 4/4	NA NA	NA NA	clay, moist, friable																																																											
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Site: Inaugural South Suburban Airport
 Locale: W06NE2
 Date: August 29, 2008 30 minutes
 By: AECOM: T. Radke; M. Hildreth
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NE2.inv

FLORISTIC QUALITY DATA	Native	4	50.0%	Adventive	4	50.0%
4 NATIVE SPECIES	Tree	1	12.5%	Tree	0	0.0%
8 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.3 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.1 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.5 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.4 W/Adventives	B-Forb	0	0.0%	B-Forb	1	12.5%
-0.7 NATIVE MEAN W	A-Forb	3	37.5%	A-Forb	1	12.5%
0.1 W/Adventives	P-Grass	0	0.0%	P-Grass	1	12.5%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	1	12.5%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
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_____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat						¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																											
Remarks: Hydric soils are not present. Soil profile did not meet depth criteria for F6 or F8.																																																																	
WETLAND DETERMINATION																																																																	
Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																												
Remarks: This plot is not located in wetland.																																																																	

Site: Inaugural South Suburban Airport
 Locale: W06NE3
 Date: August 26, 2008 30 hours
 By: AECOM; T. Radke; R. Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NE3.inv

FLORISTIC QUALITY DATA	Native	9	64.3%	Adventive	5	35.7%
9 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
14 Total Species	Shrub	2	14.3%	Shrub	0	0.0%
3.3 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.1 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
10.0 NATIVE FQI	P-Forb	4	28.6%	P-Forb	1	7.1%
8.0 W/Adventives	B-Forb	0	0.0%	B-Forb	1	7.1%
-2.6 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-1.7 W/Adventives	P-Grass	1	7.1%	P-Grass	3	21.4%
AVG: Fac. Wetland	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	2	14.3%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SCIFLU	4 Scirpus fluviatilis	-5 OBL	Nt P-Sedge	RIVER BULRUSH
SILTER	5 Silphium terebinthinaceum	3 FACU	Nt P-Forb	PRAIRIE DOCK
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SPAPEC	4 Spartina pectinata	-4 FACW+	Nt P-Grass	PRAIRIE CORD GRASS

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robert Page						Date: 08/26/08 County: Will State: Illinois Community ID: PEM Station ID: W06NE-3 Plot ID: S1																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Tiled drainageway is wet meadow with open channel in middle																																																											
VEGETATION																																																																	
Dominant Species (50/20 Rule)																																																																	
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12. --	--	--	--																																																														
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100%						Remarks: Hydrophytic vegetation is dominant. The vegetation community is strongly hydrophytic																																																											
HYDROLOGY																																																																	
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test _____ Other (Explain in Remarks)																																																												
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)																																																																	
Remarks: Wetland hydrology is present. Narrow open channel in center of wetland area																																																																	
SOILS																																																																	
Map Unit Name: Ashkum silty clay loam						Series Drainage Class: Poorly drained																																																											
Taxonomy (Subgroup): Typic Endoaquolls						Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																											
Profile Description:																																																																	
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.																																																											
0	10	A	10YR 3/1	10YR 5/6	few faint	damp, friable, silty clay loam																																																											
10	21	A2	10YR 3/1	10YR Gley1 2.5/N 2/1	many distinct	moist, friable silty clay																																																											
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Remarks: Hydric soils are present. While F6 depth and density/contrast criteria are not strictly met, the dark matrix color likely masks the redox features																																																																	
WETLAND DETERMINATION																																																																	
Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																												
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																												
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Investigator #1: Teri Radke #2: Robert Page						State: Illinois																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: Upland																																																																		
Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Station ID: W06NE-3																																																																		
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: S2																																																																		
Remarks: Soil core is at edge of drainageway photos 627-629																																																																								
VEGETATION																																																																								
Dominant Species (50/20 Rule)																																																																								
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Remarks: Wetland hydrology is present.																																																																								
SOILS																																																																								
Map Unit Name: Markham silt loam					Series Drainage Class: Moderately well-drained																																																																			
Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs					Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																			
Profile Description:																																																																								
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8	12	A2	10YR 4/2	10YR 5/6	common faint	small gravel Moist, rooty, silty clay																																																																		
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Remarks: Hydric soils are not present. The matrix color of the top layers do not meet A11, A12 or F3 criteria Mottle percent increases w/depth.																																																																								
WETLAND DETERMINATION																																																																								
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Remarks: Grassy, shrubby upland on a slope between two cultivated fields One photo taken																																																																					
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Remarks: Hydric soils are not mapped. *Wetland vegetation and hydrology are not present, so no soil core collected.																																																																					
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Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Hydric Soils Present? No soil core taken* <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																
Remarks: This plot is not located in a wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.																																																																					

Site: Inaugural South Suburban Airport
 Locale: W06NE5
 Date: August 27, 2008 30 minutes
 By: AECOM: T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NE5.inv

FLORISTIC QUALITY DATA	Native	1	25.0%	Adventive	3	75.0%
1 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
4 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
4.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
4.0 NATIVE FQI	P-Forb	1	25.0%	P-Forb	0	0.0%
2.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-5.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	3	75.0%
1.3 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Obl. Wetland	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
GLYNMX	0 GLYCINE MAX	5 UPL	Ad A-Forb	SOY BEAN
POLCOC	4 Polygonum coccineum	-5 OBL	Nt P-Forb	WATER HEARTSEASE
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robyn West						Date: 08/27/08 County: Will State: Illinois Community ID: FW Station ID: W06NE-5 Plot ID: S1																																																											
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)																																																																	
Remarks: Sparsely vegetated area in soybean field with evidence of inundation and crop failure photos 0638, 0639																																																																	
VEGETATION																																																																	
Dominant Species (50/20 Rule)																																																																	
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50%																																																																	
Remarks: Hydrophytic vegetation is not dominant. Circumstances are not normal. It is expected that wetland vegetation would be dominant under normal circumstances																																																																	
HYDROLOGY																																																																	
X Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge X Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available				Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks X Drift Lines X Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test _____ Other (Explain in Remarks)																																																													
Field Observations: Depth of Surface Water: _____ NA (in.) Depth to Free Water: _____ NA (in.) Depth to Saturated Soil: _____ NA (in.)																																																																	
Remarks: Wetland hydrology is present. Area is mostly bare due to failed crop and signs of extended ponding such as soil cracks .																																																																	
SOILS																																																																	
Map Unit Name: Peotone silty clay loam Taxonomy (Subgroup): Cumulic Vertic Endoaquolls						Series Drainage Class: Very poorly drained Field Observations Confirm Mapped Type? _____ X Yes _____ No																																																											
Profile Description:																																																																	
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.																																																											
0	4	AP	10YR 3/1	NA NA	NA NA	silty loam, moist, blocky																																																											
4	12	A1	10YR 2/1	10YR 5/6	few faint	silty clay loam, moist, firm																																																											
12	19	A2	10YR 2/1	10YR 5/6	common faint	silty clay loam, moist, firm																																																											
Hydric Soil Indicators ² :																																																																	
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² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																																	
Remarks: Soil profile does not quite meet hydric criterion for contrast/abundance, but dark matrix hides redox. Hydrophytic vegetation and wetland hydrology are present.																																																																	
WETLAND DETERMINATION																																																																	
Hydrophytic Vegetation Present? _____ Yes _____ X No						Hydric Soils Present? _____ X Yes _____ No																																																											
Wetland Hydrology Present? _____ X Yes _____ No						Is This Sampling Point Within A Wetland? _____ X Yes _____ No																																																											
Remarks: This plot is within a wetland Normal circumstances are not present due to cultivation. Soybeans are stressed and wet veg is present. Under normal circumstances, it is expected that wetland vegetation would be dominant.																																																																	

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																															
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robyn West						Date: 08/27/08 County: Will State: Illinois Community ID: Upland Station ID: W06NE-5 Plot ID: S2																																																									
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: Successful crop in soybean field Plot is located uphill of wetland plot.																																																									
VEGETATION Dominant Species (50/20 Rule)																																																															
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4	9	A1	10YR 4/3	NA NA	NA NA	transition layer																																																									
9	11	A2	10YR 4/3	NA NA	NA NA	silty clay loam, dry, friable																																																									
11	21	B	10YR 4/3	10YR 5/6	common distinct	bright concretions 10YR 5/8																																																									
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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Matt Hildreth						Date: 08/29/08 County: Will State: Illinois Community ID: Upland Station ID: W06NE-6 Plot ID: NA																																																									
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Grassed waterway in cultivated field upland-grassed waterway. photo 646 facing w																																																									
VEGETATION Dominant Species (50/20 Rule)																																																															
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. One or two wet species amid dominant upl species, such as small patches of <i>Helianthus grosseserratus</i> .																																																															
HYDROLOGY																																																															
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)																																																										
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)					Remarks: Wetland hydrology is not present. Tiled grassed waterway between cultivated fields NRCS Slide Review																																																										
SOILS																																																															
Map Unit Name: Pella/Ozaukee boundary Series Drainage Class: Poorly drained/Moderately well drained Taxonomy (Subgroup): Typic Endoaquolls/Oxyaquic Haplu Field Observations Confirm Mapped Type? No soil core taken* Yes <input type="checkbox"/> No <input type="checkbox"/>																																																															
Profile Description:																																																															
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Remarks: Hydric soil/non-hydric boundary. *Wetland vegetation and hydrology are not present, so no soil core collected.																																																															
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DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																															
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robyn West						Date: 08/27/08 County: Will State: Illinois Community ID: Upland Station ID: W06NE-7 Plot ID: NA																																																									
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: Soybean field Photo 645																																																									
VEGETATION Dominant Species (50/20 Rule)																																																															
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0%						Remarks: Hydrophytic vegetation is not present. Successful soybean crop with no signs of failure and no other species present.																																																									
HYDROLOGY																																																															
X Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge X Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: X None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)																																																										
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SOILS																																																															
Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained					Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? No soil core taken* Yes _____ No _____																																																										
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DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)									
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robyn West						Date: 08/27/08 County: Will State: Illinois Community ID: Upland Station ID: W06NE-8 Plot ID: NA			
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)									
Remarks: Soybean field with successful crop									
VEGETATION									
Dominant Species (50/20 Rule)									
<u>Species Name</u> <u>Ind. Status</u> <u>Stratum</u> <u>% Cover</u>				<u>Species Name</u> <u>Ind. Status</u> <u>Stratum</u> <u>% Cover</u>					
1. <i>Glycine max</i> UPL HERB 100				7. _____					
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5. -- -- -- --				11. -- -- -- --					
6. -- -- -- --				12. -- -- -- --					
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0%									
Remarks: Hydrophytic vegetation is not dominant. Successful soybean crop on high ground with no other vegetation present.									
HYDROLOGY									
X Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge X Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: X None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)				
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)									
Remarks: Wetland hydrology is not present. NRCS Slide Review									
SOILS									
Map Unit Name: Ashkum silty clay loam					Series Drainage Class: Poorly drained				
Taxonomy (Subgroup): Typic Endoaquolls					Field Observations Confirm Mapped Type? No soil core taken* _____ Yes _____ No				
Profile Description:									
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.			
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Remarks: Hydric soils are mapped *Wetland vegetation and hydrology are not present, so no soil core collected.									
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Hydrophytic Vegetation Present? _____ Yes _____ X No					Hydric Soils Present? No soil core taken* _____ Yes _____ No				
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Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.									

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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robert Page						Date: 08/26/08 County: Will State: Illinois Community ID: Upland Station ID: W06NE-9 Plot ID: NA																																																											
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Remarks: Corn field with successful crop																																																																	
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SOILS																																																																	
Map Unit Name: Markham silt loam Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs					Series Drainage Class: Moderately well-drained Field Observations Confirm Mapped Type? No soil core taken* Yes _____ No _____																																																												
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Remarks: Non-hydric soils are mapped. *Wetland vegetation and hydrology are not present, so no soil core collected.						¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																											
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DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)										
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robert Page						Date: 08/26/08 County: Will State: Illinois Community ID: Upland Station ID: W06NE-10 Plot ID: NA				
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: Corn field with successful crop.				
VEGETATION										
Dominant Species (50/20 Rule)										
	<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>			<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>
1.	Zea mays	UPL	HERB	100			7.			
2.	--	--	--	--			8.			
3.	--	--	--	--			9.			
4.	--	--	--	--			10.	--	--	--
5.	--	--	--	--			11.	--	--	--
6.	--	--	--	--			12.	--	--	--
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0%										
Remarks: Hydrophytic vegetation is not present. Successful corn crop on a rise with no other vegetation present.										
HYDROLOGY										
X Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge X Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: X None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)					
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)					Remarks: Wetland hydrology is not present. NRCS Slide Review					
SOILS										
Map Unit Name: Ozaukee silt loam					Series Drainage Class: Moderately well drained					
Taxonomy (Subgroup): Oxyaquic Hapludalfs					Field Observations Confirm Mapped Type? No soil core taken* _____ Yes _____ No					
Profile Description:										
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.				
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¹ Indicators of hydrophytic vegetation and wetland hydrology must be present.										
² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)										
Remarks: Upland soils mapped. *Wetland vegetation and hydrology are not present, so no soil core collected.										
WETLAND DETERMINATION										
Hydrophytic Vegetation Present? _____ Yes _____ X No					Hydric Soils Present? No soil core taken* _____ Yes _____ No					
Wetland Hydrology Present? _____ Yes _____ X No					Is This Sampling Point Within A Wetland? _____ Yes _____ X No					
Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.										

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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robert Page						Date: 08/26/08 County: Will State: Illinois Community ID: Upland Station ID: W06NE-11 Plot ID: NA																																																									
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: Corn field Successful corn crop with no other vegetation present.																																																									
VEGETATION Dominant Species (50/20 Rule)																																																															
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Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained						Field Observations Confirm Mapped Type? No soil core taken* Yes _____ No _____																																																									
Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs																																																															
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Remarks: Naturalized, excavated pond for tollway(I-57) rest-area wastewater treatment. This pond is the largest in a series of three.																																																																								
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Remarks: Boundary of two mapped units--upland Ozaukee silt loam and hydric Ashkum silty clay loam. *Soils under continuous inundation. Pond is one in series of three.																																																																								
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Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)																																																																								
Remarks: Second in series of three naturalized, excavated ponds for tollway (I-57) wastewater treatment.																																																																								
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 Locale: W06NW3
 Date: September 23, 2008 1 hours
 By: AECOM; S. Johnson; T. Schultz
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NW3.inv

FLORISTIC QUALITY DATA	Native	21	75.0%	Adventive	7	25.0%
21 NATIVE SPECIES	Tree	4	14.3%	Tree	1	3.6%
28 Total Species	Shrub	1	3.6%	Shrub	2	7.1%
2.7 NATIVE MEAN C	W-Vine	2	7.1%	W-Vine	0	0.0%
2.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
12.2 NATIVE FQI	P-Forb	8	28.6%	P-Forb	1	3.6%
10.6 W/Adventives	B-Forb	1	3.6%	B-Forb	0	0.0%
-0.5 NATIVE MEAN W	A-Forb	4	14.3%	A-Forb	1	3.6%
0.1 W/Adventives	P-Grass	1	3.6%	P-Grass	2	7.1%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
ACESAU	3 Acer saccharum	3 FACU	Nt Tree	SUGAR MAPLE
APOCAN	4 Apocynum cannabinum	0 FAC	Nt P-Forb	INDIAN HEMP
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
EUPRUG	4 Eupatorium rugosum	5 UPL	Nt P-Forb	WHITE SNAKEROOT
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
GLEHED	0 GLECHOMA HEDERACEA	3 FACU	Ad P-Forb	CREEPING CHARLIE
GLYSTR	4 Glyceria striata	-3 [FACW]	Nt P-Grass	FOWL MANNA GRASS
HACVIR	0 Hackelia virginiana	1 FAC-	Nt B-Forb	STICKSEED
IMPCAP	3 Impatiens capensis	-3 FACW	Nt A-Forb	ORANGE JEWELWEED
ISOBIT	8 Isopyrum biternatum	5 UPL	Nt P-Forb	FALSE RUE ANEMONE
LONTAT	0 LONICERA TATARICA	5 [UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLHYS	7 Polygonum hydropiperoides	-5 OBL	Nt P-Forb	MILD WATER PEPPER
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
RHACAT	0 RHAMNUS CATHARTICA	3 FACU	Ad Shrub	COMMON BUCKTHORN
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD

VIOSOR	3 Viola sororia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/24/08 County: Will State: Illinois Community ID: PFO; Stream Station ID: W06NW-3 Plot ID: S2
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Wooded wetland area is associated with an unnamed tributary to Rock Creek.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Acer saccharum</i>	FACU	TREE	15		7. <i>Prunus serotina</i>	FACU	TREE	3
2. <i>Acer saccharinum</i>	FACW	TREE	5		8. <i>Geum canadense</i>	FAC	HERB	20
3. <i>Fraxinus pennsylvanica</i>	FACW	TREE	25		9. <i>Toxicodendron radicans</i>	FAC+	SHRUB	5
4. <i>Salix fragilis</i>	FAC+	TREE	3		10. <i>Rubus occidentalis</i>	UPL	SHRUB	5
5. <i>Acer negundo</i>	FACW-	SHRUB	10		11. <i>Viola sororia</i>	FAC-	HERB	5
6. <i>Rosa multiflora</i>	FACU	SHRUB	15		12. <i>Polygonum persicaria</i>	FACW	HERB	3

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **60%**

Remarks: **Hydrophytic vegetation is dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches <input checked="" type="checkbox"/> Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
---	--

Remarks: **Wetland hydrology is present.**

NRCS Slide Review

SOILS

Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes				Series Drainage Class: Poorly drained			
Taxonomy (Subgroup): Typic Endoaquolls				Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Profile Description:							
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	
0	18	Ap	10YR 3/2	NA NA	NA NA	silt loam, moist, friable	
18	23	A	10YR 3/1	NA NA	NA NA	silt loam, moist, friable	

Hydric Soil Indicators2: _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat	Indicators for Problematic Hydric Soils1: _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses <input checked="" type="checkbox"/> Other (Explain in Remarks) 1Indicators of hydrophytic vegetation and wetland hydrology must be present. 2Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)
---	--

Remarks: **Hydric soils are present. Sediment deposition layer on floodplain terrace.**

Plot has dominance of wetland vegetation and strong hydrology indicators.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Remarks: **This plot is located in wetland.**

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/24/08 County: Will State: Illinois Community ID: PFO; Stream Station ID: W06NW-3 Plot ID: S3
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Wooded wetland area is associated with an unnamed tributary to Rock Creek.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Impatiens capensis</i>	FACW	HERB	10	7. <i>Phytolacca americana</i>	FAC-	HERB	3
2. <i>Phalaris arundinacea</i>	FACW+	HERB	40	8. <i>Hackelia virginiana</i>	FAC-	HERB	3
3. <i>Solanum dulcamara</i>	FAC	HERB	5	9. <i>Bromus inermis</i>	UPL	HERB	30
4. <i>Cirsium arvense</i>	FACU	HERB	3	10. --	--	--	--
5. <i>Fraxinus pennsylvanica</i>	FACW	TREE	40	11. --	--	--	--
6. <i>Polygonum hydropiperoides</i>	OBL	HERB	5	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **67%**

Remarks: **Hydrophytic vegetation is dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches <input checked="" type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test _____ Other (Explain in Remarks)
---	--

Remarks: **Wetland hydrology is present.**

NRCS Slide Review

SOILS

Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained									
Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
Profile Description:									
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.			
Depth	Depth								
0	4	Ap	10YR 3/2	NA	NA	NA	NA	silty clay loam, moist, friable	
4	21	Ap	10YR 3/1	10YR	5/6	few	distinct	silty clay loam, moist, friable	

Hydric Soil Indicators²:

- _____ (A1) Histosol
- _____ (A2) Histic Epipedon
- _____ (A3) Black Histic
- _____ (A4) Hydrogen Sulfide
- _____ (A5) Stratified Layers
- _____ (A10) 2 cm Muck
- _____ (A11) Depleted Below Dark Surface
- _____ (A12) Thick Dark Surface
- _____ (S1) Sandy Mucky Mineral
- _____ (S3) 5 cm Mucky Peat or Peat

- _____ (S4) Sandy Gleyed Matrix
- _____ (S5) Sandy Redox
- _____ (S6) Stripped Matrix
- _____ (F1) Loamy Mucky Mineral
- _____ (F2) Loamy Gleyed Matrix
- _____ (F3) Depleted Matrix
- _____ (F6) Redox Dark Surface
- _____ (F7) Depleted Dark Surface
- _____ (F8) Redox Depressions

Indicators for Problematic Hydric Soils¹:

- _____ (A16) Coast Prairie Redox
- _____ (F12) Iron-Manganese Masses
- ☒ Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are present. Sediment deposition layer on floodplain terrace.**

Plot has dominance of wetland vegetation and multiple hydrology indicators.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Remarks: **This plot is located in wetland.**

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/24/08 County: Will State: Illinois Community ID: Upland Station ID: W06NW-3 Plot ID: S4
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Area is associated with an unnamed tributary to Rock Creek.**
 Area may have experienced grading during the construction of detention basins nearby.

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Bromus inermis</i>	UPL	HERB	60	7. --	--	--	--
2. <i>Trifolium pratense</i>	FACU+	HERB	10	8. --	--	--	--
3. <i>Plantago lanceolata</i>	FAC	HERB	10	9. --	--	--	--
4. <i>Fraxinus pennsylvanica</i>	FACW	TREE	10	10. --	--	--	--
5. --	--	--	--	11. --	--	--	--
6. --	--	--	--	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **50%**

Remarks: **Hydrophytic vegetation is not dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
---	--

Remarks: **Wetland hydrology is not present.**
 NRCS Slide Review

SOILS

Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes				Series Drainage Class: Poorly drained				
Taxonomy (Subgroup): Typic Endoaquolls				Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:								
Top	Bottom		Matrix Color	Mottle Colors	Mottle	Texture, moisture, consistency, organic material,		
Depth	Depth	Horizon	(Munsell Moist):	(Munsell Moist):	Abundance/Contrast	and other soil characteristics.		
0	6	Ap	10YR 2/2	NA	NA	NA	NA	silt loam, moist, friable
6	13	A	10YR 3/1	NA	NA	NA	NA	silt loam, moist, friable
13	22	B	10YR 4/3	10YR 5/8	common	distinct		silty clay, moist, friable

Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat	Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)
--	---

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soil is not present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Remarks: **This plot is not located in wetland.**

Site: Inaugural South Suburban Airport
 Locale: W06NW4
 Date: September 24, 2008 30 minutes
 By: AECOM: S. Johnson; T. Schultz
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NW4.inv

FLORISTIC QUALITY DATA	Native	9	56.3%	Adventive	7	43.8%
9 NATIVE SPECIES	Tree	1	6.3%	Tree	1	6.3%
16 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
1.7 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.9 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
5.0 NATIVE FQI	P-Forb	3	18.8%	P-Forb	3	18.8%
3.8 W/Adventives	B-Forb	0	0.0%	B-Forb	1	6.3%
-2.4 NATIVE MEAN W	A-Forb	4	25.0%	A-Forb	0	0.0%
-0.7 W/Adventives	P-Grass	0	0.0%	P-Grass	2	12.5%
AVG: Fac. Wetland (-)	A-Grass	1	6.3%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
CIRVUL	0 CIRSIUM VULGARE	4 FACU-	Ad B-Forb	BULL THISTLE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
JUNTEN	0 Juncus tenuis	2 [FACU+]	Nt P-Forb	PATH RUSH
JUNTOR	4 Juncus torreyi	-3 FACW	Nt P-Forb	TORREY'S RUSH
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PLAMAJ	0 PLANTAGO MAJOR	-1 FAC+	Ad P-Forb	COMMON PLANTAIN
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
TRIREF	0 TRIFOLIUM REPENS	2 FACU+	Ad P-Forb	WHITE CLOVER

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz						Date: 09/24/08 County: Will State: Illinois Community ID: PFO;Stream Station ID: W06NW-4 Plot ID: S1																																																											
Do Normal Circumstances Exist On The Site? Yes <input checked="" type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes No Is The Area A Potential Problem Area? Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Eroded and compacted pasture; Wetland area adjoins an unnamed tributary to Rock Creek--drainage altered. Highly eroded stream banks at this plot.																																																											
VEGETATION Dominant Species (50/20 Rule)																																																																	
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Not normal circumstances due to conversion to pasture.																																																																	
HYDROLOGY																																																																	
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos Other (Describe in Remarks) No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)					Wetland Hydrology Indicators: None Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)																																																												
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Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.																																																											
Depth	Depth																																																																
0	5	Ap	10YR 3/2	NA	NA	silt loam, moist, friable																																																											
5	9	Ap	10YR 3/2	10YR	5/8 common	silt loam, moist, friable																																																											
9	22	A	10YR 5/1	NA	NA	clay, moist, friable																																																											
Hydric Soil Indicators ² :																																																																	
<input type="checkbox"/> (A1) Histosol <input type="checkbox"/> (A2) Histic Epipedon <input type="checkbox"/> (A3) Black Histic <input type="checkbox"/> (A4) Hydrogen Sulfide <input type="checkbox"/> (A5) Stratified Layers <input type="checkbox"/> (A10) 2 cm Muck <input checked="" type="checkbox"/> (A11) Depleted Below Dark Surface <input type="checkbox"/> (A12) Thick Dark Surface <input type="checkbox"/> (S1) Sandy Mucky Mineral <input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat					<input type="checkbox"/> (S4) Sandy Gleyed Matrix <input type="checkbox"/> (S5) Sandy Redox <input type="checkbox"/> (S6) Stripped Matrix <input type="checkbox"/> (F1) Loamy Mucky Mineral <input type="checkbox"/> (F2) Loamy Gleyed Matrix <input type="checkbox"/> (F3) Depleted Matrix <input checked="" type="checkbox"/> (F6) Redox Dark Surface <input type="checkbox"/> (F7) Depleted Dark Surface <input type="checkbox"/> (F8) Redox Depressions																																																												
<input type="checkbox"/> (A16) Coast Prairie Redox <input type="checkbox"/> (F12) Iron-Manganese Masses <input type="checkbox"/> Other (Explain in Remarks)					¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																												
Remarks: Hydric soils are present.																																																																	
WETLAND DETERMINATION																																																																	
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes No					Hydric Soils Present? <input checked="" type="checkbox"/> Yes No Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes No																																																												
Remarks: This plot is located in wetland. This area would likely support dominant hydrophytic vegetation under normal circumstances.																																																																	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/24/08 County: Will State: Illinois Community ID: Upland Station ID: W06NW-4 Plot ID: S2
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Area is associated with an unnamed tributary to Rock Creek.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Taraxacum officinale</i>	FACU	HERB	10		7. <i>Gleditsia triacanthos</i>	FAC	SHRUB	5
2. <i>Trifolium repens</i>	FACU+	HERB	5		8. <i>Fraxinus pennsylvanica</i>	FACW	TREE	5
3. <i>Festuca elatior</i>	FACU+	HERB	25		9. <i>Ulmus americana</i>	FACW-	TREE	1
4. <i>Poa pratensis</i>	FAC-	HERB	25		10. <i>Acer saccharinum</i>	FACW	TREE	1
5. <i>Rosa multiflora</i>	FACU	SHRUB	5		11. --	--	--	--
6. <i>Morus alba</i>	FAC	TREE	5		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **50%**

Remarks: **Hydrophytic vegetation is not dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
---	--

Remarks: **Wetland hydrology is not present.**

NRCS Slide Review

SOILS

Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained									
Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
Profile Description:									
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.			
0	13	Ap	10YR 2/1	NA	NA	NA	NA	silt loam, moist, friable	
13	23	A	10YR 3/1	10YR 5/6	few	faint	silt loam, moist, friable		

Hydric Soil Indicators²:

- _____ (A1) Histosol
- _____ (A2) Histic Epipedon
- _____ (A3) Black Histic
- _____ (A4) Hydrogen Sulfide
- _____ (A5) Stratified Layers
- _____ (A10) 2 cm Muck
- _____ (A11) Depleted Below Dark Surface
- _____ (A12) Thick Dark Surface
- _____ (S1) Sandy Mucky Mineral
- _____ (S3) 5 cm Mucky Peat or Peat

- _____ (S4) Sandy Gleyed Matrix
- _____ (S5) Sandy Redox
- _____ (S6) Stripped Matrix
- _____ (F1) Loamy Mucky Mineral
- _____ (F2) Loamy Gleyed Matrix
- _____ (F3) Depleted Matrix
- _____ (F6) Redox Dark Surface
- _____ (F7) Depleted Dark Surface
- _____ (F8) Redox Depressions

Indicators for Problematic Hydric Soils¹:

- _____ (A16) Coast Prairie Redox
- _____ (F12) Iron-Manganese Masses
- _____ Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Soil profile matches Ashkum description, but hydric soil indicators are not present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Remarks: **This plot is not located in wetland.**

Site: Inaugural South Suburban Airport
 Locale: W06NW5a and b
 Date: September 24, 2008 30 minutes
 By: AECOM: S. Johnson; T. Schultz
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NW5ab.inv

FLORISTIC QUALITY DATA	Native	14	82.4%	Adventive	3	17.6%
14 NATIVE SPECIES	Tree	4	23.5%	Tree	0	0.0%
17 Total Species	Shrub	1	5.9%	Shrub	0	0.0%
1.6 NATIVE MEAN C	W-Vine	3	17.6%	W-Vine	0	0.0%
1.3 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
5.9 NATIVE FQI	P-Forb	4	23.5%	P-Forb	0	0.0%
5.3 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.1 NATIVE MEAN W	A-Forb	1	5.9%	A-Forb	0	0.0%
-0.8 W/Adventives	P-Grass	0	0.0%	P-Grass	3	17.6%
AVG: Faculative (+)	A-Grass	1	5.9%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ASTPIL	0 Aster pilosus	2 FACU+	Nt P-Forb	HAIRY ASTER
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
DACGLO	0 DACTYLIS GLOMERATA	3 FACU	Ad P-Grass	ORCHARD GRASS
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PARQUI	2 Parthenocissus quinquefolia	1 FAC-	Nt W-Vine	VIRGINIA CREEPER
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
VERHAS	4 Verbena hastata	-4 FACW+	Nt P-Forb	BLUE VERVAIN
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz						Date: 09/24/08 County: Will State: Illinois Community ID: PEM Station ID: W06NW-5 Plot ID: S1																																																											
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SOILS																																																																	
Map Unit Name: Beecher silt loam, 2 to 4 percent slopes Series Drainage Class: Somewhat poorly drained Taxonomy (Subgroup): Udollic Epiaqualfs Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																	
Profile Description: <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Top Depth</th> <th style="text-align: center;">Bottom Depth</th> <th style="text-align: center;">Horizon</th> <th style="text-align: center;">Matrix Color (Munsell Moist):</th> <th style="text-align: center;">Mottle Colors (Munsell Moist):</th> <th style="text-align: center;">Mottle Abundance/Contrast</th> <th style="text-align: center;">Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">9</td> <td style="text-align: center;">Ap</td> <td style="text-align: center;">10YR 2/1</td> <td style="text-align: center;">NA NA</td> <td style="text-align: center;">NA NA</td> <td style="text-align: center;">mucky modified silt loam, moist, friable</td> </tr> <tr> <td style="text-align: center;">9</td> <td style="text-align: center;">13</td> <td style="text-align: center;">A</td> <td style="text-align: center;">10YR 4/2</td> <td style="text-align: center;">10YR 5/6</td> <td style="text-align: center;">few faint</td> <td style="text-align: center;">sandy loam, moist, friable</td> </tr> <tr> <td style="text-align: center;">13</td> <td style="text-align: center;">23</td> <td style="text-align: center;">B</td> <td style="text-align: center;">10YR 4/3</td> <td style="text-align: center;">10YR 5/8</td> <td style="text-align: center;">common distinct</td> <td style="text-align: center;">sandy clay, moist, friable</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	0	9	Ap	10YR 2/1	NA NA	NA NA	mucky modified silt loam, moist, friable	9	13	A	10YR 4/2	10YR 5/6	few faint	sandy loam, moist, friable	13	23	B	10YR 4/3	10YR 5/8	common distinct	sandy clay, moist, friable																												
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_____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat						¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																											
Remarks: Hydric soils are present.																																																																	
WETLAND DETERMINATION																																																																	
Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																													
Remarks: This plot is located in a wetland.																																																																	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/24/08 County: Will State: Illinois Community ID: Upland Station ID: W06NW-5 Plot ID: S2
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Eroded, drainage area along property boundary.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Daucus carota</i>	UPL	HERB	10		7. --	--	--	--
2. <i>Setaria faberi</i>	FACU+	HERB	20		8. --	--	--	--
3. <i>Poa pratensis</i>	FAC-	HERB	30		9. --	--	--	--
4. <i>Plantago major</i>	FAC+	HERB	10		10. --	--	--	--
5. <i>Trifolium pratense</i>	FACU+	HERB	10		11. --	--	--	--
6. --	--	--	--		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **0%**

Remarks: **Hydrophytic vegetation is not dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
---	--

Remarks: **Wetland hydrology is not present.**

SOILS

Map Unit Name: Beecher silt loam, 2 to 4 percent slopes Series Drainage Class: Somewhat poorly drained									
Taxonomy (Subgroup): Udollic Epiaqualfs Field Observations Confirm Mapped Type? _____ Yes <input checked="" type="checkbox"/> No									
Profile Description:									
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.			
Depth	Depth								
0	5	B	10YR 4/2	NA	NA	NA	NA	NA	silty clay loam, moist, friable
5	8	2B	10YR 4/3	7.5YR	4/6	few	distinct		sandy clay loam, moist, friable
8	21	2B	10YR 5/4	10YR	5/8	few	distinct		sandy clay, moist, friable

Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat	Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)
--	---

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are not present.**

Soil matches Beecher profile description with eroded A horizon.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? _____ Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? _____ Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? _____ Yes <input checked="" type="checkbox"/> No Is This Sampling Point Within A Wetland? _____ Yes <input checked="" type="checkbox"/> No
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Remarks: **This plot is not located in wetland.**

Site: Inaugural South Suburban Airport
 Locale: W06NW6
 Date: September 25, 2008 1 hours
 By: AECOM: S. Johnson; T.Schultz
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NW6.inv

FLORISTIC QUALITY DATA	Native	10	45.5%	Adventive	12	54.5%
10 NATIVE SPECIES	Tree	1	4.5%	Tree	0	0.0%
22 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
1.8 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.8 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
5.7 NATIVE FQI	P-Forb	3	13.6%	P-Forb	2	9.1%
3.8 W/Adventives	B-Forb	1	4.5%	B-Forb	1	4.5%
0.0 NATIVE MEAN W	A-Forb	3	13.6%	A-Forb	4	18.2%
1.0 W/Adventives	P-Grass	1	4.5%	P-Grass	3	13.6%
AVG: Faculative	A-Grass	1	4.5%	A-Grass	2	9.1%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
APOCAN	4 Apocynum cannabinum	0 FAC	Nt P-Forb	INDIAN HEMP
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
CONSEP	1 Convolvulus sepium	0 FAC	Nt P-Forb	HEDGE BINDWEED
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
GAUBIB	2 Gaura biennis	4 FACU-	Nt B-Forb	BIENNIAL GAURA
GLYNMX	0 GLYCINE MAX	5 UPL	Ad A-Forb	SOY BEAN
MEDLUP	0 MEDICAGO LUPULINA	1 FAC-	Ad A-Forb	BLACK MEDICK
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SONOLE	0 SONCHUS OLERACEUS	5 [UPL]	Ad A-Forb	STORE-FRONT SOW THISTLE
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
TRIREF	0 TRIFOLIUM REPENS	2 FACU+	Ad P-Forb	WHITE CLOVER

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/25/08 County: Will State: Illinois Community ID: PEM Station ID: W06NW-6 Plot ID: S1
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Tile at roadway drains into this fallow area in an agricultural field.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Glycine max</i>	UPL	HERB	1	7. <i>Apocynum cannabinum</i>	FAC	HERB	3
2. <i>Trifolium repens</i>	FACU+	HERB	5	8. <i>Fraxinus pennsylvanica</i>	FACW	SHRUB	1
3. <i>Daucus carota</i>	UPL	HERB	2	9. --	--	--	--
4. <i>Echinochloa crusgalli</i>	FACW	HERB	1	10. --	--	--	--
5. <i>Taraxacum officinale</i>	FACU	HERB	4	11. --	--	--	--
6. <i>Panicum dichotomiflorum</i>	FACW-	HERB	2	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **33%**

Remarks: **Hydrophytic vegetation is not dominant.**

Sparse vegetation along drainage

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: 0 (in.)	

Remarks: **Wetland hydrology is present.**

Saturated soils and landscape position

SOILS

Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erodec										Series Drainage Class: Moderately well drained	
Taxonomy (Subgroup): Oxyaquic Hapludalfs										Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Profile Description:											
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.					
Depth	Depth										
0	4	Ap	10YR	3/2	NA	NA	NA	NA	clay loam, moist, friable		
4	20	A	10YR	5/2	10YR	5/8	common	prominent	sandy clay, moist, friable		

Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck <input checked="" type="checkbox"/> (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat	Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix <input checked="" type="checkbox"/> (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)
--	---

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Soil profile matches mapped soil description and hydric indicators**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
---	---

Remarks: **This plot is located in a wetland.**

This plot meets the soil and hydrology criteria, but not the vegetation criterion.

Hydrophytic vegetation will likely become established if the area is not disturbed (I.e., farmed wetland).

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/25/08 County: Will State: Illinois Community ID: Upland Station ID: W06NW-6 Plot ID: S2
Do Normal Circumstances Exist On The Site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **This plot is located in an agricultural field.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. Glycine max	UPL	HERB	70		7. --	--	--	--
2. --	--	--	--		8. --	--	--	--
3. --	--	--	--		9. --	--	--	--
4. --	--	--	--		10. --	--	--	--
5. --	--	--	--		11. --	--	--	--
6. --	--	--	--		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **0%**

Remarks: **Hydrophytic vegetation is not dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is not present.**

SOILS

Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroder Series Drainage Class: Moderately well drained									
Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
Profile Description:									
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.			
0	7	Ap	10YR 3/2	NA NA	NA NA	clay loam, moist, friable			
7	22	A	10YR 4/3	10YR 5/8	common distinct	clay, moist, friable			

Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat	Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)
--	---

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are not present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Remarks: **This plot is not located in wetland.**

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																				
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz						Date: 09/24/08 County: Will State: Illinois Community ID: PEM Station ID: W06NW-7 Plot ID: S2																																																														
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Tributary of Rock Creek is highly eroded stream corridor in pasture. No access to wetland due to presence of bull. No vegetation/soil core recorded. Area visible from road and adjacent farmyard.																																																														
VEGETATION Dominant Species (50/20 Rule) <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 10%;"></th> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr><td>1. <i>Fraxinus pennsylvanica</i></td><td>FACW</td><td>TREE</td><td>--</td><td></td><td>7. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>2. <i>Acer negundo</i></td><td>FACW-</td><td>TREE</td><td>--</td><td></td><td>8. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>3. <i>polygonum sp.</i></td><td>unknown</td><td>HERB</td><td>--</td><td></td><td>9. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>4. <i>Echinochloa crusgalli</i></td><td>FACW</td><td>HERB</td><td>--</td><td></td><td>10. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>5. <i>Poa pratensis</i></td><td>FAC-</td><td>HERB</td><td>--</td><td></td><td>11. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>6. <i>Festuca elatior</i></td><td>UPL</td><td>HERB</td><td>--</td><td></td><td>12. --</td><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover	1. <i>Fraxinus pennsylvanica</i>	FACW	TREE	--		7. --	--	--	--	2. <i>Acer negundo</i>	FACW-	TREE	--		8. --	--	--	--	3. <i>polygonum sp.</i>	unknown	HERB	--		9. --	--	--	--	4. <i>Echinochloa crusgalli</i>	FACW	HERB	--		10. --	--	--	--	5. <i>Poa pratensis</i>	FAC-	HERB	--		11. --	--	--	--	6. <i>Festuca elatior</i>	UPL	HERB	--	
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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz						Date: 09/24/08 County: Will State: Illinois Community ID: Upland Station ID: W06NW-7 Plot ID: S1																																																											
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Remarks: Hydric soils are not mapped. Land slopes uphill away from channel in center of field.																																																																	
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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport	Date: 09/24/08
Applicant/Owner: Illinois Department of Transportation	County: Will
Investigator #1: Sarah Johnson #2: Tory Schultz	State: Illinois
Do Normal Circumstances Exist On The Site? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Community ID: Upland
Is The Site Significantly Disturbed (Atypical Situation)? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Station ID: W06NW-8
Is The Area A Potential Problem Area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, define below.)	Plot ID: S1

Remarks: **Eroded agricultural field (soybeans)**
NRCS slide review site

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. Glycine max	UPL	HERB	100		7. --	--	--	--
2. --	--	--	--		8. --	--	--	--
3. --	--	--	--		9. --	--	--	--
4. --	--	--	--		10. --	--	--	--
5. --	--	--	--		11. --	--	--	--
6. --	--	--	--		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **0%**

Remarks: **Hydrophytic vegetation is not dominant.**
Successful soybean crop.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <div style="margin-left: 20px;"> <input type="checkbox"/> Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos <input type="checkbox"/> Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available </div>	Wetland Hydrology Indicators: <input type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Scour marks show where water flows toward the creek during rain events.**
No evidence that inundation occurs at site. NRCS Slide Review

SOILS

Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes				Series Drainage Class: Poorly drained			
Taxonomy (Subgroup): Typic Endoaquolls				Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Profile Description:							
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	
0	5	Ap	10YR 2/2	NA	NA	silty clay loam, moist, friable	
5	12	A	10YR 3/2	10YR	5/6 few	silty clay loam, moist, friable	
12	22	B	10YR 6/1	10YR	5/6 common	clay, moist, friable	

Hydric Soil Indicators²:

- ☐ (A1) Histosol
- ☐ (A2) Histic Epipedon
- ☐ (A3) Black Histic
- ☐ (A4) Hydrogen Sulfide
- ☐ (A5) Stratified Layers
- ☐ (A10) 2 cm Muck
- ☒ (A11) Depleted Below Dark Surface
- ☐ (A12) Thick Dark Surface
- ☐ (S1) Sandy Mucky Mineral
- ☐ (S3) 5 cm Mucky Peat or Peat

- ☐ (S4) Sandy Gleyed Matrix
- ☐ (S5) Sandy Redox
- ☐ (S6) Stripped Matrix
- ☐ (F1) Loamy Mucky Mineral
- ☐ (F2) Loamy Gleyed Matrix
- ☐ (F3) Depleted Matrix
- ☐ (F6) Redox Dark Surface
- ☐ (F7) Depleted Dark Surface
- ☐ (F8) Redox Depressions

Indicators for Problematic Hydric Soils¹:

- ☐ (A16) Coast Prairie Redox
- ☐ (F12) Iron-Manganese Masses
- ☐ Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is This Sampling Point Within A Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Remarks: **This plot is not located in wetland.**
Successful corn crop and insufficient evidence of wetland hydrology

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/25/08 County: Will State: Illinois Community ID: Upland Station ID: W06NW-9 Plot ID: NA
Do Normal Circumstances Exist On The Site? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is The Site Significantly Disturbed (Atypical Situation)? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is The Area A Potential Problem Area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, define below.)	

Remarks: **Soybean field with successful corn crop**
 NRCS slide review site

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. Glycine max	UPL	HERB	100		7. --	--	--	--
2. --	--	--	--		8. --	--	--	--
3. --	--	--	--		9. --	--	--	--
4. --	--	--	--		10. --	--	--	--
5. --	--	--	--		11. --	--	--	--
6. --	--	--	--		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **0%**

Remarks: **Hydrophytic vegetation is not present.**
 Successful soybean crop

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is not present.**
 NRCS Slide Review

SOILS

Map Unit Name: **Ashkum silty clay loam, 0 to 2 percent slopes** Series Drainage Class: **Poorly drained**
 Taxonomy (Subgroup): **Typic Endoaquolls** Field Observations Confirm Mapped Type? **No soil core taken*** Yes ☐ No ☐

Profile Description:		Top	Bottom	Matrix Color	Mottle Colors	Mottle	Texture, moisture, consistency, organic material, and other soil characteristics.	
Depth	Depth	Horizon	(Munsell Moist):	(Munsell Moist):	Abundance/Contrast			

Hydric Soil Indicators²:

- | | |
|---|--|
| <input type="checkbox"/> (A1) Histosol
<input type="checkbox"/> (A2) Histic Epipedon
<input type="checkbox"/> (A3) Black Histic
<input type="checkbox"/> (A4) Hydrogen Sulfide
<input type="checkbox"/> (A5) Stratified Layers
<input type="checkbox"/> (A10) 2 cm Muck
<input type="checkbox"/> (A11) Depleted Below Dark Surface
<input type="checkbox"/> (A12) Thick Dark Surface
<input type="checkbox"/> (S1) Sandy Mucky Mineral
<input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat | <input type="checkbox"/> (S4) Sandy Gleyed Matrix
<input type="checkbox"/> (S5) Sandy Redox
<input type="checkbox"/> (S6) Stripped Matrix
<input type="checkbox"/> (F1) Loamy Mucky Mineral
<input type="checkbox"/> (F2) Loamy Gleyed Matrix
<input type="checkbox"/> (F3) Depleted Matrix
<input type="checkbox"/> (F6) Redox Dark Surface
<input type="checkbox"/> (F7) Depleted Dark Surface
<input type="checkbox"/> (F8) Redox Depressions |
|---|--|

Indicators for Problematic Hydric Soils¹:

- | | |
|---|--|
| <input type="checkbox"/> (A16) Coast Prairie Redox
<input type="checkbox"/> (F12) Iron-Manganese Masses
<input type="checkbox"/> Other (Explain in Remarks) | |
|---|--|

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are mapped.**
 *Wetland vegetation and hydrology are not present, so no soil core collected.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? No soil core taken* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---	--

Remarks: **This plot is not located in wetland.**
 *Wetland vegetation and hydrology are not present, so no soil core collected.

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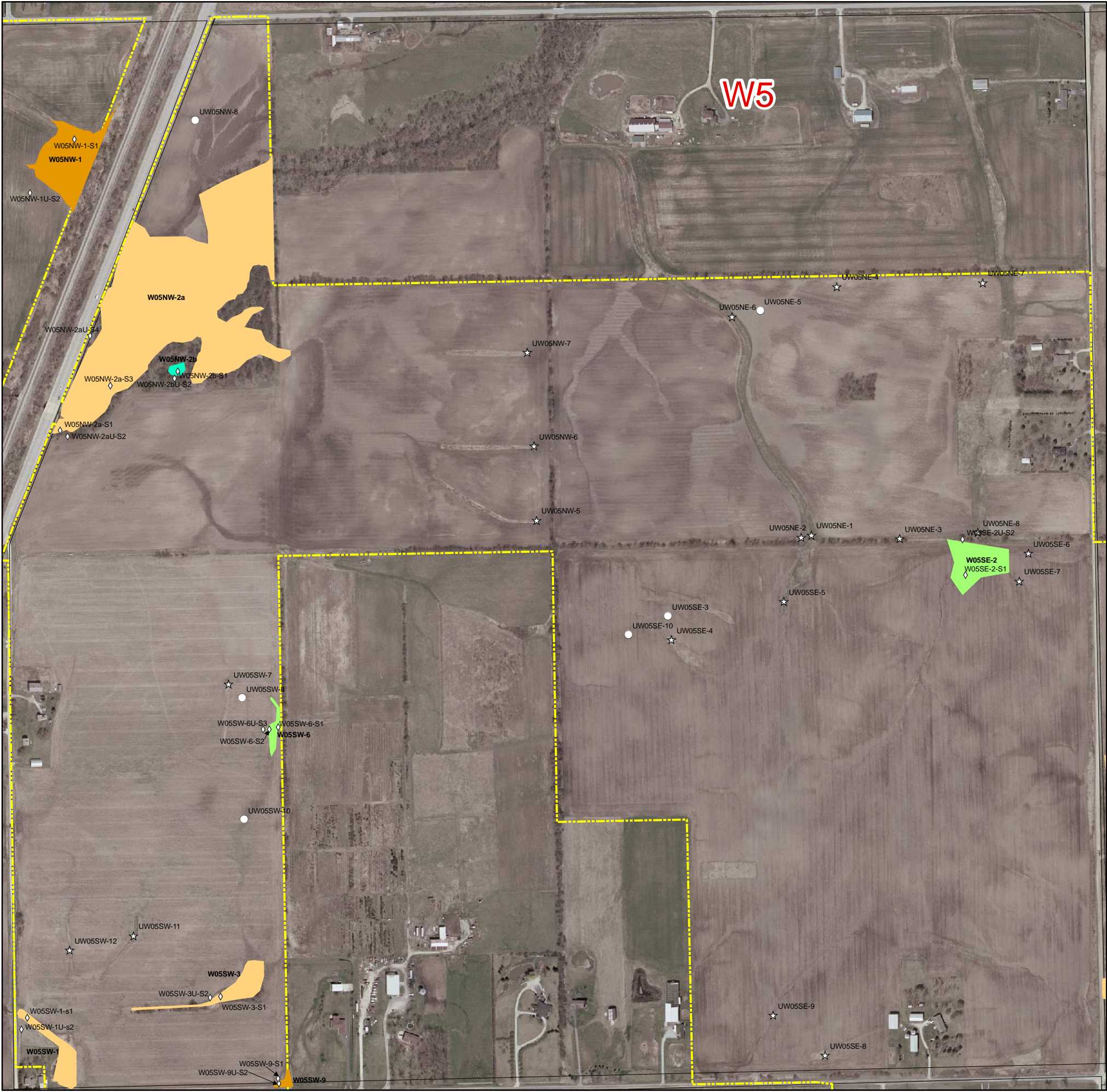
Appendix E Section Will 05

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
UW05NE-1	NA	NA	NA	Photo N
UW05NE-2	NA	NA	NA	Photo W
UW05NE-3	NA	NA	NA	Photo W
UW05NE-4	NA	NA	NA	Photo W
UW05NE-5	20	No	NA	Photo W
UW05NE-6	NA	NA	NA	Photo N
UW05NE-7	NA	NA	NA	Photo W
UW05NE-8	NA	NA	NA	
W05NW-1-S1	22	Yes	17.2	
W05NW-1U-S2	20	Yes		
W05NW-2a-S1	18	Yes	21.1	
W05NW-2aU-S2	18	No		
W05NW-2a-S3	22	Yes		
W05NW-2aU-S4	0	No		
W05NW-2b-S1	21	Yes	6.3	
W05NW-2bU-S2	21	No		
UW05NW-5	NA	NA	NA	Photo W
UW05NW-6	NA	NA	NA	Photo W
UW05NW-7	NA	NA	NA	Photo W
UW05NW-8	12	No	NA	
W05SE-2-S1	21	Yes	0.0	
W05SE-2U-S2	0	No		
UW05SE-3	20	No	NA	
UW05SE-4	NA	NA	NA	Photo E
UW05SE-5	NA	NA	NA	Photo N
UW05SE-6	NA	NA	NA	
UW05SE-7	NA	NA	NA	
UW05SE-8	NA	NA	NA	
UW05SE-9	NA	NA	NA	
UW05SE-10	10	No	NA	
W05SW-1-S1	25	Yes	9.8	
W05SW-1U-S2	23	No		
W05SW-3-S1	21	Yes	12.4	
W05SW-3U-S2	21	No		
W05SW-6-S1	20	Yes	0.0	
W05SW-6-S2	10	Yes		
W05SW-6U-S3	12	No		
UW05SW-7	NA	NA	NA	Photo S
UW05SW-8	20	No	NA	
W05SW-9-S1	20	Yes	9.0	
W05SW-9U-S2	20	Yes		

Appendix E
Section Will 05

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
UW05SW-10	20	No	NA	
UW05SW-11	NA	NA	NA	
UW05SW-12	NA	NA	NA	

NA = not applicable



Legend

Wetland Type

- PEM
- PSS
- PFO
- PEM/PFO
- PSS/PEM
- PFO/PSS
- POW
- Stream
- Wetland Complex

- 2008 Study Boundary
- Sections
- Upland Soil Cores
- Upland Photo Locations
- Wetland Soil Cores

N

EXHIBIT E-1C
Will Township Section 5
2008 - 2009 FIELD INVESTIGATION RESULTS
South Suburban Airport

Illinois Department of Transportation
Division of Aeronautics

0 250 500 1,000 1,500
Feet

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
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Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* Yes <input type="checkbox"/> No <input type="checkbox"/>																																																																								
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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport	Date: 08/26/08
Applicant/Owner: Illinois Department of Transportation	County: Will
Investigator #1: Sarah Johnson #2: Tory Schultz	State: Illinois
Do Normal Circumstances Exist On The Site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Community ID: Upland
Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Station ID: W05NE-4
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	Plot ID: NA

Remarks: **Natural depression on hillside. Agricultural field**
 NRCS Slide Review site

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Zea mays</i>	UPL	HERB	--		7. --	--	--	--
2. <i>Asclepias syriaca</i>	UPL	HERB	--		8. --	--	--	--
3. <i>Setaria faberi</i>	FACU+	HERB	--		9. --	--	--	--
4. <i>Ambrosia artemisiifolia</i>	FACU	HERB	--		10. --	--	--	--
5. --	--	--	--		11. --	--	--	--
6. --	--	--	--		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **0%**

Remarks: **Hydrophytic vegetation is not dominant**
 Corn crop with upland weeds. Cover percentages not recorded.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is not present.**
 NRCS Slide Review

SOILS

Map Unit Name: Ozaukee silt loam	Series Drainage Class: Moderately well drained																																										
Taxonomy (Subgroup): Oxyaquic Hapludalfs	Field Observations Confirm Mapped Type? No soil core taken* <input type="checkbox"/> Yes <input type="checkbox"/> No																																										
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Remarks: **Hydric soils are not mapped.**
 *Vegetation and hydrology do not meet wetland criteria, so no soil core was taken.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? No soil core taken* <input type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Remarks: **This plot is not located in wetland.**
 * Vegetation and hydrology do not meet wetland criteria, so no soil core was taken.

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Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ X Yes _____ No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: Drainage within ag field; aerial signature of drain tile present NRCS Slide Review site																																																									
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<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available				Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)																																																											
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SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? _____ Yes _____ X No																																																															
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Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat						Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)																																																									
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Remarks: This plot is not located in wetland.																																																															

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport	Date: 08/26/08
Applicant/Owner: Illinois Department of Transportation	County: Will
Investigator #1: Sarah Johnson #2: Tory Schultz	State: Illinois
Do Normal Circumstances Exist On The Site? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Community ID: Upland
Is The Site Significantly Disturbed (Atypical Situation)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Station ID: W05NE-6
Is The Area A Potential Problem Area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, define below.)	Plot ID: NA

Remarks: **tile drainage, grassed waterway**
NRCS Slide Review site

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Trifolium repens</i>	FACU+	HERB	--	7. <i>Poa pratensis</i>	FAC-	HERB	--
2. <i>Setaria faberi</i>	FACU+	HERB	--	8. <i>Ambrosia artemisiifolia</i>	FACU	HERB	--
3. <i>Taraxacum officinale</i>	FACU	HERB	--	9. --	--	--	--
4. <i>Trifolium pratense</i>	FACU+	HERB	--	10. --	--	--	--
5. <i>Daucus carota</i>	UPL	HERB	--	11. --	--	--	--
6. <i>Ambrosia trifida</i>	FAC+	HERB	--	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **13%**

Remarks: **Hydrophytic vegetation not dominant.**
Cover percentages not recorded.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <div style="margin-left: 20px;"> <input type="checkbox"/> Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos <input type="checkbox"/> Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available </div>	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is not present.**
NRCS Slide Review

SOILS

Map Unit Name: **Ashkum silty clay loam, 0 to 2 percent slopes** Series Drainage Class: **poorly drained**
Taxonomy (Subgroup): **Typic Endoaquolls** Field Observations Confirm Mapped Type? **No soil core collected*** Yes ☐ No ☐

Profile Description:		Top	Bottom	Matrix Color	Mottle Colors	Mottle	Texture, moisture, consistency, organic material, and other soil characteristics.
Depth	Depth	Horizon	(Munsell Moist):	(Munsell Moist):	Abundance/Contrast		

Hydric Soil Indicators²:

- ☐ (A1) Histosol
- ☐ (A2) Histic Epipedon
- ☐ (A3) Black Histic
- ☐ (A4) Hydrogen Sulfide
- ☐ (A5) Stratified Layers
- ☐ (A10) 2 cm Muck
- ☐ (A11) Depleted Below Dark Surface
- ☐ (A12) Thick Dark Surface
- ☐ (S1) Sandy Mucky Mineral
- ☐ (S3) 5 cm Mucky Peat or Peat

- ☐ (S4) Sandy Gleyed Matrix
- ☐ (S5) Sandy Redox
- ☐ (S6) Stripped Matrix
- ☐ (F1) Loamy Mucky Mineral
- ☐ (F2) Loamy Gleyed Matrix
- ☐ (F3) Depleted Matrix
- ☐ (F6) Redox Dark Surface
- ☐ (F7) Depleted Dark Surface
- ☐ (F8) Redox Depressions

Indicators for Problematic Hydric Soils¹:

- ☐ (A16) Coast Prairie Redox
- ☐ (F12) Iron-Manganese Masses
- ☐ Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are mapped.**
*No soil core collected because, wetland vegetation and wetland hydrology are not present.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Hydric Soils Present? No soil core was taken* Yes <input type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is This Sampling Point Within A Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Remarks: **This plot is not located in wetland.**
*Wetland vegetation and wetland hydrology are not present, so no soil core collected.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
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Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: NA																																																											
Remarks: natural depression on hilltop, agricultural; field tile probably present NRCS Slide Review site																																																																	
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SOILS																																																																	
Map Unit Name: Markham silt loam					Series Drainage Class: Moderately well-drained																																																												
Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs					Field Observations Confirm Mapped Type? No soil core taken* <input type="checkbox"/> Yes <input type="checkbox"/> No																																																												
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Remarks: This plot is not located in wetland. *No soil core taken, because vegetation and hydrology do not meet wetland criteria.																																																																	

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																																					
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz						Date: 08/26/08 County: Will State: Illinois Community ID: Upland Station ID: W05NE-8 Plot ID: NA																																																																															
Do Normal Circumstances Exist On The Site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)																																																																																					
Remarks: Plot location is in cornfield on hillside near tiled drainageway NRCS Slide Review site																																																																																					
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Site: Inaugural South Suburban Airport
 Locale: W05NW1
 Date: August 14, 2008 8 hours
 By: AECOM: T.Radke; R. West
 File: l:\work\103576\wp\Environmental\Wetland Delineation\Completed Field Forms\Revised
 Forms\W05\FQI\W05NW1.inv

FLORISTIC QUALITY DATA	Native	43	70.5%	Adventive	18	29.5%
43 NATIVE SPECIES	Tree	4	6.6%	Tree	1	1.6%
61 Total Species	Shrub	2	3.3%	Shrub	1	1.6%
2.6 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.9 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
17.2 NATIVE FQI	P-Forb	16	26.2%	P-Forb	4	6.6%
14.5 W/Adventives	B-Forb	2	3.3%	B-Forb	3	4.9%
-1.4 NATIVE MEAN W	A-Forb	9	14.8%	A-Forb	6	9.8%
-0.4 W/Adventives	P-Grass	5	8.2%	P-Grass	2	3.3%
AVG: Faculative (+)	A-Grass	1	1.6%	A-Grass	1	1.6%
	P-Sedge	3	4.9%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	1	1.6%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0	Acer negundo	-2	FACW-	Nt Tree	BOX ELDER
ALLPET	0	ALLIARIA PETIOLATA	0	FAC	Ad B-Forb	GARLIC MUSTARD
AMBARE	0	Ambrosia artemisiifolia elatior	3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASACAN	7	Asarum canadense	5	UPL	Nt P-Forb	WILD GINGER
ASPOFF	0	ASPARAGUS OFFICINALIS	3	FACU	Ad P-Forb	ASPARAGUS
ATRPAT	0	ATRIplex PATULA	-2	FACW-	Ad A-Forb	COMMON ORACH
BIDFRO	1	Bidens frondosa	-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CXVULP	2	Carex vulpinoidea	-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
CELOCC	3	Celtis occidentalis	1	FAC-	Nt Tree	HACKBERRY
CHEALB	0	CHENOPODIUM ALBUM	1	FAC-	Ad A-Forb	LAMB'S QUARTERS
CIRARV	0	CIRSIUM ARVENSE	5	UPL	Ad P-Forb	FIELD THISTLE
CYPESC	0	Cyperus esculentus	-1	[FAC+]	Nt P-Sedge	FIELD NUT SEDGE
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0	Echinochloa crusgalli	-3	FACW	Nt A-Grass	BARNYARD GRASS
ELYCAN	4	Elymus canadensis	1	FAC-	Nt P-Grass	CANADA WILD RYE
ELYVIR	4	Elymus virginicus	-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
EPICOL	3	Epilobium coloratum	-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
EQUARV	0	Equisetum arvense	0	FAC	Cryptogam	HORSETAIL
EREHIE	2	Erechtites hieracifolia	3	FACU	Nt A-Forb	FIREWEED
ERICAN	0	Erigeron canadensis	1	FAC-	Nt A-Forb	HORSEWEED
ERISTR	5	Erigeron strigosus	5	[UPL]	Nt B-Forb	DAISY FLEABANE
GEUCAN	1	Geum canadense	0	FAC	Nt P-Forb	WOOD AVENS
GEULAT	2	Geum laciniatum trichocarpum	-3	FACW	Nt P-Forb	ROUGH AVENS
GLYSTR	4	Glyceria striata	-3	[FACW]	Nt P-Grass	FOWL MANNA GRASS

GLYNMX	0 GLYCINE MAX	5 UPL	Ad A-Forb	SOY BEAN
HACVIR	0 Hackelia virginiana	1 FAC-	Nt B-Forb	STICKSEED
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
HIBTRI	0 HIBISCUS TRIONUM	5 UPL	Ad A-Forb	FLOWER-OF-AN-HOUR
HORJUB	0 HORDEUM JUBATUM	-1 FAC+	Ad P-Grass	SQUIRREL-TAIL GRASS
IMPCAP	3 Impatiens capensis	-3 FACW	Nt A-Forb	ORANGE JEWELWEED
LAPCAN	3 Laportea canadensis	-3 FACW	Nt P-Forb	WOOD NETTLE
LEEORY	4 Leersia oryzoides	-5 OBL	Nt P-Grass	RICE CUT GRASS
LEEVIR	7 Leersia virginica	-3 FACW	Nt P-Grass	WHITE GRASS
LOBSIP	6 Lobelia siphilitica	-4 FACW+	Nt P-Forb	GREAT BLUE LOBELIA
LONMAA	0 LONICERA MAACKII	5 UPL	Ad Shrub	AMUR HONEYSUCKLE
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
OSMLON	3 Osmorhiza longistylis	4 FACU-	Nt P-Forb	SMOOTH SWEET CICELY
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PHYAME	1 Phytolacca americana	1 FAC-	Nt P-Forb	POKEWEED
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLLAP	0 Polygonum lapathifolium	-4 FACW+	Nt A-Forb	HEARTSEASE
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PYCVIR	5 Pycnanthemum virginianum	-4 FACW+	Nt P-Forb	COMMON MOUNTAIN MINT
RORPAF	4 Rorippa palustris fernaldiana	-5 OBL	Nt A-Forb	MARSH CRESS
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
RUMVER	6 Rumex verticillatus	-5 OBL	Nt P-Forb	SWAMP DOCK
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SCIFLU	4 Scirpus fluviatilis	-5 OBL	Nt P-Sedge	RIVER BULRUSH
SCRMAR	4 Scrophularia marilandica	4 FACU-	Nt P-Forb	LATE FIGWORT
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SILPER	5 Silphium perfoliatum	-2 FACW-	Nt P-Forb	CUP PLANT
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
TRIPRA	0 TRIFOLIUM PRATENSE	5 UPL	Ad P-Forb	RED CLOVER
VERHAS	4 Verbena hastata	-4 FACW+	Nt P-Forb	BLUE VERVAIN
VIOSOR	3 Viola sororia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET
XANSTR	0 XANTHIUM STRUMARIUM	0 FAC	Ad A-Forb	COCKLEBUR

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport						Date: 08/15/08																																																																		
Applicant/Owner: Illinois Department of Transportation						County: Will																																																																		
Investigator #1: Teri Radke #2: Robyn West						State: Illinois																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: PEM;PSS																																																																		
Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Station ID: W05NW-1																																																																		
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: SC-1																																																																		
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Applicant/Owner: Illinois Department of Transportation						County: Will																																																											
Investigator #1: Teri Radke #2: Robyn West						State: Illinois																																																											
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No						Community ID: Upland																																																											
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Remarks: 2 photos 1sb, 1 facing n Long gentle gradient in corn field.																																																																	
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Map Unit Name: Ozaukee silt loam						Series Drainage Class: Moderately well drained																																																											
Taxonomy (Subgroup): Oxyaquic Hapludalfs						Field Observations Confirm Mapped Type? _____ X Yes _____ No																																																											
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0	20	A	10YR 5/3	0-12 10YR 2/1 0-20 7.5YR 5/8 > 20" 5YR 5/8	few distinct faint distinct	concretions found @ 20" 10YR 6/8 clay, moist , sticky																																																											
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					¹ Indicators of hydrophytic vegetation and wetland hydrology must be present.																																																												
					² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																												
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Site: Inaugural South Suburban Airport
 Locale: W05NW2a
 Date: August 15, 2008 2 hours
 By: AECOM: T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W05NW2a.inv

FLORISTIC QUALITY DATA	Native	48	76.2%	Adventive	15	23.8%
48 NATIVE SPECIES	Tree	8	12.7%	Tree	2	3.2%
63 Total Species	Shrub	3	4.8%	Shrub	1	1.6%
3.0 NATIVE MEAN C	W-Vine	4	6.3%	W-Vine	0	0.0%
2.3 W/Adventives	H-Vine	1	1.6%	H-Vine	0	0.0%
21.1 NATIVE FQI	P-Forb	20	31.7%	P-Forb	3	4.8%
18.4 W/Adventives	B-Forb	1	1.6%	B-Forb	2	3.2%
-0.8 NATIVE MEAN W	A-Forb	6	9.5%	A-Forb	4	6.3%
-0.4 W/Adventives	P-Grass	5	7.9%	P-Grass	3	4.8%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
ALLPET	0 ALLIARIA PETIOLATA	0 FAC	Ad B-Forb	GARLIC MUSTARD
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ASACAN	7 Asarum canadense	5 UPL	Nt P-Forb	WILD GINGER
ASPOFF	0 ASPARAGUS OFFICINALIS	3 FACU	Ad P-Forb	ASPARAGUS
ASTLAT	4 Aster lateriflorus	-2 FACW-	Nt P-Forb	SIDE-FLOWERING ASTER
ASTNOV	4 Aster novae-angliae	-3 FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
ATRPAT	0 ATRIPLEX PATULA	-2 FACW-	Ad A-Forb	COMMON ORACH
CELOCC	3 Celtis occidentalis	1 FAC-	Nt Tree	HACKBERRY
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
CRAMOL	2 Crataegus mollis	4 FACU-	Nt Tree	DOWNY HAWTHORN
CUSGRO	4 Cuscuta gronovii	-5 [OBL]	Nt A-Forb	COMMON DODDER
ELYCAN	4 Elymus canadensis	1 FAC-	Nt P-Grass	CANADA WILD RYE
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
EUPRUG	4 Eupatorium rugosum	5 UPL	Nt P-Forb	WHITE SNAKEROOT
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
GLETRI	2 Gleditsia triacanthos	0 FAC	Nt Tree	HONEY LOCUST
GLYSTR	4 Glyceria striata	-3 [FACW]	Nt P-Grass	FOWL MANNA GRASS
GLYNMX	0 GLYCINE MAX	5 UPL	Ad A-Forb	SOY BEAN
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER

IMPCAP	3	<i>Impatiens capensis</i>	-3	FACW	Nt A-Forb	ORANGE JEWELWEED
LAPCAN	3	<i>Laportea canadensis</i>	-3	FACW	Nt P-Forb	WOOD NETTLE
LEEORY	4	<i>Leersia oryzoides</i>	-5	OBL	Nt P-Grass	RICE CUT GRASS
LEEVIR	7	<i>Leersia virginica</i>	-3	FACW	Nt P-Grass	WHITE GRASS
LOBSIP	6	<i>Lobelia siphilitica</i>	-4	FACW+	Nt P-Forb	GREAT BLUE LOBELIA
LONMAA	0	<i>LONICERA MAACKII</i>	5	UPL	Ad Shrub	AMUR HONEYSUCKLE
MONFIS	4	<i>Monarda fistulosa</i>	3	FACU	Nt P-Forb	WILD BERGAMOT
MORALB	0	<i>MORUS ALBA</i>	0	FAC	Ad Tree	WHITE MULBERRY
OENBIE	0	<i>Oenothera biennis</i>	3	FACU	Nt B-Forb	COMMON EVENING PRIMROSE
OSMLON	3	<i>Osmorhiza longistylis</i>	4	FACU-	Nt P-Forb	SMOOTH SWEET CICELY
PARQUI	2	<i>Parthenocissus quinquefolia</i>	1	FAC-	Nt W-Vine	VIRGINIA CREEPER
PASSAT	0	<i>PASTINACA SATIVA</i>	5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0	<i>PHALARIS ARUNDINACEA</i>	-4	FACW+	Ad P-Grass	REED CANARY GRASS
PHYAME	1	<i>Phytolacca americana</i>	1	FAC-	Nt P-Forb	POKEWEED
PILPUM	5	<i>Pilea pumila</i>	-3	FACW	Nt A-Forb	CLEARWEED
POAPRA	0	<i>POA PRATENSIS</i>	1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLHYR	2	<i>Polygonum hydropiper</i>	-3	FACW	Nt A-Forb	WATER PEPPER
POLPER	0	<i>POLYGONUM PERSICARIA</i>	1	[FAC-]	Ad A-Forb	LADY'S THUMB
POLGVI	2	<i>Polygonum virginianum</i>	0	FAC	Nt P-Forb	WOODLAND KNOTWEED
POPDEL	2	<i>Populus deltoides</i>	-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1	<i>Prunus serotina</i>	3	FACU	Nt Tree	WILD BLACK CHERRY
PYCVIR	5	<i>Pycnanthemum virginianum</i>	-4	FACW+	Nt P-Forb	COMMON MOUNTAIN MINT
RHURAD	2	<i>Rhus radicans</i>	-1	FAC+	Nt W-Vine	POISON IVY
RUDLAC	5	<i>Rudbeckia laciniata</i>	-4	FACW+	Nt P-Forb	WILD GOLDEN GLOW
RUMCRI	0	<i>RUMEX CRISPUS</i>	-1	FAC+	Ad P-Forb	CURLY DOCK
RUMVER	6	<i>Rumex verticillatus</i>	-5	OBL	Nt P-Forb	SWAMP DOCK
SALFRA	0	<i>SALIX FRAGILIS</i>	-1	FAC+	Ad Tree	CRACK WILLOW
SALINT	1	<i>Salix interior</i>	-5	OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4	<i>Salix nigra</i>	-5	OBL	Nt Tree	BLACK WILLOW
SAMCAN	1	<i>Sambucus canadensis</i>	-2	FACW-	Nt Shrub	ELDERBERRY
SCRMAR	4	<i>Scrophularia marilandica</i>	4	FACU-	Nt P-Forb	LATE FIGWORT
SICANG	5	<i>Sicyos angulatus</i>	-2	FACW-	Nt H-Vine	BUR CUCUMBER
SILPER	5	<i>Silphium perfoliatum</i>	-2	FACW-	Nt P-Forb	CUP PLANT
SOLALT	1	<i>Solidago altissima</i>	3	FACU	Nt P-Forb	TALL GOLDENROD
VIOSOR	3	<i>Viola sororia</i>	1	FAC-	Nt P-Forb	COMMON BLUE VIOLET
VITAES	7	<i>Vitis aestivalis</i>	3	FACU	Nt W-Vine	SUMMER GRAPE
VITRIP	2	<i>Vitis riparia</i>	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Matt Hildreth						Date: 08/12/08 County: Will State: Illinois Community ID: Wetland Complex Station ID: W05NW-2a Plot ID: S1																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Plot within wooded floodplain of Rock Creek																																																											
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Map Unit Name: Jasper loam, 2 to 5 percent slopes				Series Drainage Class: Well drained																																																													
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Site: Inaugural South Suburban Airport
 Locale: W05NW2b
 Date: August 14, 2008 30 minutes
 By: AECOM: A. Amelse; M. Hildreth
 File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W05NW2b.inv

FLORISTIC QUALITY DATA	Native	10	90.9%	Adventive	1	9.1%
10 NATIVE SPECIES	Tree	4	36.4%	Tree	0	0.0%
11 Total Species	Shrub	1	9.1%	Shrub	0	0.0%
2.0 NATIVE MEAN C	W-Vine	2	18.2%	W-Vine	0	0.0%
1.8 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.3 NATIVE FQI	P-Forb	3	27.3%	P-Forb	0	0.0%
6.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.4 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
0.0 W/Adventives	P-Grass	0	0.0%	P-Grass	1	9.1%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ASTLAT	4 Aster lateriflorus	-2 FACW-	Nt P-Forb	SIDE-FLOWERING ASTER
CRAMOL	2 Crataegus mollis	4 FACU-	Nt Tree	DOWNY HAWTHORN
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
PARQUI	2 Parthenocissus quinquefolia	1 FAC-	Nt W-Vine	VIRGINIA CREEPER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLGVI	2 Polygonum virginianum	0 FAC	Nt P-Forb	WOODLAND KNOTWEED
PRUSER	1 Prunus serotina	3 FACU	Nt Tree	WILD BLACK CHERRY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Matt Hildreth						Date: 08/14/08 County: Will State: Illinois Community ID: PEM Station ID: W05NW-2b Plot ID: S1																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: 2 photos, dry recently (hydrology) Plot is in small depression on terrace above floodplain of Rock Creek																																																											
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Remarks: Hydric soils are present. Soil characteristics more closely resemble Pella clay loam, the hydric soil mapped adjacent.																																																																	
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Applicant/Owner: Illinois Department of Transportation						County: Will																																																											
Investigator #1: Ann Amelse #2: Matt Hildreth						State: Illinois																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: Upland																																																											
Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Station ID: W05NW-2b																																																											
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: S2																																																											
Remarks: Plot on terrace above floodplain of Rock Creek																																																																	
VEGETATION																																																																	
Dominant Species (50/20 Rule)																																																																	
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Map Unit Name: Jasper loam, 5 to 10 percent slopes, ero Series Drainage Class: well drained																																																																	
Taxonomy (Subgroup): Typic Argiudolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																	
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Site: Inaugural South Suburban Airport
 Locale: W05SE2
 Date: August 25, 2008 15 minutes
 By: AECOM: S. Johnson; T. Schultz
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W05SE2.inv

FLORISTIC QUALITY DATA	Native	2	33.3%	Adventive	4	66.7%
2 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
6 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	1	16.7%
-2.0 NATIVE MEAN W	A-Forb	1	16.7%	A-Forb	1	16.7%
1.3 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Fac. Wetland (-)	A-Grass	1	16.7%	A-Grass	2	33.3%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
IPOHED	0 IPOMOEA HEDERACEA	0 FAC	Ad A-Forb	IVY-LEAVED MORNING GLORY
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
ZEAMAY	0 ZEA MAYS	5 UPL	Ad A-Grass	CORN

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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz						Date: 08/25/08 County: Will State: Illinois Community ID: FW Station ID: W05SE-2 Plot ID: S1																																																																		
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Remarks: This plot is located in wetland. Plot has positive indicators for wetland hydrology and soils. Drainage tiles are effective enough to eliminate wetland vegetation. Under normal circumstances, wetland vegetation would likely be present.																																																																								

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Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes					Series Drainage Class: Poorly drained																																																												
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Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)																																																																	
Remarks: Wetland hydrology is not present. Area is on a slope. NRCS Slide Review																																																																	
SOILS																																																																	
Map Unit Name: Ozaukee silt loam					Series Drainage Class: Moderately well drained																																																												
Taxonomy (Subgroup): Oxyaquic Hapludalfs					Field Observations Confirm Mapped Type? No soil core taken* _____ Yes _____ No																																																												
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Top	Bottom		Matrix Color	Mottle Colors	Mottle	Texture, moisture, consistency, organic material,																																																											
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² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																																	
Remarks: Hydric soils are not mapped. *Wetland vegetation and hydrology are not present, so no soil core collected.																																																																	
WETLAND DETERMINATION																																																																	
Hydrophytic Vegetation Present? _____ Yes _____ X No					Hydric Soils Present? No soil core taken* _____ Yes _____ No																																																												
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Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.																																																																	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 08/26/08 County: Will State: Illinois Community ID: Upland Station ID: W05SE-7 Plot ID: NA
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Tiled drainage in grassed waterway**
 NRCS Slide Review site

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Trifolium repens</i>	FACU+	HERB	--	7. <i>Poa pratensis</i>	FAC-	HERB	--
2. <i>Setaria faberi</i>	FACU+	HERB	--	8. <i>Ambrosia artemisiifolia</i>	FACU	HERB	--
3. <i>Taraxacum officinale</i>	FACU	HERB	--	9. --	--	--	--
4. <i>Trifolium pratense</i>	FACU+	HERB	--	10. --	--	--	--
5. <i>Daucus carota</i>	UPL	HERB	--	11. --	--	--	--
6. <i>Ambrosia trifida</i>	FAC+	HERB	--	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **13%**

Remarks: **Hydrophytic vegetation is not dominant.**
 Cover percentages not recorded.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
---	--

Remarks: **Wetland hydrology is not present.**
 NRCS Slide Review

SOILS

Map Unit Name: **Ozaukee silt loam** Series Drainage Class: **Moderately well drained**
 Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? **No soil core taken*** Yes ☐ No ☐

Profile Description:		Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.
Depth	Depth							

Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat	Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)
--	---

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are not mapped.**
 *No wetland vegetation or hydrology present, so no soil core collected.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? No soil core taken* <input type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Remarks: **This plot is not located in wetland. No wetland vegetation or hydrology present, so no soil core collected.**
 *Wetland vegetation and hydrology are not present, so no soil core collected.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: T. Radke, A. Amelse, S. Johnsor #2: T. Schultz, R. West, M. Hildreth						Date: 08/12/08 County: Will State: Illinois Community ID: Upland Station ID: W05SE-8 Plot ID: NA																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)																																																																	
Remarks: Grassed area in cornfield; probably tiled. NRCS Slide Review site																																																																	
VEGETATION																																																																	
Dominant Species (50/20 Rule)																																																																	
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Map Unit Name: Markham silt loam Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs				Series Drainage Class: Moderately well-drained Field Observations Confirm Mapped Type? No soil core taken* <input type="checkbox"/> Yes <input type="checkbox"/> No																																																													
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Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: Upland																																																											
Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Station ID: W05SE-9																																																											
Is The Area A Potential Problem Area? (If yes, define below.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Plot ID: NA																																																											
Remarks: Bare, narrow swath through corn field is drainage area. Appears that water moves through but does not remain here. NRCS Slide Review site																																																																	
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Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)																																																																	
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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: T. Radke #2: R. Page						Date: 08/26/08 County: Will State: Illinois Community ID: Upland Station ID: W05SE-10 Plot ID: NA																																																																									
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Site: Inaugural South Suburban Airport
 Locale: W05SW1
 Date: August 15, 2009 30 minutes
 By: AECOM; S. Johnson; T. Schultz
 File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W05SW1.inv

FLORISTIC QUALITY DATA	Native	16	76.2%	Adventive	5	23.8%
16 NATIVE SPECIES	Tree	3	14.3%	Tree	2	9.5%
21 Total Species	Shrub	4	19.0%	Shrub	1	4.8%
2.4 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.9 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
9.8 NATIVE FQI	P-Forb	4	19.0%	P-Forb	1	4.8%
8.5 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.0 NATIVE MEAN W	A-Forb	1	4.8%	A-Forb	0	0.0%
-0.5 W/Adventives	P-Grass	1	4.8%	P-Grass	1	4.8%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	3	14.3%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ASTLAT	4 Aster lateriflorus	-2 FACW-	Nt P-Forb	SIDE-FLOWERING ASTER
CXVULP	2 Carex vulpinoidea	-5 OBL	Nt P-Sedge	BROWN FOX SEDGE
CONARV	0 CONVOLVULUS ARVENSIS	5 UPL	Ad P-Forb	FIELD BINDWEED
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
CYPESC	0 Cyperus esculentus	-1 [FAC+]	Nt P-Sedge	FIELD NUT SEDGE
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNTOR	4 Juncus torreyi	-3 FACW	Nt P-Forb	TORREY'S RUSH
LONMAA	0 LONICERA MAACKII	5 UPL	Ad Shrub	AMUR HONEYSUCKLE
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PRUVIR	3 Prunus virginiana	3 [FACU]	Nt Shrub	CHOKE CHERRY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
SALFRA	0 SALIX FRAGILIS	-1 FAC+	Ad Tree	CRACK WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SORNUT	5 Sorghastrum nutans	2 FACU+	Nt P-Grass	INDIAN GRASS
TRAOHI	2 Tradescantia ohiensis	2 FACU+	Nt P-Forb	COMMON SPIDERWORT
ULNAME	3 Ulmus americana	-2 FACW-	Nt Tree	AMERICAN ELM

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Site: Inaugural South Suburban Airport
 Locale: W05SW3
 Date: August 15, 2009 1 hours
 By: AECOM; A.Amelise; M.Hildreth
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W05SW3.inv

FLORISTIC QUALITY DATA	Native	26	78.8%	Adventive	7	21.2%
26 NATIVE SPECIES	Tree	3	9.1%	Tree	0	0.0%
33 Total Species	Shrub	5	15.2%	Shrub	3	9.1%
2.4 NATIVE MEAN C	W-Vine	2	6.1%	W-Vine	1	3.0%
1.9 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
12.4 NATIVE FQI	P-Forb	10	30.3%	P-Forb	0	0.0%
11.0 W/Adventives	B-Forb	0	0.0%	B-Forb	2	6.1%
-0.3 NATIVE MEAN W	A-Forb	3	9.1%	A-Forb	0	0.0%
0.0 W/Adventives	P-Grass	2	6.1%	P-Grass	1	3.0%
AVG: Faculative	A-Grass	1	3.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ASCINC	4 Asclepias incarnata	-5 OBL	Nt P-Forb	SWAMP MILKWEED
ASTNOV	4 Aster novae-angliae	-3 FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSAD	2 Aster sagittifolius drummondii	3 [FACU]	Nt P-Forb	DRUMMOND'S ASTER
BARVUL	0 BARBAREA VULGARIS	0 FAC	Ad B-Forb	YELLOW ROCKET
CIRLUC	1 Circaea lutetiana canadensis	3 FACU	Nt P-Forb	ENCHANTER'S NIGHTSHADE
CONSEP	1 Convolvulus sepium	0 FAC	Nt P-Forb	HEDGE BINDWEED
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
CRAMOL	2 Crataegus mollis	4 FACU-	Nt Tree	DOWNY HAWTHORN
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
GALAPA	1 Galium aparine	3 FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELHEL	5 Heliopsis helianthoides	5 UPL	Nt P-Forb	FALSE SUNFLOWER
LONTAT	0 LONICERA TATARICA	5 [UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
PARQUI	2 Parthenocissus quinquefolia	1 FAC-	Nt W-Vine	VIRGINIA CREEPER
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PHRAUS	1 Phragmites australis	-4 FACW+	Nt P-Grass	COMMON REED
PILPUM	5 Pilea pumila	-3 FACW	Nt A-Forb	CLEARWEED
POLGVI	2 Polygonum virginianum	0 FAC	Nt P-Forb	WOODLAND KNOTWEED
RHAFRA	0 RHAMNUS FRANGULA	-1 FAC+	Ad Shrub	GLOSSY BUCKTHORN
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RIBAME	7 Ribes americanum	-3 FACW	Nt Shrub	WILD BLACK CURRANT
ROSMUL	0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE

RUBOCC	2	Rubus occidentalis	5	UPL	Nt Shrub	BLACK RASPBERRY
SALDIS	2	Salix discolor	-3	FACW	Nt Shrub	PUSSY WILLOW
SAMCAN	1	Sambucus canadensis	-2	FACW-	Nt Shrub	ELDERBERRY
SOLDUL	0	SOLANUM DULCAMARA	0	FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLGRG	4	Solidago graminifolia	-2	FACW-	Nt P-Forb	COMMON GRASS-LEAVED
GOLDENROD						
ULMAME	3	Ulmus americana	-2	FACW-	Nt Tree	AMERICAN ELM
VERURU	5	Verbena urticifolia	5	UPL	Nt P-Forb	HAIRY WHITE VERVAIN

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Remarks: This plot is not located in wetland.																																																																	

Site: Inaugural South Suburban Airport
 Locale: W05SW6
 Date: August 25, 2008 30 minutes
 By: AECOM: A. Amelse; M. Hildreth
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W05SW6.inv

FLORISTIC QUALITY DATA	Native	0	0.0%	Adventive	1	100.0%
0 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
1 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
5.0 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	1	100.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ZEAMAY	0 ZEA MAYS	5 UPL	Ad A-Grass	CORN

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Robyn West						Date: 08/26/08 County: Will State: Illinois Community ID: FW Station ID: W05SW-6 Plot ID: S1																																																											
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WETLAND DETERMINATION																																																																	
Hydrophytic Vegetation Present? _____ Yes _____ X No					Hydric Soils Present? _____ X Yes _____ No																																																												
Wetland Hydrology Present? _____ X Yes _____ No					Is This Sampling Point Within A Wetland? _____ X Yes _____ No																																																												
Remarks: This plot is located in wetland. Hydric soils and wetland hydrology are present, so this area would likely support a dominance of hydrophytic vegetation if it were not actively cropped.																																																																	

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)										
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Robyn West						Date: 08/26/08 County: Will State: Illinois Community ID: FW Station ID: W05SW-6 Plot ID: S2				
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: Corn crop showing signs of stress.				
VEGETATION										
Dominant Species (50/20 Rule)										
<u>Species Name</u> <u>Ind. Status</u> <u>Stratum</u> <u>% Cover</u>				<u>Species Name</u> <u>Ind. Status</u> <u>Stratum</u> <u>% Cover</u>						
1.	Zea mays			UPL	HERB	70	7.	--		
2.	--			--	--	--	8.	--		
3.	--			--	--	--	9.	--		
4.	--			--	--	--	10.	--		
5.	--			--	--	--	11.	--		
6.	--			--	--	--	12.	--		
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-):							0%			
Remarks: Hydrophytic vegetation not dominant.										
HYDROLOGY										
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other _____ No Recorded Data Available					Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)					
Field Observations: Depth of Surface Water: _____ NA (in.) Depth to Free Water: _____ NA (in.) Depth to Saturated Soil: _____ NA (in.)					Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. Presence of drainageway and stressed crop shows that water is here during the growing season long enough to affect vegetation.					
SOILS										
Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroder Series Drainage Class: Moderately well drained										
Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? _____ Yes _____ X No										
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Depth	Depth									
0	6	Ap	10YR	3/2	NA	NA	NA	NA	clay loam, dry, firm	
6	10	Bt	2.5Y	5/2	10YR	4/6	many	prominent	clay, dry, firm	
refusal at 10"										
Hydric Soil Indicators ² :										
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Remarks: Hydric soils are present. Refusal at 10" from hard clay layer. Depleted matrix likely extends down another 2", so hydric soil indicators A11 and F3 would be met.										
WETLAND DETERMINATION										
Hydrophytic Vegetation Present? _____ Yes _____ X No					Hydric Soils Present? _____ X Yes _____ No					
Wetland Hydrology Present? _____ X Yes _____ No					Is This Sampling Point Within A Wetland? _____ X Yes _____ No					
Remarks: This plot is located in a wetland. Crop stress and hydric soils found in this plot, and NRCS results, indicate that hydrology is present during a the growing season. With hydric soils and wetland hydrology present, this area would likely support dominant hydrophytic vegetation if it were not actively cropped.										

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)									
Project/Site: Inaugural South Suburban Airport						Date: 08/26/08			
Applicant/Owner: Illinois Department of Transportation						County: Will			
Investigator #1: Ann Amelse #2: Robyn West						State: Illinois			
Do Normal Circumstances Exist On The Site? <u> </u> Yes <u> </u> X No						Community ID: Upland			
Is The Site Significantly Disturbed (Atypical Situation)? <u> </u> Yes <u> </u> X No						Station ID: W05SW-6			
Is The Area A Potential Problem Area? <u> </u> Yes <u> </u> X No (If yes, define below.)						Plot ID: S3			
Remarks: Successfully cropped corn field									
VEGETATION									
Dominant Species (50/20 Rule)									
<u>Species Name</u> <u>Ind. Status</u> <u>Stratum</u> <u>% Cover</u> 1. <i>Zea mays</i> UPL HERB 70 2. -- -- -- -- 3. -- -- -- -- 4. -- -- -- -- 5. -- -- -- -- 6. -- -- -- --				<u>Species Name</u> <u>Ind. Status</u> <u>Stratum</u> <u>% Cover</u> 7. -- -- -- -- 8. -- -- -- -- 9. -- -- -- -- 10. -- -- -- -- 11. -- -- -- -- 12. -- -- -- --					
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0%									
Remarks: Hydrophytic vegetation not dominant.									
HYDROLOGY									
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <u> </u> Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos <u> </u> Other <input type="checkbox"/> No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: <u> </u> Inundated <u> </u> Saturated in Upper 12 Inches <u> </u> Water Marks <u> </u> Drift Lines <u> </u> Sediment Deposits <u> </u> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <u> </u> Oxidized Root Channels In Upper 12 Inches <u> </u> Water-Stained Leaves <u> </u> Local Soil Survey Data <u> </u> FAC-Neutral Test <u> </u> Other (Explain in Remarks)				
Field Observations: Depth of Surface Water: <u> </u> NA (in.) Depth to Free Water: <u> </u> NA (in.) Depth to Saturated Soil: <u> </u> NA (in.)									
Remarks: Wetland hydrology not present. Aerial photos used for NRCS slide review.									
SOILS									
Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroder Series Drainage Class: Moderately well drained									
Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? <u> </u> Yes <u> </u> X No									
Profile Description:									
Top	Bottom		Matrix Color		Mottle Colors		Mottle		Texture, moisture, consistency, organic material,
Depth	Depth	Horizon	(Munsell Moist):		(Munsell Moist):		Abundance/Contrast		and other soil characteristics.
0	10	Ap	10YR	3/2	NA	NA	NA	NA	silty clay loam, dry, firm
10	12	Bt	10YR	4/3	5Y	5/2	common	prominent	silty clay loam, dry, firm
refusal at 12"									
Hydric Soil Indicators ² :									
<u> </u> (A1) Histosol <u> </u> (A2) Histic Epipedon <u> </u> (A3) Black Histic <u> </u> (A4) Hydrogen Sulfide <u> </u> (A5) Stratified Layers <u> </u> (A10) 2 cm Muck <u> </u> (A11) Depleted Below Dark Surface <u> </u> (A12) Thick Dark Surface <u> </u> (S1) Sandy Mucky Mineral <u> </u> (S3) 5 cm Mucky Peat or Peat			<u> </u> (S4) Sandy Gleyed Matrix <u> </u> (S5) Sandy Redox <u> </u> (S6) Stripped Matrix <u> </u> (F1) Loamy Mucky Mineral <u> </u> (F2) Loamy Gleyed Matrix <u> </u> (F3) Depleted Matrix <u> </u> (F6) Redox Dark Surface <u> </u> (F7) Depleted Dark Surface <u> </u> (F8) Redox Depressions			Indicators for Problematic Hydric Soils ¹ : <u> </u> (A16) Coast Prairie Redox <u> </u> (F12) Iron-Manganese Masses <u> </u> Other (Explain in Remarks)			
¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)									
Remarks: Hydric soils not present.									
WETLAND DETERMINATION									
Hydrophytic Vegetation Present? <u> </u> Yes <u> </u> X No					Hydric Soils Present? <u> </u> Yes <u> </u> X No				
Wetland Hydrology Present? <u> </u> Yes <u> </u> X No					Is This Sampling Point Within A Wetland? <u> </u> Yes <u> </u> X No				
Remarks: This plot is not located in wetland.									

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Robyn West						Date: 08/26/08 County: Will State: Illinois Community ID: Upland Station ID: W05SW-7 Plot ID: S1																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Probable field tile location. One photo taken																																																																		
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Remarks: This plot is not located in a wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and crop does not appear to be stressed.																																																																								

Site: Inaugural South Suburban Airport
 Locale: W05SW9
 Date: August 25, 2008 30 minutes
 By: AECOM: A. Amelse; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W05SW9.inv

FLORISTIC QUALITY DATA	Native	11	84.6%	Adventive	2	15.4%
11 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
13 Total Species	Shrub	2	15.4%	Shrub	0	0.0%
2.7 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.3 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
9.0 NATIVE FQI	P-Forb	3	23.1%	P-Forb	0	0.0%
8.3 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-3.1 NATIVE MEAN W	A-Forb	2	15.4%	A-Forb	0	0.0%
-3.2 W/Adventives	P-Grass	0	0.0%	P-Grass	2	15.4%
AVG: Fac. Wetland	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	3	23.1%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	1	7.7%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
CXSCOP	7 Carex scoparia	-3 FACW	Nt P-Sedge	LANCE-FRUITED OVAL SEDGE
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
EQUARV	0 Equisetum arvense	0 FAC	Cryptogam	HORSETAIL
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SCICYP	6 Scirpus cyperinus	-5 OBL	Nt P-Sedge	WOOL GRASS
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport	Date: 08/25/08
Applicant/Owner: Illinois Department of Transportation	County: Will
Investigator #1: Ann Amelse #2: Robyn West	State: Illinois
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: PEM
Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Station ID: W05SW-9
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	Plot ID: S1

Remarks:

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Scirpus atrovirens</i>	OBL	HERB	10	7. --	--	--	--
2. <i>Scirpus cyperinus</i>	OBL	HERB	10	8. --	--	--	--
3. <i>Agrostis alba</i>	FACW	HERB	30	9. --	--	--	--
4. <i>Carex scoparia</i>	FACW	HERB	15	10. --	--	--	--
5. <i>Aster lateriflorus</i>	FACW-	HERB	15	11. --	--	--	--
6. <i>Carex bebbii</i>	OBL	HERB	15	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **100%**

Remarks: **Hydrophytic vegetation is dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other _____ No Recorded Data Available	Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input checked="" type="checkbox"/> Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is present.**

Aerial photos used for NRCS slide review.

SOILS

Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes				Series Drainage Class: poorly drained			
Taxonomy (Subgroup): Typic Endoaquolls				Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Profile Description:							
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	
Depth	Depth						
0	7	A	10YR 2/1	NA NA	NA NA	oxidized rhizospheres mucky silt loam, moist, friable	
7	10	Bt	10YR 3/1	NA NA	NA NA	silty clay loam, moist, friable	
10	12	Btg1	2.5Y 4.5/1	10Y 5/1 10YR 4/6	common prominent common prominent	clay, moist, firm	
12	20	Btg2	10Y 5/1	10YR 4/6	many prominent	clay, moist, firm	

Hydric Soil Indicators²:

- _____ (A1) Histosol
- _____ (A2) Histic Epipedon
- _____ (A3) Black Histic
- _____ (A4) Hydrogen Sulfide
- _____ (A5) Stratified Layers
- _____ (A10) 2 cm Muck
- ☒ (A11) Depleted Below Dark Surface
- _____ (A12) Thick Dark Surface
- _____ (S1) Sandy Mucky Mineral
- _____ (S3) 5 cm Mucky Peat or Peat

- _____ (S4) Sandy Gleyed Matrix
- _____ (S5) Sandy Redox
- _____ (S6) Stripped Matrix
- ☒ (F1) Loamy Mucky Mineral
- _____ (F2) Loamy Gleyed Matrix
- _____ (F3) Depleted Matrix
- _____ (F6) Redox Dark Surface
- _____ (F7) Depleted Dark Surface
- _____ (F8) Redox Depressions

Indicators for Problematic Hydric Soils¹:

- _____ (A16) Coast Prairie Redox
- _____ (F12) Iron-Manganese Masses
- _____ Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Remarks: **This plot is located in a wetland.**

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																			
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Robyn West						Date: 08/25/08 County: Will State: Illinois Community ID: Upland Station ID: W05SW-9 Plot ID: S2																																													
Do Normal Circumstances Exist On The Site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)																																																			
Remarks: Successful corn crop.																																																			
VEGETATION																																																			
Dominant Species (50/20 Rule)																																																			
<u>Species Name</u> <u>Ind. Status</u> <u>Stratum</u> <u>% Cover</u>				<u>Species Name</u> <u>Ind. Status</u> <u>Stratum</u> <u>% Cover</u>																																															
1.	<i>Zea mays</i>			UPL	HERB	75	7.	--																																											
2.	--			--	--	--	8.	--																																											
3.	--			--	--	--	9.	--																																											
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Remarks: Hydrophytic vegetation is not dominant.																																																			
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Remarks: This plot is not located in wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and crop does not appear to be stressed.																																																			

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Project/Site: Inaugural South Suburban Airport						Date: 08/26/08																																																																									
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Investigator #1: Ann Amelse #2: Robyn West						State: Illinois																																																																									
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No						Community ID: Upland																																																																									
Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No						Station ID: W05SW-10																																																																									
Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Plot ID: S1																																																																									
Remarks: Plowed field, no vegetation																																																																															
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Dominant Species (50/20 Rule)																																																																															
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Remarks: Hydric soils not present. Soil profile does not quite match A12.																																																																															
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Appendix E

Section Will 04

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
W04SE-1a-S2	22	No	0.0	
W04SE-1aU-S1	22	Yes		
W04SE-1b-S2	20	Yes	13.3	
W04SE-1bU-S1	21	Yes		
W04SE-2a	NA	NA	8.9	W04SE-2 soil points are for areas a&b
W04SE-2b	NA	NA	0.7	W04SE-2 soil points are for areas a&b
W04SE-2-S2	20	Yes		
W04SE-2U-S1	20	Yes		
UW04SE-4	NA	NA	NA	Photo NW
W04SE-5-S1	20	Yes	0.0	
W04SE-5U-S2	21	Yes		
UW04SE-6	NA	NA	NA	Photo W
UW04SE-7	NA	NA	NA	Photo E
UW04SE-8	NA	NA	NA	Photo E
UW04SE-9-S3	20	No	NA	
W04SE-10-S1	20	Yes	0.0	
W04SE-10U-S2	20	Yes		
UW04SE-11	NA	NA	NA	Photo E
UW04SE-12	NA	NA	NA	Photo W
UW04SE-13	NA	NA	NA	Photo W
W04SE-14	NA	NA	5.3	No data form, tiled drainageway, tributary to BWC
W04SE-15-S1	23	Yes	6.4	
W04SE-15U-S2	20	No		
UW04SE-16	31	No	NA	
W04SW-1a	NA	NA	15.7	W04SW-1 soil points are for areas a, b & c
W04SW-1b&c	NA	NA	6.3	W04SW-1 soil points are for areas a, b & c
W04SW-1-S1	20	Yes		
W04SW-1U-S2	20	Yes	2.3	
W04SW-2-S1	22	Yes		
W04SW-2U-S2	21	No	20.6	
W04SW-3a-S1	20	Yes		
W04SW-3aU-S2	20	Yes	0.0	no soil core
W04SW-3b-S1	NA	NA		
UW04SW-4	NA	NA	NA	Photo S
UW04SW-5	NA	NA	NA	Photo SE
UW04SW-6	20	No	NA	
W04SW-7-S1	19	Yes	0.0	
W04SW-7U-S2	20	No		
W04SW-8-S1	19	Yes	0.0	
W04SW-8U-S2	20	Yes		cornfield
W04SW-9-S1	20	Yes	7.8	
W04SW-9U-S2	20	No		
W04SW-10-S2	20	Yes	10.6	
W04SW-10U-S1	20	No		tiled drainage way
W04SW-10U-S3	20	No		drainageway

Appendix E Section Will 04

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
UW04SW-11	20	No	NA	bare area in field
W04SW-12-S1	20	Yes	0.8	tilled drainageway
W04SW-12-S2	20	Yes		
UW04SW-13	NA	NA	NA	Photo E
W04SW-14-S1	22	Yes	4.9	
W04SW-14U-S2	24	Yes		
BWC-W04a	NA	NA	12.4	BWC-W04 soil points are for areas a, b & c
BWC-W04b	NA	NA	7.2	BWC-W04 soil points are for areas a, b & c
BWC-W04c	NA	NA	1.5	BWC-W04 soil points are for areas a, b & c
BWC-W04-S1	20	Yes	NA	
BWC-W04U-S2	20	No	NA	

NA = not applicable

Site: Inaugural South Suburban Airport
 Locale: W04SE1a
 Date: October 6, 2008 1 hours
 By: AECOM: T.Radke; R.Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE1a.inv

FLORISTIC QUALITY DATA	Native	2	28.6%	Adventive	5	71.4%
2 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
7 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	2	28.6%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.0 NATIVE MEAN W	A-Forb	1	14.3%	A-Forb	0	0.0%
1.6 W/Adventives	P-Grass	0	0.0%	P-Grass	3	42.9%
AVG: Faculative	A-Grass	1	14.3%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
TRIPRA	0 TRIFOLIUM PRATENSE	5 UPL	Ad P-Forb	RED CLOVER

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. Page						Date: 10/06/08 County: Will State: Illinois Community ID: PEM Station ID: W04SE-1a Plot ID: S2																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Tiled drainageway adjacent to excavated, channelized waterway (Black Walnut Creek)																																																																		
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Map Unit Name: Drummer silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? _____ Yes <input checked="" type="checkbox"/> No																																																																								
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Remarks: Hydric soils are present. Strong hydric indicators and evidence of soil profile disturbance																																																																								
WETLAND DETERMINATION																																																																								
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Remarks: This plot is located in wetland. Delineated wetland area includes only the wettest central portion of tiled drainageway.																																																																								

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Project/Site: Inaugural South Suburban Airport						Date: 10/06/08																																																											
Applicant/Owner: Illinois Department of Transportation						County: Will																																																											
Investigator #1: T. Radke #2: R. Page						State: Illinois																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: Upland																																																											
Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Station ID: W04SE-1a																																																											
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: S1																																																											
Remarks: Tiled drainageway adjacent to an excavated, channelized waterway (Black Walnut Creek).																																																																	
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0%																																																																	
Remarks: Hydrophytic vegetation is not dominant.																																																																	
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Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)																																																																	
Remarks: Wetland hydrology is not present. Field tile installation within last five years; tile effectively alters hydrology.																																																																	
SOILS																																																																	
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Taxonomy (Subgroup): Typic Endoaquolls						Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																											
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Remarks: Hydric soils are present. Soil profile appears to be disturbed, probably from tile installation																																																																	
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Site: Inaugural South Suburban Airport
 Locale: W04SE1b
 Date: October 6, 2008 2 hours
 By: AECOM: T.Radke; R.Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE1b.inv

FLORISTIC QUALITY DATA	Native	26	81.3%	Adventive	6	18.8%
26 NATIVE SPECIES	Tree	2	6.3%	Tree	0	0.0%
32 Total Species	Shrub	1	3.1%	Shrub	0	0.0%
2.6 NATIVE MEAN C	W-Vine	1	3.1%	W-Vine	0	0.0%
2.1 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
13.3 NATIVE FQI	P-Forb	13	40.6%	P-Forb	1	3.1%
12.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.5 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	1	3.1%
-2.0 W/Adventives	P-Grass	4	12.5%	P-Grass	3	9.4%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	1	3.1%
	P-Sedge	4	12.5%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	1	3.1%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
APOSIB	2 Apocynum sibiricum	-1 FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASCSYR	0 Asclepias syriaca	5 UPL	Nt P-Forb	COMMON MILKWEED
CXCRIS	4 Carex cristatella	-4 FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CYPESC	0 Cyperus esculentus	-1 [FAC+]	Nt P-Sedge	FIELD NUT SEDGE
EPICOL	3 Epilobium coloratum	-5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
EQUARV	0 Equisetum arvense	0 FAC	Cryptogam	HORSETAIL
FRAVIR	1 Fragaria virginiana	1 FAC-	Nt P-Forb	WILD STRAWBERRY
GEULAT	2 Geum laciniatum trichocarpum	-3 FACW	Nt P-Forb	ROUGH AVENS
GLYSTR	4 Glyceria striata	-3 [FACW]	Nt P-Grass	FOWL MANNA GRASS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi	0 [FAC]	Nt P-Forb	DUDLEY'S RUSH
JUNTOR	4 Juncus torreyi	-3 FACW	Nt P-Forb	TORREY'S RUSH
LEEORY	4 Leersia oryzoides	-5 OBL	Nt P-Grass	RICE CUT GRASS
LEE VIR	7 Leersia virginica	-3 FACW	Nt P-Grass	WHITE GRASS
LYCAME	5 Lycopodium americanus	-5 OBL	Nt P-Forb	COMMON WATER HOREHOUND
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PHRAUS	1 Phragmites australis	-4 FACW+	Nt P-Grass	COMMON REED
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
SALAMY	5 Salix amygdaloides	-3 FACW	Nt Tree	PEACH-LEAVED WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SCICYP	6 Scirpus cyperinus	-5 OBL	Nt P-Sedge	WOOL GRASS
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL

SOLALT	1	<i>Solidago altissima</i>	3	FACU	Nt P-Forb	TALL GOLDENROD
SOLGRG	4	<i>Solidago graminifolia</i>	-2	FACW-	Nt P-Forb	COMMON GRASS-LEAVED
GOLDENROD						
TYPANG	1	<i>Typha angustifolia</i>	-5	OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
TYPLAT	1	<i>Typha latifolia</i>	-5	OBL	Nt P-Forb	BROAD-LEAVED CATTAIL
VITRIP	2	<i>Vitis riparia</i>	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE
XANSTR	0	<i>XANTHIUM STRUMARIUM</i>	0	FAC	Ad A-Forb	COCKLEBUR

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. Page						Date: 10/06/08 County: Will State: Illinois Community ID: Wetland Complex Station ID: W04SE-1b Plot ID: S2																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: A tiled, excavated drainageway runs through area.																																																											
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Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)				Remarks: Wetland hydrology is present. Landscape position---low point adjacent to cornfield is uncultivated.																																																													
SOILS																																																																	
Map Unit Name: Drummer silty clay loam Taxonomy (Subgroup): Typic Haplaquoll						Series Drainage Class: Poorly drained Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																											
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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. Page						Date: 10/06/08 County: Will State: Illinois Community ID: Upland Station ID: W04SE-1b Plot ID: S1																																																											
Do Normal Circumstances Exist On The Site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)																																																																	
Remarks: Point is in corn field An excavated, tiled drainageway is adjacent																																																																	
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Dominant Species (50/20 Rule)																																																																	
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Successful corn crop.																																																																	
HYDROLOGY																																																																	
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos <input type="checkbox"/> Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)																																																												
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)																																																																	
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Remarks: Hydric soils are present. Soil profile has a buried horizon of darker soil below top layer.						² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																											
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Remarks: This plot is not located in wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and hydrophytic vegetation is not dominant.																																																																	

Site: Inaugural South Suburban Airport
 Locale: W04SE2a
 Date: October 6, 2008 1 hours
 By: AECOM; T. Radke; R. Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE2a.inv

FLORISTIC QUALITY DATA	Native	19	70.4%	Adventive	8	29.6%
19 NATIVE SPECIES	Tree	3	11.1%	Tree	1	3.7%
27 Total Species	Shrub	4	14.8%	Shrub	0	0.0%
2.1 NATIVE MEAN C	W-Vine	2	7.4%	W-Vine	1	3.7%
1.4 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
8.9 NATIVE FQI	P-Forb	5	18.5%	P-Forb	2	7.4%
7.5 W/Adventives	B-Forb	0	0.0%	B-Forb	1	3.7%
-0.5 NATIVE MEAN W	A-Forb	4	14.8%	A-Forb	0	0.0%
-0.4 W/Adventives	P-Grass	1	3.7%	P-Grass	2	7.4%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	1	3.7%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACARHO	0 Acalypha rhomboidea	3 FACU	Nt A-Forb	THREE-SEEDED MERCURY
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PILPUM	5 Pilea pumila	-3 FACW	Nt A-Forb	CLEARWEED
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1 Prunus serotina	3 FACU	Nt Tree	WILD BLACK CHERRY
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SOLDUL	0 SOLANUM DULCAMARA	0 FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SONULI	0 SONCHUS ULIGINOSUS	1 FAC-	Ad P-Forb	COMMON SOW THISTLE
TYPLAT	1 Typha latifolia	-5 OBL	Nt P-Forb	BROAD-LEAVED CATTAIL
VERURU	5 Verbena urticifolia	5 UPL	Nt P-Forb	HAIRY WHITE VERVAIN

VITRIP 2 *Vitis riparia*

-2 FACW- Nt W-Vine RIVERBANK GRAPE

Site: Inaugural South Suburban Airport
 Locale: W04SE2b
 Date: October 7, 2008 1 hours
 By: AECOM: T.Radke; R.Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE2b.inv

FLORISTIC QUALITY DATA	Native	2	22.2%	Adventive	7	77.8%
2 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
9 Total Species	Shrub	1	11.1%	Shrub	0	0.0%
0.5 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.1 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.7 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.3 W/Adventives	B-Forb	0	0.0%	B-Forb	1	11.1%
-3.0 NATIVE MEAN W	A-Forb	1	11.1%	A-Forb	0	0.0%
-0.3 W/Adventives	P-Grass	0	0.0%	P-Grass	4	44.4%
AVG: Fac. Wetland	A-Grass	0	0.0%	A-Grass	2	22.2%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL

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Remarks: This plot is not located in a wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and hydrophytic vegetation is not dominant.																																																																	

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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. Page						Date: 10/06/08 County: Will State: Illinois Community ID: Upland Station ID: W04SE-4 Plot ID: NA																																																							
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Grassed, tiled drainageway																																																							
VEGETATION Dominant Species (50/20 Rule) <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind.Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr><td>1. <i>Trifolium pratense</i></td><td>UPL</td><td>HERB</td><td>--</td><td>7. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>2. <i>Festuca elatior</i></td><td>UPL</td><td>HERB</td><td>--</td><td>8. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>3. <i>Bromus inermis</i></td><td>UPL</td><td>HERB</td><td>--</td><td>9. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>4. <i>Daucus carota</i></td><td>UPL</td><td>HERB</td><td>--</td><td>10. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>5. --</td><td>--</td><td>--</td><td>--</td><td>11. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>6. --</td><td>--</td><td>--</td><td>--</td><td>12. --</td><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>										Species Name	Ind.Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover	1. <i>Trifolium pratense</i>	UPL	HERB	--	7. --	--	--	--	2. <i>Festuca elatior</i>	UPL	HERB	--	8. --	--	--	--	3. <i>Bromus inermis</i>	UPL	HERB	--	9. --	--	--	--	4. <i>Daucus carota</i>	UPL	HERB	--	10. --	--	--	--	5. --	--	--	--	11. --	--	--	--	6. --	--	--	--
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentages not recorded. Bromus inermis is dominant.						Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)																																																							
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SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? No soil core taken* Yes <input type="checkbox"/> No <input type="checkbox"/>																																																													
Profile Description: <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.7em;"> <thead> <tr> <th style="width: 5%;">Top</th> <th style="width: 5%;">Bottom</th> <th style="width: 10%;">Horizon</th> <th style="width: 10%;">Matrix Color (Munsell Moist):</th> <th style="width: 10%;">Mottle Colors (Munsell Moist):</th> <th style="width: 10%;">Mottle Abundance/Contrast</th> <th style="width: 50%;">Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.																																													
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Hydric Soil Indicators ² : <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <input type="checkbox"/> (A1) Histosol <input type="checkbox"/> (A2) Histic Epipedon <input type="checkbox"/> (A3) Black Histic <input type="checkbox"/> (A4) Hydrogen Sulfide <input type="checkbox"/> (A5) Stratified Layers <input type="checkbox"/> (A10) 2 cm Muck <input type="checkbox"/> (A11) Depleted Below Dark Surface <input type="checkbox"/> (A12) Thick Dark Surface <input type="checkbox"/> (S1) Sandy Mucky Mineral <input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat </div> <div style="width: 30%;"> <input type="checkbox"/> (S4) Sandy Gleyed Matrix <input type="checkbox"/> (S5) Sandy Redox <input type="checkbox"/> (S6) Stripped Matrix <input type="checkbox"/> (F1) Loamy Mucky Mineral <input type="checkbox"/> (F2) Loamy Gleyed Matrix <input type="checkbox"/> (F3) Depleted Matrix <input type="checkbox"/> (F6) Redox Dark Surface <input type="checkbox"/> (F7) Depleted Dark Surface <input type="checkbox"/> (F8) Redox Depressions </div> <div style="width: 30%;"> <input type="checkbox"/> (A16) Coast Prairie Redox <input type="checkbox"/> (F12) Iron-Manganese Masses <input type="checkbox"/> Other (Explain in Remarks) </div> </div>						Indicators for Problematic Hydric Soils ¹ : ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																							
Remarks: Hydric soils mapped. *Vegetation and hydrology do not meet wetland criteria, so no soil core taken																																																													
WETLAND DETERMINATION Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? No soil core taken* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																													
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Site: Inaugural South Suburban Airport
 Locale: W04SE5
 Date: October 6, 2008 1 hours
 By: AECOM: T.Radke; R.Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE5.inv

FLORISTIC QUALITY DATA	Native	0	0.0%	Adventive	1	100.0%
0 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
1 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	1	100.0%
5.0 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
GLYNMX	0	GLYCINE MAX	5	UPL	Ad A-Forb	SOY BEAN

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																				
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. Page						Date: 10/06/08 County: Will State: Illinois Community ID: PEM Station ID: W04SE-5 Plot ID: S1																																																														
Do Normal Circumstances Exist On The Site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Soybean field; vegetation parameter altered; field tile present.																																																														
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Crop field. Normal circumstances not present. Per farmer, beans planted where too wet to plant in spring.						HYDROLOGY <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <div style="margin-left: 20px;"> <input type="checkbox"/> Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos <input type="checkbox"/> Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available </div> </div> <div style="width: 50%;"> Wetland Hydrology Indicators: <input type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks) </div> </div>																																																														
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)										Remarks: Wetland hydrology is present. Strong evidence of ponding. Per farmer, beans used where spring inundation required late planting. NRCS review.																																																										
SOILS Map Unit Name: Drummer silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Haplaquoll Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																				
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0	21	A1	10YR 2/1	10YR 4/6	few distinct	Silty clay loam, moist, friable																																																									
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_____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface <input checked="" type="checkbox"/> (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat					_____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions																																																										
_____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)					¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																										
Remarks: Hydric soils are present.																																																															
WETLAND DETERMINATION																																																															
Hydrophytic Vegetation Present? _____ Yes _____ X No Wetland Hydrology Present? _____ Yes _____ X No					Hydric Soils Present? _____ X Yes _____ No Is This Sampling Point Within A Wetland? _____ Yes _____ X No																																																										
Remarks: This plot is not located in wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and hydrophytic vegetation is not dominant.																																																															

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																															
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. Page						Date: 10/06/08 County: Will State: Illinois Community ID: Upland Station ID: W04SE-6 Plot ID: NA																																																									
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: Corn field with successful crop.																																																									
VEGETATION Dominant Species (50/20 Rule)																																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Species Name</th> <th style="width: 10%;">Ind.Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr><td>1. Zea mays</td><td>UPL</td><td>HERB</td><td>100</td></tr> <tr><td>2. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>3. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>4. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>5. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>6. --</td><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>				Species Name	Ind.Status	Stratum	% Cover	1. Zea mays	UPL	HERB	100	2. --	--	--	--	3. --	--	--	--	4. --	--	--	--	5. --	--	--	--	6. --	--	--	--	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr><td>7. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>8. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>9. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>10. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>11. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>12. --</td><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>				Species Name	Ind. Status	Stratum	% Cover	7. --	--	--	--	8. --	--	--	--	9. --	--	--	--	10. --	--	--	--	11. --	--	--	--	12. --	--	--	--
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant.																																																															
HYDROLOGY																																																															
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)																																																										
Field Observations: Depth of Surface Water: _____ NA (in.) Depth to Free Water: _____ NA (in.) Depth to Saturated Soil: _____ NA (in.)					Remarks: Wetland hydrology is not present.																																																										
SOILS Map Unit Name: Jasper loam Series Drainage Class: Well drained Taxonomy (Subgroup): Typic Argiudolls Field Observations Confirm Mapped Type? no soil core collected* Yes _____ No _____																																																															
Profile Description:																																																															
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.																																																									
Hydric Soil Indicators ² :																																																															
_____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat					_____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions																																																										
Indicators for Problematic Hydric Soils ¹ : _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)																																																															
Remarks: Hydric soils not mapped. *Vegetation and hydrology do not meet wetland criteria, so no soil core collected.																																																															
WETLAND DETERMINATION																																																															
Hydrophytic Vegetation Present? _____ Yes _____ X No Wetland Hydrology Present? _____ Yes _____ X No					Hydric Soils Present? No soil core taken* _____ Yes _____ No Is This Sampling Point Within A Wetland? _____ Yes _____ X No																																																										
Remarks: This plot is not located in wetland. *Vegetation and hydrology do not meet wetland criteria; no soil core taken.																																																															

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/11/2009Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W04SE-7Investigator(s): T. Radke; M. Hildreth Section, Township, Range: Section 4; T33N; R13ELandform (hillside, terrace, etc.): Drainageway Local relief (concave, convex, none): concaveSlope %: 2 Lat: 41.37477065 Long: -87.72886977 Datum: NAD83 Illinois EastSoil Unit Name: Markham silt loam NWI Classification: UPLAre climatic / hydrologic conditions on the site typical for this time of year? Yes X No Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u> </u>	No <u>X</u>	no core	Is the Sampling Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soils Present?	Yes <u> </u>	No <u>*</u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			
Remarks: Grassed drainageway. *Upland vegetation dominant; no soil core taken					

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1. <u>--</u>					
2. <u>--</u>					
3. <u>--</u>					
4. <u>--</u>					
Total Cover: <u> </u>					Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum (Plot size: <u> </u>)					
1. <u>--</u>					
2. <u>--</u>					
3. <u>--</u>					
Total Cover: <u> </u>					
Herb Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Indicators: <u> </u> Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Bromus inermis</u>		<u>80</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Festuca elatior</u>		<u>20</u>	<u>N</u>	<u>FACU</u>	
3. <u>--</u>					
4. <u>--</u>					
5. <u>--</u>					
6. <u>--</u>					
7. <u>--</u>					
8. <u>--</u>					
9. <u>--</u>					
Total Cover: <u>100</u>					
Woody Vine Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u>--</u>					
2. <u>--</u>					
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

Sampling Point: **W04SE-7**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? * Yes _____ No _____

Remarks:

Hydric soils not mapped.

*Soil core not collected, because wetland vegetation and hydrology absent.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** Depth (inches): _____
 Water Table Present? Yes _____ No **X** Depth (inches): _____
 Saturation Present? Yes _____ No **X** Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Grassed waterway dominated by upland veg between cultivated fields. Area is an NRCS 2008 polygon.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/11/2009
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W04SE-8
 Investigator(s): T. Radke; M. Hildreth Section, Township, Range: Section 4; T33N; R13E
 Landform (hillside, terrace, etc.): slope Local relief (concave, convex, none): Concave
 Slope %: 5 Lat: 41.37276701 Long: -87.72997929 Datum: NAD83 Illinois East
 Soil Unit Name: Ozaukee silty clay loam, 6-12% slopes--eroded NWI Classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Hydric Soils Present? Yes <u> </u> No <u>*</u>	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	No core	Is the Sampling Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: *Soil core not taken because, wetland vegetation and wetland hydrology are absent. Plot is on steep slope.				

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1. <u>--</u>					
2. <u>--</u>					
3. <u>--</u>					
4. <u>--</u>					
Total Cover: <u> </u>					Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u> </u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum (Plot size: <u> </u>)					
1. <u>--</u>					
2. <u>--</u>					
3. <u>--</u>					
Total Cover: <u> </u>					
Herb Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Indicators: <u> </u> Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Bromus inermis</u>		<u>100</u>	<u>Y</u>	<u>UPL</u>	
2. <u> </u>					
3. <u>--</u>					
4. <u>--</u>					
5. <u>--</u>					
6. <u>--</u>					
7. <u>--</u>					
8. <u>--</u>					
9. <u>--</u>					
Total Cover: <u>100</u>					
Woody Vine Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u>--</u>					
2. <u>--</u>					
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.) Grassy patch at top/side slope of steep hill. This is probably a Highly-erodable Land (HEL) conservation feature.					

SOIL

Sampling Point: **W04SE-8**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present?* Yes _____ No _____

Remarks:

Upland soil mapped. *Wetland vegetation and hydrology are not present, so no soil core collected.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** Depth (inches): _____
 Water Table Present? Yes _____ No **X** Depth (inches): _____
 Saturation Present? Yes _____ No **X** Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Area is at top/side-slope of steep hill.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/11/2009
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W04SE-9 SC-3
 Investigator(s): T. Radke; M. Hildreth Section, Township, Range: Section 4; T33N; R13E
 Landform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): Concave
 Slope %: 1 Lat: 41.37623128 Long: -87.73072228 Datum: NAD83 Illinois East
 Soil Unit Name: Ashkum silty clay loam NWI Classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation X Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes No X
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Is the Sampling Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soils Present? Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: Cultivated field with field tile visible nearby. Two previous visits in Oct. 2008 (S1 and S2) abandoned due to weather and recinding of access permission. Vegetation and hydrology indicators are weak. NRCS slide review; sparse crop in 2008.	

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>--</u>					
2. <u>--</u>					
3. <u>--</u>					
4. <u>--</u>					
5. <u>--</u>					
Total Cover: <u> </u>					Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>20</u> (A) <u>70</u> (B) Prevalence Index = B/A = <u>3.5</u>
Sapling/Shrub Stratum (Plot size: <u> </u>) 1. <u>--</u> 2. <u>--</u> 3. <u>--</u> 4. <u>--</u> 5. <u>--</u> Total Cover: <u> </u>					
Herb Stratum (Plot size: <u> </u>) 1. <u>Ambrosia artemisiifolia</u> <u>10</u> <u>Y</u> <u>FACU</u> 2. <u>Chenopodium album</u> <u>10</u> <u>Y</u> <u>FAC</u> 3. <u>--</u> 4. <u>--</u> 5. <u>--</u> 6. <u>--</u> 7. <u>--</u> 8. <u>--</u> 9. <u>--</u> 10. <u>--</u> Total Cover: <u>20</u>					Hydrophytic Vegetation Indicators: <u> </u> Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
Woody Vine Stratum (Plot size: <u> </u>) 1. <u>--</u> 2. <u>--</u> Total Cover: <u> </u>					
Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>					
Remarks: (Include photo numbers here or on a separate sheet.) Sparsely vegetated soybean field					

SOIL

Sampling Point: **W04SE-9 SC-3**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-4	10YR 3/2	100					Clay loam	moist
4-15	10YR 5/4	85	10YR 6/8	15	C	PL	Clay loam	Moist; some organic streaking
15-20	10YR 5/4	80	10YR 6/8	10	C	PL	Clay loam	few fine gravel
			10YR 6/2	10	D	M		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes _____ No **X**

Remarks:

No redox in upper layer; lower layer chroma too high

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☒ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** Depth (inches): _____
Water Table Present? Yes _____ No **X** Depth (inches): _____
Saturation Present? Yes _____ No **X** Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Sparsely vegetated depression.

Site: Inaugural South Suburban Airport
 Locale: W04SE10
 Date: May 11, 2008 15 minutes
 By: AECOM; T. Radke; M. Hildreth
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W04SE10.inv

FLORISTIC QUALITY DATA	Native	1	100.0%	Adventive	0	0.0%
1 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
1 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.0 NATIVE MEAN W	A-Forb	1	100.0%	A-Forb	0	0.0%
-1.0 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/11/2009

Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W04SE-10 SC-1

Investigator(s): T. Radke; M. Hildreth Section, Township, Range: Section 4; T33N; R13E

Landform (hillside, terrace, etc.): Slope Local relief (concave, convex, none): Concave

Slope %: 2 Lat: 41.37509383 Long: -87.7310265 Datum: NAD83 Illinois East

Soil Unit Name: Ashkum silty clay loam NWI Classification: FW

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No

Are Vegetation X Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes No X

Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampling Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soils Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: Cultivated field---vegetation and hydrology altered. Field tile present (vent is <50' away)	

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					
Sapling/Shrub Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u>50</u> x 3 = <u>150</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>50</u> (A) <u>150</u> (B) Prevalence Index = B/A = <u>3.0</u>
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					
Herb Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Ambrosia trifida</u>	<u> </u>	<u>50</u>	<u>Y</u>	<u>FAC</u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>50</u>					
Woody Vine Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.) Many Ambrosia seedlings amid sparse corn stubble					

SOIL

Sampling Point: **W04SE-10 SC-1**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-8	10YR 2/1	100					Silty clay	moist
8-20	10YR 6/2	85	10YR 6/8	15	C	M	Silty clay	moist

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes X No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☒ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☒ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☒ Saturation Visible on Aerial Imagery (C9)
☒ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____
 Water Table Present? Yes _____ No X Depth (inches): _____
 Saturation Present? Yes _____ No X Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Identified on NRCS slide review; uncropped area in cultivated field.

Remarks:

Altered hydrology. Presence of field tile confirmed by vent located <50' downhill from plot

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/11/2009

Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W04SE-10 SC-2

Investigator(s): T. Radke; M. Hildreth Section, Township, Range: Section 4; T33N; R13E

Landform (hillside, terrace, etc.): rise Local relief (concave, convex, none): Concave

Slope %: 2 Lat: 41.37509383 Long: -87.7310265 Datum: NAD83 Illinois East

Soil Unit Name: Ashkum silty clay loam NWI Classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No

Are Vegetation X Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes No X

Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Is the Sampling Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soils Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: Cultivated field---vegetation and hydrology altered. Field tile present (vent is <50' away)	

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					
Sapling/Shrub Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>1</u> x 4 = <u>4</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>2</u> (A) <u>7</u> (B) Prevalence Index = B/A = <u>3.5</u>
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					
Herb Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) <u> </u> *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Ambrosia trifida</u>	<u> </u>	<u>1</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Ambrosia artemisiifolia</u>	<u> </u>	<u>1</u>	<u>Y</u>	<u>FACU</u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>2</u>					
Woody Vine Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.) Only two species present					

SOILSampling Point: **W04SE-10 SC-2****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-7	10YR 3/1	100					Silty clay	moist
7-20	10YR 6/2	85	10YR 6/8	15	C	M	Silty clay	moist

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes X No

Remarks:

Soil very similar to wetland point**HYDROLOGY****Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No X Depth (inches):
Water Table Present? Yes No X Depth (inches):
Saturation Present? Yes No X Depth (inches):
(includes capillary fringe)

Wetland Hydrology Present? Yes No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Upland point is uphill from wetland area on a rise.

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will Sampling Date: 5/11/09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W04SE-11
 Investigator(s): T. Radke; M. Hildreth Section, Township, Range: Section 4; T33N; R13E
 Landform (hillside, terrace, etc.): terrace Local relief (concave, convex, none): Concave
 Slope %: 2 Lat: 41.37343153 Long: -87.73351265 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silt loam (Mollic Oxyaquic Hapludalfs) moderately well drained NWI Classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Is the Sampling Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soils Present? Yes <u> </u> No <u> </u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: Tiled, grassed waterway. *No soil core taken.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum (Plot size: <u> </u>)				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				
Herb Stratum (Plot size: <u> </u>)				Hydrophytic Vegetation Indicators: Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) <u> </u> *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Bromus inermis</u>	<u>90</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Taraxacum officinale</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
3. <u>Festuca elatior</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>100</u>				
Woody Vine Stratum (Plot size: <u> </u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: **W04SE-11**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present?* Yes _____ No _____

Remarks: **Hydric soils not mapped. *No wetland vegetation or hydrology so no soil core collected.**

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** Depth (inches): _____
 Water Table Present? Yes _____ No ***** Depth (inches): _____
 Saturation Present? Yes _____ No **X** Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

No signs of hydrology present. NRCS aerial review location
 *Soil pit not excavated.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will Sampling Date: 5/11/09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W04SE-12
 Investigator(s): T. Radke; M. Hildreth Section, Township, Range: Section 4; T33N; R13E
 Landform (hillside, terrace, etc.): terrace Local relief (concave, convex, none): Concave
 Slope %: 2 Lat: 41.37502927 Long: -87.73244783 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silt loam (Mollic Oxyaquic Hapludalfs) moderately well drained NWI Classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Is the Sampling Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soils Present? Yes <u> </u> No <u> </u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: Tiled, grassed waterway. *No soil core taken.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u> 0 </u> (A) Total Number of Dominant Species Across All Strata: <u> 2 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 0% </u> (A/B)
1. <u> </u>				
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: OBL species <u> </u> x 1 = <u> 0 </u> FACW species <u> </u> x 2 = <u> 0 </u> FAC species <u> </u> x 3 = <u> 0 </u> FACU species <u> </u> x 4 = <u> 0 </u> UPL species <u> </u> x 5 = <u> 0 </u> Column Totals <u> 0 </u> (A) <u> 0 </u> (B) Prevalence Index = B/A = <u> #DIV/0! </u>
Total Cover: <u> </u>				
Sapling/Shrub Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u> </u>				
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
Total Cover: <u> </u>				
Herb Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <u> </u> Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Bromus inermis</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Taraxacum officinale</u>	<u>15</u>	<u>N</u>	<u>FACU</u>	
3. <u>Festuca elatior</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	
4. <u>Cirsium arvense</u>	<u>2</u>	<u>N</u>	<u>FACU</u>	
5. <u>Rumex crispus</u>	<u>2</u>	<u>N</u>	<u>FAC</u>	
6. <u>Cerastium vulgatum</u>	<u>2</u>	<u>N</u>	<u>FACU</u>	
7. <u> </u>				
8. <u> </u>				
9. <u> </u>				
10. <u> </u>				
Total Cover: <u>101</u>				
Woody Vine Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u> </u>				
2. <u> </u>				
Total Cover: <u> </u>				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: **W04SE-12**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present?* Yes _____ No _____

Remarks: **Hydric soils are not mapped. *No soil core collected because wetland vegetation and hydrology are absent.**

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** Depth (inches): _____
 Water Table Present? Yes _____ No ***** Depth (inches): _____
 Saturation Present? Yes _____ No **X** Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

No signs of hydrology present. *Soil pit not excavated. NRCS aerial review location.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will Sampling Date: 5/11/09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W04SE-13
 Investigator(s): T. Radke; M. Hildreth Section, Township, Range: Section 4; T33N; R13E
 Landform (hillside, terrace, etc.): terrace Local relief (concave, convex, none): Concave
 Slope %: 2 Lat: 41.37353551 Long: -87.7368375 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silt loam/Ashkum silty clay loam NWI Classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	No core	Is the Sampling Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soils Present? Yes <u> </u> No <u> </u>		
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>		
Remarks: Lateral grassed tiled waterway sloping down to lower drainageway. Bare scoured areas present.		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u> 0 </u> (A) Total Number of Dominant Species Across All Strata: <u> 3 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 0% </u> (A/B)
1. <u> </u>				
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
Total Cover: <u> </u>				Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> 0 </u> FACW species <u> </u> x 2 = <u> 0 </u> FAC species <u> </u> x 3 = <u> 0 </u> FACU species <u> </u> x 4 = <u> 0 </u> UPL species <u> </u> x 5 = <u> 0 </u> Column Totals <u> 0 </u> (A) <u> 0 </u> (B) Prevalence Index = B/A = <u> #DIV/0! </u>
Sapling/Shrub Stratum (Plot size: <u> </u>)				
1. <u> </u>				
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
Total Cover: <u> </u>				Hydrophytic Vegetation Indicators: <u> </u> Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
Herb Stratum (Plot size: <u> </u>)				
1. <u>Bromus inermis</u>	<u>20</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Taraxacum officinale</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	
3. <u>Oenothera biennis</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
4. <u>Trifolium pratense</u>	<u>10</u>	<u>Y</u>	<u>UPL</u>	
5. <u>Barbarea vulgaris</u>	<u>2</u>	<u>N</u>	<u>FAC</u>	
6. <u>Setaria faberi</u>	<u>2</u>	<u>N</u>	<u>FACU</u>	
7. <u>Lepidium campestre</u>	<u>10</u>	<u>Y</u>	<u>UPL</u>	
8. <u> </u>				
9. <u> </u>				
10. <u> </u>				
Total Cover: <u>47</u>				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
Woody Vine Stratum (Plot size: <u> </u>)				
1. <u> </u>				
2. <u> </u>				
Total Cover: <u> </u>				
Remarks: (Include photo numbers here or on a separate sheet.) Patchy vegetation.				

SOIL

Sampling Point: **W04SE-13**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

No soil core collected. Veg and hydrology not present for this area.

Hydric Soils Present?* Yes ☐ No ☐

Remarks:

Hydric soils mapped on lowest portion of drainageway. * Vegetation and hydrology do not meet wetland criteria, so no soil core taken

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____
 Water Table Present? Yes ☐ No ☒ Depth (inches): _____
 Saturation Present? Yes ☐ No ☒ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: NRCS review area; tiled drainageway with some scour visible but no sign of inundation/saturation

Drainageway slopes down to another, larger tiled drainageway.

Surface pattern of scour visible on bare areas. Vegetation patchy with predominantly upland species

*No soil pit excavated

Site: Inaugural South Suburban Airport
 Locale: W04SE14
 Date: May 11, 2009 15 minutes
 By: AECOM; T. Radke; M. Hildreth
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE14.inv

FLORISTIC QUALITY DATA	Native	7	53.8%	Adventive	6	46.2%
7 NATIVE SPECIES	Tree	1	7.7%	Tree	0	0.0%
13 Total Species	Shrub	1	7.7%	Shrub	0	0.0%
2.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.1 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
5.3 NATIVE FQI	P-Forb	0	0.0%	P-Forb	2	15.4%
3.9 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.4 NATIVE MEAN W	A-Forb	1	7.7%	A-Forb	0	0.0%
-1.3 W/Adventives	P-Grass	1	7.7%	P-Grass	3	23.1%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	1	7.7%
	P-Sedge	2	15.4%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	1	7.7%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
CYPESC	0 Cyperus esculentus	-1 [FAC+]	Nt P-Sedge	FIELD NUT SEDGE
EQUHYE	3 Equisetum hyemale	-2 FACW-	Cryptogam	TALL SCOURING RUSH
GLYSTR	4 Glyceria striata	-3 [FACW]	Nt P-Grass	FOWL MANNA GRASS
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PLARUG	0 Plantago rugelii	0 FAC	Nt A-Forb	RED-STALKED PLANTAIN
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION

Site: Inaugural South Suburban Airport
 Locale: W04SE15
 Date: May 11, 2009 30 minutes
 By: AECOM; T. Radke; M. Hildreth
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE15.inv

FLORISTIC QUALITY DATA	Native	8	66.7%	Adventive	4	33.3%
8 NATIVE SPECIES	Tree	0	0.0%	Tree	1	8.3%
12 Total Species	Shrub	1	8.3%	Shrub	0	0.0%
2.3 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.5 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.4 NATIVE FQI	P-Forb	3	25.0%	P-Forb	0	0.0%
5.2 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-3.7 NATIVE MEAN W	A-Forb	1	8.3%	A-Forb	0	0.0%
-3.1 W/Adventives	P-Grass	2	16.7%	P-Grass	3	25.0%
AVG: Fac. Wetland (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	1	8.3%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
EPICOL	3 Epilobium coloratum	-5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PHRAUS	1 Phragmites australis	-4 FACW+	Nt P-Grass	COMMON REED
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
RANABO	0 Ranunculus abortivus	-2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
SALFRA	0 SALIX FRAGILIS	-1 FAC+	Ad Tree	CRACK WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/11/2009

Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W04SE-15 SC-1

Investigator(s): T. Radke; M. Hildreth Section, Township, Range: Section 4; T33N; R13E

Landform (hillside, terrace, etc.): Slope Local relief (concave, convex, none): Concave

Slope %: 5 Lat: 41.37254089 Long: -87.73157524 Datum: NAD83 Illinois East

Soil Unit Name: Ozaukee silty clay loam, 6-12% slopes, severely eroded NWI Classification: Not mapped: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No

Are Vegetation Soil or hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampling Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soils Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			
Remarks: Seep on slope. Has saturated soil and is dominated by wetland vegetation					

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>4</u> (A)
1. <u>Salix fragilis</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
5. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
Total Cover: <u> </u>				
Sapling/Shrub Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u>
1. <u>Salix exigua</u>	<u>10</u>	<u>Y</u>	<u>OBL</u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	OBL species <u> </u> x 1 = <u>0</u>
3. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	FACW species <u> </u> x 2 = <u>0</u>
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	FAC species <u> </u> x 3 = <u>0</u>
5. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	FACU species <u> </u> x 4 = <u>0</u>
Total Cover: <u> </u>				UPL species <u> </u> x 5 = <u>0</u>
Herb Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Column Totals <u>0</u> (A) <u>0</u> (B)
1. <u>Phalaris arundinacea</u>	<u>70</u>	<u>Y</u>	<u>FACW</u>	Prevalence Index = B/A = <u>#DIV/0!</u>
2. <u>Phragmites australis</u>	<u>25</u>	<u>Y</u>	<u>FACW</u>	
3. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
5. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
6. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
7. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
8. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
9. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
10. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>115</u>				Hydrophytic Vegetation Indicators: ____ Dominance Test is >50% ____ Prevalence Index is >3.0* ____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
Woody Vine Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				
Remarks: (Include photo numbers here or on a separate sheet.) Groundwater driven wetland dominated by Common Reed				

SOIL

Sampling Point: **W04SE-15 SC-1**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-4	10YR 3/2	100					Mucky loam	organic content; saturated at surface
4-23	10YR 5/2	85	10YR 5/8	15	C	M	Sandy clay	moist

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☒ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☒ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes ☒ No ☐

Remarks:

Saturated organic soil on slope

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☒ Surface Water (A1)
- ☒ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☒ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☒ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): 2
Water Table Present? Yes ☒ No ☐ Depth (inches): _____
Saturation Present? Yes ☒ No ☐ Depth (inches): 10
(includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Groundwater intercepts surface along slope. Surface saturation.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/11/2009
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W04SE-15 SC-2
 Investigator(s): T. Radke; M. Hildreth Section, Township, Range: Section 4; T33N; R13E
 Landform (hillside, terrace, etc.): top of slope Local relief (concave, convex, none): Concave
 Slope %: 2 Lat: 41.37254089 Long: -87.73157524 Datum: NAD83 Illinois East
 Soil Unit Name: Ozaukee silty clay loam, 6-12% slopes, severely eroded NWI Classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology _____ Significantly disturbed? Yes _____ No X
 Are Vegetation _____ Soil _____ or hydrology _____ Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampling Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soils Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: Uncultivated area between cropped fields	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1. _____	_____	_____	_____	
2. --	_____	_____	_____	
3. --	_____	_____	_____	
4. --	_____	_____	_____	
5. --	_____	_____	_____	Prevalence Index Worksheet: Total % Cover of _____ Multiply by: _____ OBL species _____ x 1 = <u>0</u> FACW species _____ x 2 = <u>0</u> FAC species _____ x 3 = <u>0</u> FACU species _____ x 4 = <u>0</u> UPL species _____ x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Total Cover: _____				
Sapling/Shrub Stratum (Plot size: _____)	_____	_____	_____	
1. _____	_____	_____	_____	
2. --	_____	_____	_____	
3. --	_____	_____	_____	Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is >3.0* _____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
4. --	_____	_____	_____	
5. --	_____	_____	_____	
Total Cover: _____				
Herb Stratum (Plot size: _____)	_____	_____	_____	
1. <u>Solidago altissima</u>	<u>35</u>	<u>Y</u>	<u>FACU</u>	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
2. <u>Dactylis glomerata</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
3. <u>Festuca elatior</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
4. <u>Bromus inermis</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	
5. <u>Setaria glauca</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
6. <u>Sorghum halepense</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
7. --	_____	_____	_____	
8. --	_____	_____	_____	
9. --	_____	_____	_____	
10. --	_____	_____	_____	
Total Cover: <u>120</u>				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
Woody Vine Stratum (Plot size: _____)	_____	_____	_____	
1. --	_____	_____	_____	
2. --	_____	_____	_____	
Total Cover: _____				
Remarks: (Include photo numbers here or on a separate sheet.) Grassy strip between crop fields dominated by upland species. Johnson Grass growing in clumps shows signs of being vegetation control (singed leaves).				

SOIL

Sampling Point: **W04SE-15 SC-2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-5	10YR 3/2	100					Clay loam	dry
5-15	10YR 5/4	100			C	M	Silty clay	dry, some organic bodies
15-20	10YR 6/3	65	10YR 5/6	35	C	M	Sandy clay	dry

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes _____ No X

Remarks:

Dry old-field at top of hill above wetland plot.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____
Water Table Present? Yes _____ No X Depth (inches): _____
Saturation Present? Yes _____ No X Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Plot is on hill above wetland point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/11/2009

Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W04SE-16 SC-1

Investigator(s): T. Radke; M. Hildreth Section, Township, Range: Section 4; T33N; R13E

Landform (hillside, terrace, etc.): hillside Local relief (concave, convex, none): concave

Slope %: 2 Lat: 41.37403891 Long: -87.72935584 Datum: NAD83 Illinois East

Soil Unit Name: Ashkum silty clay loam NWI Classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No

Are Vegetation X Soil or hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes No X

Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Is the Sampling Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soils Present? Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: Cultivated field. Soybean crop residue with no sign of stress or failure. Signs of scour on slope above.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
3. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>30</u> (A) <u>100</u> (B) Prevalence Index = B/A = <u>3.3</u>
Sapling/Shrub Stratum (Plot size: <u> </u>)				
1. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
3. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				
Herb Stratum (Plot size: <u> </u>)				Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is >3.0* _____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Ambrosia trifida</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Ambrosia artemisiifolia</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>	
3. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
5. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
6. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
7. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
8. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
9. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				
Woody Vine Stratum (Plot size: <u> </u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				
Remarks: (Include photo numbers here or on a separate sheet.) Cultivated field with crop residue (soybeans) present.				

SOIL

Sampling Point: **W04SE-16 SC-1**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-24	10YR 2/1	100					Clay loam dry	
24-31	10YR 5/4	100					Sandy clay loam, moist	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes _____ No **X** _____

Remarks:

Hydric soils not present. Plot is at boundary of Markham/Ashkum units. No redox or reduced matrix features present.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** _____ Depth (inches): _____
Water Table Present? Yes _____ No **X** _____ Depth (inches): _____
Saturation Present? Yes _____ No **X** _____ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Area is an NRCS 2008 polygon
Plot is in cultivated field with soybean residue of successful crop.
Landscape position on slight incline at base of gradual slope. Signs of scour on slope, but no sign of ponding or crop failure.

Site: Inaugural South Suburban Airport
 Locale: W04SW1a
 Date: May 11, 2009 1 hours
 October 9, 2008 1 hours
 By: AECOM: T.Radke; R.Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW1a.inv

FLORISTIC QUALITY DATA	Native	40	80.0%	Adventive	10	20.0%
40 NATIVE SPECIES	Tree	2	4.0%	Tree	0	0.0%
50 Total Species	Shrub	5	10.0%	Shrub	0	0.0%
2.5 NATIVE MEAN C	W-Vine	2	4.0%	W-Vine	1	2.0%
2.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
15.7 NATIVE FQI	P-Forb	13	26.0%	P-Forb	1	2.0%
14.0 W/Adventives	B-Forb	0	0.0%	B-Forb	3	6.0%
-1.9 NATIVE MEAN W	A-Forb	7	14.0%	A-Forb	0	0.0%
-1.4 W/Adventives	P-Grass	5	10.0%	P-Grass	5	10.0%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	4	8.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	2	4.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0	Acer saccharinum	-3	FACW	Nt Tree	SILVER MAPLE
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
ALISUB	4	Alisma subcordatum	-5	OBL	Nt P-Forb	COMMON WATER PLANTAIN
AMBARE	0	Ambrosia artemisiifolia elatior	3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTNOV	4	Aster novae-angliae	-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BARVUL	0	BARBAREA VULGARIS	0	FAC	Ad B-Forb	YELLOW ROCKET
CALCAN	3	Calamagrostis canadensis	-5	OBL	Nt P-Grass	BLUE JOINT GRASS
CXCRIS	4	Carex cristatella	-4	FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CXVULP	2	Carex vulpinoidea	-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
CORSTO	6	Cornus stolonifera	-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
ELYVIR	4	Elymus virginicus	-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
EPICOL	3	Epilobium coloratum	-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
EQUARV	0	Equisetum arvense	0	FAC	Cryptogam	HORSETAIL
EQUHYE	3	Equisetum hyemale	-2	FACW-	Cryptogam	TALL SCOURING RUSH
FESELA	0	FESTUCA ELATIOR	2	FACU+	Ad P-Grass	TALL FESCUE
GALAPA	1	Galium aparine	3	FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEULAT	2	Geum laciniatum trichocarpum	-3	FACW	Nt P-Forb	ROUGH AVENS
GLYSTR	4	Glyceria striata	-3	[FACW]	Nt P-Grass	FOWL MANNA GRASS
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
IMPCAP	3	Impatiens capensis	-3	FACW	Nt A-Forb	ORANGE JEWELWEED
JUNDUD	4	Juncus dudleyi	0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
LYCAME	5	Lycopus americanus	-5	OBL	Nt P-Forb	COMMON WATER HOREHOUND
MELALB	0	MELILOTUS ALBA	3	FACU	Ad B-Forb	WHITE SWEET CLOVER

MONFIS	4	<i>Monarda fistulosa</i>	3	FACU	Nt P-Forb	WILD BERGAMOT
OSMLON	3	<i>Osmorhiza longistylis</i>	4	FACU-	Nt P-Forb	SMOOTH SWEET CICELY
PASSAT	0	PASTINACA SATIVA	5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad P-Grass	REED CANARY GRASS
PHRAUS	1	<i>Phragmites australis</i>	-4	FACW+	Nt P-Grass	COMMON REED
PILPUM	5	<i>Pilea pumila</i>	-3	FACW	Nt A-Forb	CLEARWEED
PLARUG	0	<i>Plantago rugelii</i>	0	FAC	Nt A-Forb	RED-STALKED PLANTAIN
POACOM	0	POA COMPRESSA	2	FACU+	Ad P-Grass	CANADA BLUE GRASS
POAPRA	0	POA PRATENSIS	1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POPDEL	2	<i>Populus deltoides</i>	-1	FAC+	Nt Tree	EASTERN COTTONWOOD
RANABO	0	<i>Ranunculus abortivus</i>	-2	FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RHURAD	2	<i>Rhus radicans</i>	-1	FAC+	Nt W-Vine	POISON IVY
RUBALL	3	<i>Rubus allegheniensis</i>	2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2	<i>Rubus occidentalis</i>	5	UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0	RUMEX CRISPUS	-1	FAC+	Ad P-Forb	CURLY DOCK
SALINT	1	<i>Salix interior</i>	-5	OBL	Nt Shrub	SANDBAR WILLOW
SAMCAN	1	<i>Sambucus canadensis</i>	-2	FACW-	Nt Shrub	ELDERBERRY
SANGRE SNAKEROOT	2	<i>Sanicula gregaria</i>	-1	FAC+	Nt P-Forb	CLUSTERED BLACK
SCIATR	4	<i>Scirpus atrovirens</i>	-5	OBL	Nt P-Sedge	DARK GREEN RUSH
SCIFLU	4	<i>Scirpus fluviatilis</i>	-5	OBL	Nt P-Sedge	RIVER BULRUSH
SOLDUL	0	SOLANUM DULCAMARA	0	FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1	<i>Solidago altissima</i>	3	FACU	Nt P-Forb	TALL GOLDENROD
SPAPEC	4	<i>Spartina pectinata</i>	-4	FACW+	Nt P-Grass	PRAIRIE CORD GRASS
TYPLAT	1	<i>Typha latifolia</i>	-5	OBL	Nt P-Forb	BROAD-LEAVED CATTAIL
VITRIP	2	<i>Vitis riparia</i>	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

Site: Inaugural South Suburban Airport
 Locale: W04SW1b and c
 Date: May 11, 2009 15 minutes
 By: AECOM; T. Radke; M. Hildreth
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW1b&c.inv

FLORISTIC QUALITY DATA	Native	5	33.3%	Adventive	10	66.7%
5 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
15 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
2.8 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.9 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.3 NATIVE FQI	P-Forb	2	13.3%	P-Forb	3	20.0%
3.6 W/Adventives	B-Forb	0	0.0%	B-Forb	3	20.0%
-2.4 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-0.1 W/Adventives	P-Grass	0	0.0%	P-Grass	3	20.0%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	1	6.7%
	P-Sedge	3	20.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
BARVUL	0 BARBAREA VULGARIS	0 FAC	Ad B-Forb	YELLOW ROCKET
CXCRIS	4 Carex cristatella	-4 FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CYPESC	0 Cyperus esculentus	-1 [FAC+]	Nt P-Sedge	FIELD NUT SEDGE
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi	0 [FAC]	Nt P-Forb	DUDLEY'S RUSH
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
TRIPRA	0 TRIFOLIUM PRATENSE	5 UPL	Ad P-Forb	RED CLOVER

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. Page						Date: 10/09/08 County: Will State: Illinois Community ID: Wetland Complex Station ID: W04SW-1 Plot ID: SC-1																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks:																																																																		
(If yes, define below.)																																																																								
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Dominant Species (50/20 Rule)																																																																								
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 80% Remarks: Hydrophytic vegetation is dominant. Plot is in wet meadow, west of willow thicket																																																																								
HYDROLOGY																																																																								
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)																																																																			
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: 8 (in.) Depth to Saturated Soil: NA (in.)					Remarks: Wetland hydrology is present. Meadow and adjacent willow thicket saturated at/near surface.																																																																			
SOILS																																																																								
Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																								
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Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? _____ Yes <input checked="" type="checkbox"/> No																																																																	
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Site: Inaugural South Suburban Airport
 Locale: W04SW2
 Date: October 10, 2008 1 hours
 By: AECOM: T.Radke; M.Hildreth
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW2.inv

FLORISTIC QUALITY DATA	Native	3	37.5%	Adventive	5	62.5%
3 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
8 Total Species	Shrub	1	12.5%	Shrub	0	0.0%
1.3 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.5 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
2.3 NATIVE FQI	P-Forb	2	25.0%	P-Forb	0	0.0%
1.4 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.3 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-0.4 W/Adventives	P-Grass	0	0.0%	P-Grass	5	62.5%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																															
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 Locale: W04SW3a
 Date: October 8, 2008 3 hours
 By: AECOM:T.Radke; R.West
 File: l:\work\103576\wp\Environmental\Wetland Delineation\Completed Field Forms\Revised
 Forms\W04\FQI\W04SW3a.inv

FLORISTIC QUALITY DATA	Native	49	74.2%	Adventive	17	25.8%
49 NATIVE SPECIES	Tree	4	6.1%	Tree	1	1.5%
66 Total Species	Shrub	4	6.1%	Shrub	2	3.0%
2.9 NATIVE MEAN C	W-Vine	3	4.5%	W-Vine	1	1.5%
2.2 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
20.6 NATIVE FQI	P-Forb	25	37.9%	P-Forb	2	3.0%
17.7 W/Adventives	B-Forb	1	1.5%	B-Forb	3	4.5%
-0.6 NATIVE MEAN W	A-Forb	3	4.5%	A-Forb	1	1.5%
0.1 W/Adventives	P-Grass	4	6.1%	P-Grass	7	10.6%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	3	4.5%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	2	3.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0	Acer saccharinum	-3	FACW	Nt Tree	SILVER MAPLE
AGRGRY	2	Agrimonia gryposepala	2	FACU+	Nt P-Forb	TALL AGRIMONY
AGRREP	0	AGROPYRON REPENS	3	FACU	Ad P-Grass	QUACK GRASS
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
AGRALP	10	Agrostis alba palustris	-5	[OBL]	Nt P-Grass	BENT GRASS
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOSIB	2	Apocynum sibiricum	-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASCSYR	0	Asclepias syriaca	5	UPL	Nt P-Forb	COMMON MILKWEED
ASTERI	5	Aster ericoides	4	FACU-	Nt P-Forb	HEATH ASTER
ASTNOV	4	Aster novae-angliae	-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1	Bidens frondosa	-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
BROINE	0	BROMUS INERMIS	5	UPL	Ad P-Grass	HUNGARIAN BROME
CXCRIS	4	Carex cristatella	-4	FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CXVULP	2	Carex vulpinoidea	-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
CICMAC	6	Cicuta maculata	-5	OBL	Nt P-Forb	WATER HEMLOCK
CONSEP	1	Convolvulus sepium	0	FAC	Nt P-Forb	HEDGE BINDWEED
CORSTO	6	Cornus stolonifera	-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ELAUMB	0	ELAEAGNUS UMBELLATA	5	UPL	Ad Shrub	AUTUMN OLIVE
ELYVIR	4	Elymus virginicus	-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
EQUARV	0	Equisetum arvense	0	FAC	Cryptogam	HORSETAIL
EQUHYE	3	Equisetum hyemale	-2	FACW-	Cryptogam	TALL SCOURING RUSH
FESELA	0	FESTUCA ELATIOR	2	FACU+	Ad P-Grass	TALL FESCUE
FRAVIR	1	Fragaria virginiana	1	FAC-	Nt P-Forb	WILD STRAWBERRY

FRAPES	1	<i>Fraxinus pennsylvanica subintegerrima</i>	0	FAC	Nt Tree	GREEN ASH
GALOBT	5	<i>Galium obtusum</i>	-4	FACW+	Nt P-Forb	WILD MADDER
GEUCAN	1	<i>Geum canadense</i>	0	FAC	Nt P-Forb	WOOD AVENS
GLEHED	0	GLECHOMA HEDERACEA	3	FACU	Ad P-Forb	CREEPING CHARLIE
GLYSTR	4	<i>Glyceria striata</i>	-3	[FACW]	Nt P-Grass	FOWL MANNA GRASS
HACVIR	0	<i>Hackelia virginiana</i>	1	FAC-	Nt B-Forb	STICKSEED
HELGRO	2	<i>Helianthus grosseserratus</i>	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4	<i>Juncus dudleyi</i>	0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
LEEVR	7	<i>Leersia virginica</i>	-3	FACW	Nt P-Grass	WHITE GRASS
LYCAME	5	<i>Lycopus americanus</i>	-5	OBL	Nt P-Forb	COMMON WATER HOREHOUND
MELALB	0	MELILOTUS ALBA	3	FACU	Ad B-Forb	WHITE SWEET CLOVER
MENARV	5	<i>Mentha arvensis villosa</i>	-5	[OBL]	Nt P-Forb	WILD MINT
MIMRIN	6	<i>Mimulus ringens</i>	-5	OBL	Nt P-Forb	MONKEY FLOWER
MORALB	0	MORUS ALBA	0	FAC	Ad Tree	WHITE MULBERRY
OXAEUR	0	<i>Oxalis europaea</i>	3	FACU	Nt P-Forb	TALL WOOD SORREL
PARQUI	2	<i>Parthenocissus quinquefolia</i>	1	FAC-	Nt W-Vine	VIRGINIA CREEPER
PASSAT	0	PASTINACA SATIVA	5	UPL	Ad B-Forb	WILD PARSNIP
PENSED	5	<i>Penthorum sedoides</i>	-5	OBL	Nt P-Forb	DITCH STONECROP
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad P-Grass	REED CANARY GRASS
PHLPRA	0	PHLEUM PRATENSE	3	FACU	Ad P-Grass	TIMOTHY
PLARUG	0	<i>Plantago rugelii</i>	0	FAC	Nt A-Forb	RED-STALKED PLANTAIN
POAPRA	0	POA PRATENSIS	1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLPER	0	POLYGONUM PERSICARIA	1	[FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2	<i>Populus deltoides</i>	-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1	<i>Prunus serotina</i>	3	FACU	Nt Tree	WILD BLACK CHERRY
RHUGLA	1	<i>Rhus glabra</i>	5	UPL	Nt Shrub	SMOOTH SUMAC
RHURAD	2	<i>Rhus radicans</i>	-1	FAC+	Nt W-Vine	POISON IVY
ROSMUL	0	ROSA MULTIFLORA	3	FACU	Ad Shrub	MULTIFLORA ROSE
RUBOCC	2	<i>Rubus occidentalis</i>	5	UPL	Nt Shrub	BLACK RASPBERRY
SAMCAN	1	<i>Sambucus canadensis</i>	-2	FACW-	Nt Shrub	ELDERBERRY
SCIATR	4	<i>Scirpus atrovirens</i>	-5	OBL	Nt P-Sedge	DARK GREEN RUSH
SILLAC	5	<i>Silphium laciniatum</i>	5	UPL	Nt P-Forb	COMPASS PLANT
SILTER	5	<i>Silphium terebinthinaceum</i>	3	FACU	Nt P-Forb	PRAIRIE DOCK
SOLDUL	0	SOLANUM DULCAMARA	0	FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1	<i>Solidago altissima</i>	3	FACU	Nt P-Forb	TALL GOLDENROD
SOLJUN	5	<i>Solidago juncea</i>	5	UPL	Nt P-Forb	EARLY GOLDENROD
SOLNEM	4	<i>Solidago nemoralis</i>	5	UPL	Nt P-Forb	OLD-FIELD GOLDENROD
TRIREF	0	TRIFOLIUM REPENS	2	FACU+	Ad P-Forb	WHITE CLOVER

VERURU	5	<i>Verbena urticifolia</i>	5	UPL	Nt P-Forb	HAIRY WHITE VERVAIN
VIOSOR	3	<i>Viola sororia</i>	1	FAC-	Nt P-Forb	COMMON BLUE VIOLET
VITRIP	2	<i>Vitis riparia</i>	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

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Site: Inaugural South Suburban Airport
 Locale: W04SW3b
 Date: October 8, 2008 15 minutes
 By: AECOM: T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW3b.inv

FLORISTIC QUALITY DATA		Native	1	50.0%	Adventive	1	50.0%
1	NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
2	Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0	NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0	NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0	W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.0	NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
1.5	W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Fac. Wetland (-)		A-Grass	1	50.0%	A-Grass	1	50.0%
		P-Sedge	0	0.0%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			
ACRONYM	C SCIENTIFIC NAME	W WETNESS PHYSIOGNOMY COMMON NAME					
PANDII	0 Panicum dichotomiflorum	-2 FACW- Nt A-Grass KNEE GRASS					
ZEAMAY	0 ZEA MAYS	5 UPL Ad A-Grass CORN					

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)									
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 10/08/08 County: Will State: Illinois Community ID: FW Station ID: W04SW-3b Plot ID: S1			
Do Normal Circumstances Exist On The Site? _____ Yes _____ <input checked="" type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? _____ Yes _____ <input checked="" type="checkbox"/> No (If yes, define below.)									
Remarks: Farmed wetland adjacent to W04SW3a. Failed crop and bare soil. Wetland species dominant.									
VEGETATION									
Dominant Species (50/20 Rule)									
<u>Species Name</u> <u>Ind. Status</u> <u>Stratum</u> <u>% Cover</u>				<u>Species Name</u> <u>Ind. Status</u> <u>Stratum</u> <u>% Cover</u>					
1. <i>Panicum dichotomiflorum</i> FACW- HERB 60				7. <i>Helianthus grosseserratus</i> FACW- HERB 10					
2. <i>Zea mays</i> UPL HERB 10				8. -- -- -- --					
3. -- -- -- --				9. -- -- -- --					
4. -- -- -- --				10. -- -- -- --					
5. -- -- -- --				11. -- -- -- --					
6. -- -- -- --				12. -- -- -- --					
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100%									
Remarks: Hydrophytic vegetation is dominant. Sparse corn crop in area of bare soil									
HYDROLOGY									
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) No Recorded Data Available				Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines <input checked="" type="checkbox"/> Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data _____ FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)					
Field Observations: Depth of Surface Water: _____ NA (in.) Depth to Free Water: _____ NA (in.) Depth to Saturated Soil: _____ NA (in.)									
Remarks: Wetland hydrology is present. NRCS ID and failed crop; Surface saturated.									
SOILS									
Map Unit Name: Ashkum silty clay loam Taxonomy (Subgroup): Typic Endoaquolls				Series Drainage Class: Poorly drained Field Observations Confirm Mapped Type? _____ * Yes _____ No					
Profile Description:									
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.			
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² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)									
Remarks: Hydric soils are mapped. *No soil sample taken. Surface saturated and mucky.									
WETLAND DETERMINATION									
Hydrophytic Vegetation Present? _____ <input checked="" type="checkbox"/> Yes _____ No				Hydric Soils Present? _____ * Yes _____ No					
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Remarks: This plot is located in a wetland. *Soil sample not taken. Vegetation parameter altered.									

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																															
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0	6	Ap	10YR 3.5/2	NA NA	NA NA	Silty loam; moist, friable																																																											
6	10	A2	10YR 3.5/2	NA NA	NA NA	Silty loam; moist, friable																																																											
10	20	B	10YR 4/2	NA NA	NA NA	Silty clay loam; moist, friable																																																											
Hydric Soil Indicators ² :						Indicators for Problematic Hydric Soils ¹ :																																																											
_____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat			_____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions			_____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)																																																											
Remarks: Hydric soils are not present.						¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																											
WETLAND DETERMINATION																																																																	
Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																												
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																												
Remarks: This plot is not located in wetland. Agricultural drainage tile is functioning																																																																	

Site: Inaugural South Suburban Airport
 Locale: W04SW7
 Date: October 8, 2008 15 minutes
 By: AECOM: T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW7.inv

FLORISTIC QUALITY DATA	Native	2	50.0%	Adventive	2	50.0%
2 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
4 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.5 NATIVE MEAN W	A-Forb	1	25.0%	A-Forb	0	0.0%
0.0 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Fac. Wetland (-)	A-Grass	1	25.0%	A-Grass	2	50.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
RANABO	0 Ranunculus abortivus	-2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
ZEAMAY	0 ZEA MAYS	5 UPL	Ad A-Grass	CORN

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 10/08/08 County: Will State: Illinois Community ID: FW Station ID: W04SW-7 Plot ID: SC-1																																																											
Do Normal Circumstances Exist On The Site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)																																																																	
Remarks: Cornfield with failed crop and drainage tile.																																																																	
VEGETATION																																																																	
Dominant Species (50/20 Rule)																																																																	
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. Planted crop failed.																																																																	
HYDROLOGY																																																																	
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available				Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines <input checked="" type="checkbox"/> Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)																																																													
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)																																																																	
Remarks: Wetland hydrology is present. Evidence of ponding, soil cracks, NRCS ID and failed corn crop.																																																																	
SOILS																																																																	
Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																	
Profile Description: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Top Depth</th> <th>Bottom Depth</th> <th>Horizon</th> <th>Matrix Color (Munsell Moist):</th> <th>Mottle Colors (Munsell Moist):</th> <th>Mottle Abundance/Contrast</th> <th>Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>10</td> <td>Ap</td> <td>10YR 3/1</td> <td>NA</td> <td>NA</td> <td>Gravelly Silty clay loam; moist friable</td> </tr> <tr> <td>10</td> <td>19</td> <td>B</td> <td>10YR 5/1</td> <td>10YR 4/2</td> <td>common many distinct prominent</td> <td>Gravelly clay; moist, very firm</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	0	10	Ap	10YR 3/1	NA	NA	Gravelly Silty clay loam; moist friable	10	19	B	10YR 5/1	10YR 4/2	common many distinct prominent	Gravelly clay; moist, very firm																																			
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Remarks: This plot is located in a wetland. NRCS depression/swale in corn field has signs of water flowing/ponding. Stunted corn/bare spots at south end w/Barnyard grass and Yellow Foxtail grass.																																																																	

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. West						Date: 10/08/08 County: Will State: Illinois Community ID: Upland Station ID: W04SW-7 Plot ID: S2																																																											
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Remarks: Eroded corn field. Hydrophytic vegetation growing among crop but not dominant.																																																																	
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Remarks: Hydrophytic vegetation is not dominant amid corn crop.																																																																	
HYDROLOGY																																																																	
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos <input type="checkbox"/> Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)																																																												
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)																																																																	
Remarks: Wetland hydrology is not present. Aerial photo shows signature of drainage pattern--probable tile installation.																																																																	
SOILS																																																																	
Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained Taxonomy (Subgroup): Udolic Epiaqualfs Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																	
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Hydric Soil Indicators ² : <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <input type="checkbox"/> (A1) Histosol <input type="checkbox"/> (A2) Histic Epipedon <input type="checkbox"/> (A3) Black Histic <input type="checkbox"/> (A4) Hydrogen Sulfide <input type="checkbox"/> (A5) Stratified Layers <input type="checkbox"/> (A10) 2 cm Muck <input type="checkbox"/> (A11) Depleted Below Dark Surface <input type="checkbox"/> (A12) Thick Dark Surface <input type="checkbox"/> (S1) Sandy Mucky Mineral <input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat </div> <div style="width: 30%;"> <input type="checkbox"/> (S4) Sandy Gleyed Matrix <input type="checkbox"/> (S5) Sandy Redox <input type="checkbox"/> (S6) Stripped Matrix <input type="checkbox"/> (F1) Loamy Mucky Mineral <input type="checkbox"/> (F2) Loamy Gleyed Matrix <input type="checkbox"/> (F3) Depleted Matrix <input type="checkbox"/> (F6) Redox Dark Surface <input type="checkbox"/> (F7) Depleted Dark Surface <input type="checkbox"/> (F8) Redox Depressions </div> <div style="width: 30%;"> <input type="checkbox"/> (A16) Coast Prairie Redox <input type="checkbox"/> (F12) Iron-Manganese Masses <input type="checkbox"/> Other (Explain in Remarks) </div> </div>																																																																	
Remarks: Hydric soils are not present. Eroded surface. Soil profile matches sub-soil characteristics of Beecher						Indicators for Problematic Hydric Soils ¹ : ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																											
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Remarks: This plot is not located in wetland. Vegetation parameter altered. Field tile probably present.																																																																	

Site: Inaugural South Suburban Airport
 Locale: W04SW8
 Date: October 8, 2008 15 minutes
 By: AECOM: T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW8.inv

FLORISTIC QUALITY DATA		Native	1	50.0%	Adventive	1	50.0%
1	NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
2	Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0	NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0	NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0	W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.0	NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
2.0	W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative (+)		A-Grass	0	0.0%	A-Grass	1	50.0%
		P-Sedge	1	50.0%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			
ACRONYM	C SCIENTIFIC NAME	W WETNESS PHYSIOGNOMY COMMON NAME					
CYPESC	0 Cyperus esculentus	-1 [FAC+] Nt P-Sedge FIELD NUT SEDGE					
ZEAMAY	0 ZEA MAYS	5 UPL Ad A-Grass CORN					

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																									
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 Locale: W04SW9
 Date: October 9, 2008 1 hours
 By: AECOM: T.Radke; R.Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW9.inv

FLORISTIC QUALITY DATA	Native	13	56.5%	Adventive	10	43.5%
13 NATIVE SPECIES	Tree	1	4.3%	Tree	2	8.7%
23 Total Species	Shrub	1	4.3%	Shrub	1	4.3%
2.2 NATIVE MEAN C	W-Vine	2	8.7%	W-Vine	0	0.0%
1.2 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
7.8 NATIVE FQI	P-Forb	7	30.4%	P-Forb	2	8.7%
5.8 W/Adventives	B-Forb	0	0.0%	B-Forb	2	8.7%
0.7 NATIVE MEAN W	A-Forb	1	4.3%	A-Forb	1	4.3%
1.2 W/Adventives	P-Grass	0	0.0%	P-Grass	1	4.3%
AVG: Faculative (-)	A-Grass	1	4.3%	A-Grass	1	4.3%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
ALLPET	0 ALLIARIA PETIOLATA	0 FAC	Ad B-Forb	GARLIC MUSTARD
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
ASTNOV	4 Aster novae-angliae	-3 FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CRAMOL	2 Crataegus mollis	4 FACU-	Nt Tree	DOWNY HAWTHORN
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
SALFRA	0 SALIX FRAGILIS	-1 FAC+	Ad Tree	CRACK WILLOW
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SOLCAR	0 SOLANUM CAROLINENSE	4 FACU-	Ad P-Forb	HORSE NETTLE
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLJUN	5 Solidago juncea	5 UPL	Nt P-Forb	EARLY GOLDENROD
SOLNEM	4 Solidago nemoralis	5 UPL	Nt P-Forb	OLD-FIELD GOLDENROD
VIBDEN	0 VIBURNUM DENTATUM	5 UPL	Ad Shrub	ARROW-WOOD
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 71% Remarks: Hydrophytic vegetation is dominant. Depression next to narrow open channel						Wetland Hydrology Indicators: <input type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input checked="" type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)																																																														
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Remarks: Wetland hydrology is present. NRCS review and landscape position.																																																																				
SOILS Map Unit Name: Ashkum silty clay loam/Markham silt lo Series Drainage Class: Poorly drained/Moderately well-drained Taxonomy (Subgroup): Typic Endoaquolls / Mollic Oxyaquic Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																				
Profile Description: <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 5%;">Top Depth</th> <th style="width: 5%;">Bottom Depth</th> <th style="width: 10%;">Horizon</th> <th style="width: 10%;">Matrix Color (Munsell Moist):</th> <th style="width: 10%;">Mottle Colors (Munsell Moist):</th> <th style="width: 10%;">Mottle Abundance/Contrast</th> <th style="width: 50%;">Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>7</td> <td>A1</td> <td>10YR 3/1</td> <td>10YR 6/4</td> <td>few distinct</td> <td>Silty clay loam; moist, friable</td> </tr> <tr> <td>7</td> <td>12</td> <td>A2</td> <td>10YR 3/1</td> <td>10YR 4/2</td> <td>few faint</td> <td>Silty clay; moist, friable</td> </tr> <tr> <td>12</td> <td>20</td> <td>B1</td> <td>10YR 5/3</td> <td>10YR 3/1</td> <td>few distinct</td> <td>Clay; moist, firm</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>										Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	0	7	A1	10YR 3/1	10YR 6/4	few distinct	Silty clay loam; moist, friable	7	12	A2	10YR 3/1	10YR 4/2	few faint	Silty clay; moist, friable	12	20	B1	10YR 5/3	10YR 3/1	few distinct	Clay; moist, firm																															
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WETLAND DETERMINATION Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																				
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Remarks: Hydric soils are not present. Soil horizons appear disturbed; probable remnant of field tile installation.																																																																								
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Remarks: This plot is not located in wetland.																																																																								

Site: Inaugural South Suburban Airport
 Locale: W04SW10
 Date: October 9, 2008 4 hours
 By: AECOM: T.Radke; R.Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW10.inv

FLORISTIC QUALITY DATA	Native	25	75.8%	Adventive	8	24.2%
25 NATIVE SPECIES	Tree	4	12.1%	Tree	1	3.0%
33 Total Species	Shrub	5	15.2%	Shrub	1	3.0%
2.1 NATIVE MEAN C	W-Vine	2	6.1%	W-Vine	1	3.0%
1.6 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
10.6 NATIVE FQI	P-Forb	11	33.3%	P-Forb	1	3.0%
9.2 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-0.6 NATIVE MEAN W	A-Forb	1	3.0%	A-Forb	0	0.0%
-0.3 W/Adventives	P-Grass	2	6.1%	P-Grass	4	12.1%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
APOSIB	2 Apocynum sibiricum	-1 FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
CONSEP	1 Convolvulus sepium	0 FAC	Nt P-Forb	HEDGE BINDWEED
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
CRAMOL	2 Crataegus mollis	4 FACU-	Nt Tree	DOWNY HAWTHORN
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE
FRAVIR	1 Fragaria virginiana	1 FAC-	Nt P-Forb	WILD STRAWBERRY
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
LEEVIR	7 Leersia virginica	-3 FACW	Nt P-Grass	WHITE GRASS
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
OSMLON	3 Osmorhiza longistylis	4 FACU-	Nt P-Forb	SMOOTH SWEET CICELY
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLGVI	2 Polygonum virginianum	0 FAC	Nt P-Forb	WOODLAND KNOTWEED
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1 Prunus serotina	3 FACU	Nt Tree	WILD BLACK CHERRY
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
ROSMUL	0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
SALDIS	2 Salix discolor	-3 FACW	Nt Shrub	PUSSY WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW

SOLDUL	0	SOLANUM DULCAMARA	0	FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD
SOLCAN	1	Solidago canadensis	3	FACU	Nt P-Forb	CANADA GOLDENROD
TAROFF	0	TARAXACUM OFFICINALE	3	FACU	Ad P-Forb	COMMON DANDELION
TYPLAT	1	Typha latifolia	-5	OBL	Nt P-Forb	BROAD-LEAVED CATTAIL
VIBLEN	5	Viburnum lentago	-1	FAC+	Nt Shrub	NANNYBERRY
VITRIP	2	Vitis riparia	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

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Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																								
Profile Description: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Top Depth</th> <th style="width: 5%;">Bottom Depth</th> <th style="width: 10%;">Horizon</th> <th style="width: 10%;">Matrix Color (Munsell Moist):</th> <th style="width: 10%;">Mottle Colors (Munsell Moist):</th> <th style="width: 10%;">Mottle Abundance/Contrast</th> <th style="width: 50%;">Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>6</td> <td>A1</td> <td>10YR 3/1</td> <td>10YR 5/2</td> <td>common distinct</td> <td>Silty clay loam; moist, friable</td> </tr> <tr> <td>6</td> <td>12</td> <td>A2</td> <td>10YR 2/1</td> <td>10YR 6/4</td> <td>few distinct</td> <td>Silty clay loam; moist, friable</td> </tr> <tr> <td>12</td> <td>18</td> <td>B1</td> <td>10YR 2.5/2</td> <td>10YR 3/2</td> <td>common faint</td> <td>Silty clay; moist, firm</td> </tr> <tr> <td>18</td> <td>20</td> <td>B2</td> <td>10YR 4/1</td> <td>10YR 6/6 4/3</td> <td>common distinct</td> <td>Silty clay; moist, firm</td> </tr> </tbody> </table>										Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	0	6	A1	10YR 3/1	10YR 5/2	common distinct	Silty clay loam; moist, friable	6	12	A2	10YR 2/1	10YR 6/4	few distinct	Silty clay loam; moist, friable	12	18	B1	10YR 2.5/2	10YR 3/2	common faint	Silty clay; moist, firm	18	20	B2	10YR 4/1	10YR 6/6 4/3	common distinct	Silty clay; moist, firm																												
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Remarks: Hydric soils are present. Soil horizons appear to be disturbed; may be remnant of drainage tile installation						¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																																		
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Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																								
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Taxonomy (Subgroup): Udolic Epiaqualfs						Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																											
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Remarks: Hydric soils are not present. Soil profile may have been disturbed by past field tile installation.																																																																	
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Remarks: This plot is not located in wetland. Agricultural drainage tile is functioning																																																																															

Site: Inaugural South Suburban Airport
 Locale: W04SW12
 Date: October 9, 2008 1 hours
 By: AECOM: T.Radke; R.Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW12.inv

FLORISTIC QUALITY DATA	Native	6	42.9%	Adventive	8	57.1%
6 NATIVE SPECIES	Tree	1	7.1%	Tree	0	0.0%
14 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.3 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.1 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.8 NATIVE FQI	P-Forb	2	14.3%	P-Forb	2	14.3%
0.5 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.7 NATIVE MEAN W	A-Forb	2	14.3%	A-Forb	4	28.6%
1.4 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative (-)	A-Grass	1	7.1%	A-Grass	2	14.3%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
ERICAN	0 Erigeron canadensis	1 FAC-	Nt A-Forb	HORSEWEED
IPOHED	0 IPOMOEA HEDERACEA	0 FAC	Ad A-Forb	IVY-LEAVED MORNING GLORY
OXAEUR	0 Oxalis europaea	3 FACU	Nt P-Forb	TALL WOOD SORREL
PHYSUB	0 Physalis subglabrata	5 UPL	Nt P-Forb	TALL GROUND CHERRY
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLCAR	0 SOLANUM CAROLINENSE	4 FACU-	Ad P-Forb	HORSE NETTLE
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION

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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. Page						Date: 10/09/08 County: Will State: Illinois Community ID: PEM Station ID: W04SW-12 Plot ID: S1																																																											
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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. Page						Date: 10/09/08 County: Will State: Illinois Community ID: Upland Station ID: W04SW-12 Plot ID: S2																																																														
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SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalf Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																				
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WETLAND DETERMINATION Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Remarks: This plot is not located in wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and hydrophytic vegetation is not dominant.																																																																				

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SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained Taxonomy (Subgroup): Udolic Epiaqualfs Field Observations Confirm Mapped Type? No soil core taken* Yes <input type="checkbox"/> No <input type="checkbox"/>																																																																				
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Remarks: Non-hydric soils mapped. Bare soil appears to be eroded surface of sub-soil. *Wetland vegetation and hydrology are not present, so no soil core collected.						¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																														
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Site: Inaugural South Suburban Airport
 Locale: W04SW14
 Date: October 10, 2008 1 hours
 By: AECOM: T.Radke; M.Hildreth
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW14.inv

FLORISTIC QUALITY DATA	Native	15	53.6%	Adventive	13	46.4%
15 NATIVE SPECIES	Tree	1	3.6%	Tree	1	3.6%
28 Total Species	Shrub	2	7.1%	Shrub	0	0.0%
1.3 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
4.9 NATIVE FQI	P-Forb	5	17.9%	P-Forb	3	10.7%
3.6 W/Adventives	B-Forb	0	0.0%	B-Forb	1	3.6%
-2.0 NATIVE MEAN W	A-Forb	4	14.3%	A-Forb	5	17.9%
-0.4 W/Adventives	P-Grass	0	0.0%	P-Grass	1	3.6%
AVG: Fac. Wetland (-)	A-Grass	2	7.1%	A-Grass	2	7.1%
	P-Sedge	1	3.6%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
APOSIB	2 Apocynum sibiricum	-1 FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CYPESC	0 Cyperus esculentus	-1 [FAC+]	Nt P-Sedge	FIELD NUT SEDGE
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
EPICOL	3 Epilobium coloratum	-5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
ERICAN	0 Erigeron canadensis	1 FAC-	Nt A-Forb	HORSEWEED
EUPSUP	0 Euphorbia supina	4 FACU-	Nt A-Forb	SPOTTED CREEPING SPURGE
IPOHED	0 IPOMOEA HEDERACEA	0 FAC	Ad A-Forb	IVY-LEAVED MORNING GLORY
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RANABO	0 Ranunculus abortivus	-2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RORPAF	4 Rorippa palustris fernaldiana	-5 OBL	Nt A-Forb	MARSH CRESS
SALDIS	2 Salix discolor	-3 FACW	Nt Shrub	PUSSY WILLOW
SALFRA	0 SALIX FRAGILIS	-1 FAC+	Ad Tree	CRACK WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLCAR	0 SOLANUM CAROLINENSE	4 FACU-	Ad P-Forb	HORSE NETTLE
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION

TYPGLA	1 Typha X glauca	-5 OBL	Nt P-Forb	HYBRID CATTAIL
XANSTR	0 XANTHIUM STRUMARIUM	0 FAC	Ad A-Forb	COCKLEBUR

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)										
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: M. Hildreth						Date: 10/10/08 County: Will State: Illinois Community ID: PEM Station ID: W04SW-14 Plot ID: S1				
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)										
Remarks: Severely eroded, tiled drainageway in cornfield.										
VEGETATION										
Dominant Species (50/20 Rule)										
	<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>			<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>
1.	<i>Panicum dichotomiflorum</i>	FACW-	HERB	50			7.	--	--	--
2.	<i>Cyperus esculentus</i>	FACW	HERB	20			8.	--	--	--
3.	<i>Setaria faberi</i>	FACU+	HERB	10			9.	--	--	--
4.	<i>Salix exigua</i>	OBL	SHRUB	20			10.	--	--	--
5.	<i>Populus deltoides</i>	FAC+	TREE	25			11.	--	--	--
6.	--	--	--	--			12.	--	--	--
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-):						100%				
Remarks: Hydrophytic vegetation is dominant.										
HYDROLOGY										
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)					
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: 10 (in.) Depth to Saturated Soil: NA (in.)										
Remarks: Wetland hydrology is present. Fed by drainage swale from cornfield on north.										
SOILS										
Map Unit Name: Ashkum silty clay loam						Series Drainage Class: Poorly drained				
Taxonomy (Subgroup): Typic Endoaquolls						Field Observations Confirm Mapped Type? _____ Yes <input checked="" type="checkbox"/> No				
Profile Description:										
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.				
Depth	Depth									
0	3.5	A1	7.5yr 4/2	NA NA	NA NA	Loam; wet, friable				
3.5	22	A2	10YR 5/2	10YR 5/6	many distinct	Clay loam; moist, firm				
Hydric Soil Indicators ² :										
_____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat					_____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix <input checked="" type="checkbox"/> (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions					
Indicators for Problematic Hydric Soils ¹ : _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)										
¹ Indicators of hydrophytic vegetation and wetland hydrology must be present.										
² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)										
Remarks: Hydric soils are present.										
WETLAND DETERMINATION										
Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Remarks: This plot is located in a wetland. Tiled channel is deeply entrenched and severely eroded.										

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Investigator #1: AECOM; T.Radke #2: M. Hildreth					State: Illinois																																																												
Do Normal Circumstances Exist On The Site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Community ID: Upland																																																												
Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Station ID: W04SW-14																																																												
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Plot ID: S2																																																												
(If yes, define below.)																																																																	
Remarks: Soil core is in cornfield; field tile is present																																																																	
VEGETATION																																																																	
Dominant Species (50/20 Rule)																																																																	
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3.5	19	B1	10Y 6/1	10yr 5/8	many prominent	Sandy clay loam; moist, friable																																																											
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Remarks: This plot is not located in wetland.																																																																	

Site: Inaugural South Suburban Airport
 Locale: BWC-W04a
 Date: 10/7/2008 4 hours
 By: AECOM: T.Radke; R.Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\BWCW04a.inv

FLORISTIC QUALITY DATA	Native	25	71.4%	Adventive	10	28.6%
25 NATIVE SPECIES	Tree	5	14.3%	Tree	1	2.9%
35 Total Species	Shrub	5	14.3%	Shrub	1	2.9%
2.5 NATIVE MEAN C	W-Vine	2	5.7%	W-Vine	0	0.0%
1.8 W/Adventives	H-Vine	1	2.9%	H-Vine	0	0.0%
12.4 NATIVE FQI	P-Forb	6	17.1%	P-Forb	1	2.9%
10.5 W/Adventives	B-Forb	0	0.0%	B-Forb	3	8.6%
-0.8 NATIVE MEAN W	A-Forb	3	8.6%	A-Forb	1	2.9%
0.3 W/Adventives	P-Grass	3	8.6%	P-Grass	3	8.6%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
AGRREP	0 AGROPYRON REPENS	3 FACU	Ad P-Grass	QUACK GRASS
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ARCMIN	0 ARCTIUM MINUS	5 UPL	Ad B-Forb	COMMON BURDOCK
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
CELOCC	3 Celtis occidentalis	1 FAC-	Nt Tree	HACKBERRY
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
CRAMOL	2 Crataegus mollis	4 FACU-	Nt Tree	DOWNY HAWTHORN
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ELYCAN	4 Elymus canadensis	1 FAC-	Nt P-Grass	CANADA WILD RYE
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
EPICOL	3 Epilobium coloratum	-5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
EUPRUG	4 Eupatorium rugosum	5 UPL	Nt P-Forb	WHITE SNAKEROOT
EUPSEM	0 Eupatorium serotinum	-1 FAC+	Nt P-Forb	LATE BONESET
LONTAT	0 LONICERA TATARICA	5 [UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
MORRUB	10 Morus rubra	1 FAC-	Nt Tree	RED MULBERRY
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PHRAUS	1 Phragmites australis	-4 FACW+	Nt P-Grass	COMMON REED
PHYAME	1 Phytolacca americana	1 FAC-	Nt P-Forb	POKEWEED
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POLPUN	6 Polygonum punctatum	-5 OBL	Nt A-Forb	SMARTWEED
POLSCN	1 Polygonum scandens	0 FAC	Nt H-Vine	CLIMBING FALSE BUCKWHEAT

POPDEL	2	<i>Populus deltoides</i>	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RHURAD	2	<i>Rhus radicans</i>	-1 FAC+	Nt W-Vine	POISON IVY
RUBALL	3	<i>Rubus allegheniensis</i>	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2	<i>Rubus occidentalis</i>	5 UPL	Nt Shrub	BLACK RASPBERRY
SALFRA	0	<i>SALIX FRAGILIS</i>	-1 FAC+	Ad Tree	CRACK WILLOW
SALINT	1	<i>Salix interior</i>	-5 OBL	Nt Shrub	SANDBAR WILLOW
SAMCAN	1	<i>Sambucus canadensis</i>	-2 FACW-	Nt Shrub	ELDERBERRY
SOLALT	1	<i>Solidago altissima</i>	3 FACU	Nt P-Forb	TALL GOLDENROD
VITRIP	2	<i>Vitis riparia</i>	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

Site: Inaugural South Suburban Airport
 Locale: BWC-W04b
 Date: October 7, 2008 1 hours
 By: AECOM: T.Radke; R.Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\BWCW04b.inv

FLORISTIC QUALITY DATA	Native	13	65.0%	Adventive	7	35.0%
13 NATIVE SPECIES	Tree	3	15.0%	Tree	0	0.0%
20 Total Species	Shrub	4	20.0%	Shrub	0	0.0%
2.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.3 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
7.2 NATIVE FQI	P-Forb	3	15.0%	P-Forb	0	0.0%
5.8 W/Adventives	B-Forb	0	0.0%	B-Forb	2	10.0%
-0.5 NATIVE MEAN W	A-Forb	1	5.0%	A-Forb	0	0.0%
0.1 W/Adventives	P-Grass	1	5.0%	P-Grass	4	20.0%
AVG: Faculative (+)	A-Grass	1	5.0%	A-Grass	1	5.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
MELALB	0 MELILOTUS ALBA	3 FACU	Ad B-Forb	WHITE SWEET CLOVER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PHYAME	1 Phytolacca americana	1 FAC-	Nt P-Forb	POKEWEED
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PREALB	5 Prenanthes alba	3 FACU	Nt P-Forb	LION'S FOOT
PRUSER	1 Prunus serotina	3 FACU	Nt Tree	WILD BLACK CHERRY
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL

Site: Inaugural South Suburban Airport
 Locale: BWC-W04c
 Date: October 7, 2008 2 hours
 By: AECOM: T.Radke; R.Page
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\BWCW04c.inv

FLORISTIC QUALITY DATA	Native	7	77.8%	Adventive	2	22.2%
7 NATIVE SPECIES	Tree	1	11.1%	Tree	0	0.0%
9 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.6 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.4 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
1.5 NATIVE FQI	P-Forb	1	11.1%	P-Forb	0	0.0%
1.3 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.4 NATIVE MEAN W	A-Forb	3	33.3%	A-Forb	1	11.1%
-0.4 W/Adventives	P-Grass	0	0.0%	P-Grass	1	11.1%
AVG: Faculative (+)	A-Grass	2	22.2%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD

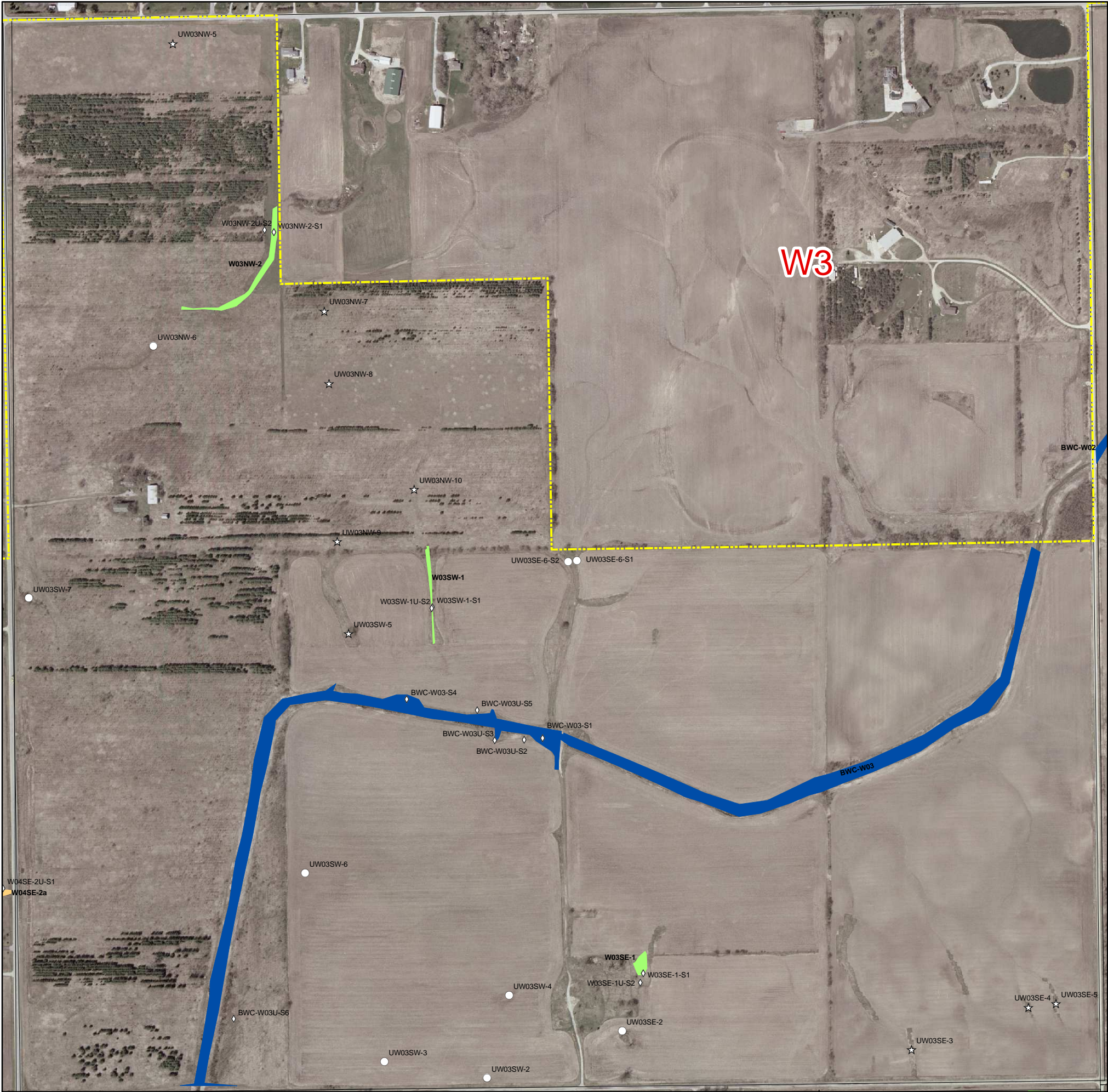
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VEGETATION Dominant Species (50/20 Rule) <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr> <td>1. <i>Phalaris arundinacea</i></td> <td>FACW+</td> <td>HERB</td> <td>70</td> <td>7. <i>Acer negundo</i></td> <td>FACW-</td> <td>TREE</td> <td>10</td> </tr> <tr> <td>2. <i>Sambucus canadensis</i></td> <td>FACW-</td> <td>SHRUB</td> <td>15</td> <td>8. <i>Ambrosia trifida</i></td> <td>FAC+</td> <td>HERB</td> <td>10</td> </tr> <tr> <td>3. <i>Salix interior</i></td> <td>OBL</td> <td>SHRUB</td> <td>5</td> <td>9. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>4. <i>Solidago altissima</i></td> <td>FACU</td> <td>HERB</td> <td>10</td> <td>10. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>5. <i>Rubus allegheniensis</i></td> <td>FACU+</td> <td>SHRUB</td> <td>10</td> <td>11. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>6. <i>Morus alba</i></td> <td>FAC</td> <td>TREE</td> <td>10</td> <td>12. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover	1. <i>Phalaris arundinacea</i>	FACW+	HERB	70	7. <i>Acer negundo</i>	FACW-	TREE	10	2. <i>Sambucus canadensis</i>	FACW-	SHRUB	15	8. <i>Ambrosia trifida</i>	FAC+	HERB	10	3. <i>Salix interior</i>	OBL	SHRUB	5	9. --	--	--	--	4. <i>Solidago altissima</i>	FACU	HERB	10	10. --	--	--	--	5. <i>Rubus allegheniensis</i>	FACU+	SHRUB	10	11. --	--	--	--	6. <i>Morus alba</i>	FAC	TREE	10
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Appendix E Section Will 03

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
W03NW-2-S1	24	Yes	5.6	Photo SW
W03NW-2U-S2	23	Yes		
UW03NW-5	NA	NA	NA	Photo SW
UW03NW-6	12	Yes	NA	Photo SW
UW03NW-7	NA	NA	NA	Photo NE
UW03NW-8	NA	NA	NA	Photo W
UW03NW-9	NA	NA	NA	Photo W
UW03NW-10	NA	NA	NA	Photo N
W03SE-1-S1	23	Yes	6.1	
W03SE-1U-S2	23	No		
UW03SE-2	23	No	NA	
UW03SE-3	NA	NA	NA	Photo NW
UW03SE-4	NA	NA	NA	Photo NW
UW03SE-5	NA	NA	NA	Photo N
UW03SE-6-S1	12	No	NA	Photo S
UW03SE-6-S2	23	No	NA	
W03SW-1-S1	24	Yes	6.4	Photo S
W03SW-1U-S2	23	No		Photo S
UW03SW-2	9	No	NA	Photo E
UW03SW-3	12	No	NA	Photo W
UW03SW-4	18	No	NA	Photo SE
UW03SW-5	12	NA	NA	Photo N & S
UW03SW-6	12	No	NA	Photo E
UW03SW-7	23	No	NA	Photo E
BWC-W03-S1	23	Yes	13.6	Photo NE
BWC-W03U-S2	23	No		Photo W
BWC-W03-S3	23	Yes		Photo NW
BWC-W03-S4	21	Yes		Photo S
BWC-W03U-S5	21	No		
BWC-W03U-S6	24	No		Photo S & NE, No data form

NA = not applicable



Legend

Wetland Type

- PEM
- PSS
- PFO
- PEM/PFO
- PSS/PEM
- PFO/PSS
- POW
- Stream
- Wetland Complex

2008 Study Boundary

Sections

- Upland Soil Cores
- Upland Photo Locations
- Wetland Soil Cores

N

EXHIBIT E-1E

Will Township Section 3

2008 - 2009 FIELD INVESTIGATION RESULTS

South Suburban Airport

Illinois Department of Transportation
Division of Aeronautics

AECOM

0 250 500 1,000 1,500 Feet

Site: Inaugural South Suburban Airport
 Locale: W03NW2
 Date: September 23, 2008 30 minutes
 By: AECOM: S. Johnson; T. Schultz
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W03NW2.inv

FLORISTIC QUALITY DATA	Native	14	63.6%	Adventive	8	36.4%
14 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
22 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
1.5 NATIVE MEAN C	W-Vine	1	4.5%	W-Vine	0	0.0%
1.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
5.6 NATIVE FQI	P-Forb	5	22.7%	P-Forb	4	18.2%
4.5 W/Adventives	B-Forb	0	0.0%	B-Forb	1	4.5%
-1.6 NATIVE MEAN W	A-Forb	4	18.2%	A-Forb	0	0.0%
-0.2 W/Adventives	P-Grass	0	0.0%	P-Grass	3	13.6%
AVG: Fac. Wetland (-)	A-Grass	2	9.1%	A-Grass	0	0.0%
	P-Sedge	2	9.1%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
CXSTRI	5 Carex stricta	-5 OBL	Nt P-Sedge	COMMON TUSsock SEDGE
CXVULP	2 Carex vulpinoidea	-5 OBL	Nt P-Sedge	BROWN FOX SEDGE
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CONSEP	1 Convolvulus sepium	0 FAC	Nt P-Forb	HEDGE BINDWEED
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNTEN	0 Juncus tenuis	2 [FACU+]	Nt P-Forb	PATH RUSH
MELALB	0 MELILOTUS ALBA	3 FACU	Ad B-Forb	WHITE SWEET CLOVER
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PILPUM	5 Pilea pumila	-3 FACW	Nt A-Forb	CLEARWEED
PLALAN	0 PLANTAGO LANCEOLATA	0 FAC	Ad P-Forb	ENGLISH PLANTAIN
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
TRIPRA	0 TRIFOLIUM PRATENSE	5 UPL	Ad P-Forb	RED CLOVER

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/22/08 County: Will State: Illinois Community ID: PEM Station ID: W03NW-2 Plot ID: S1
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Mowed, grassed waterway.**
 NRCS slide review site

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Taraxacum officinale</i>	FACU	HERB	25		7. --	--	--	--
2. <i>Poa pratensis</i>	FAC-	HERB	50		8. --	--	--	--
3. <i>Trifolium pratense</i>	FACU+	HERB	20		9. --	--	--	--
4. <i>Panicum dichotomiflorum</i>	FACW-	HERB	5		10. --	--	--	--
5. --	--	--	--		11. --	--	--	--
6. --	--	--	--		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **0%**

Remarks: **Hydrophytic vegetation is not dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: 1 (in.) Depth to Saturated Soil: 0 (in.)	

Remarks: **Wetland hydrology is present.**
 NRCS Slide Review

SOILS

Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes		Series Drainage Class: Poorly drained					
Taxonomy (Subgroup): Typic Endoaquolls		Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Profile Description:							
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	
0	8	Ap	10YR 3/1	NA NA	NA NA	mucky silt loam, moist, friable	
8	13	Ap	10YR 2/1	10YR 5/4	few distinct	silty clay, moist, friable	
13	21	A	10YR 4/1	10YR 5/6	common prominent	clay, moist, friable	
21	24	B	10YR 5/1	10YR 5/6	common prominent	clay, moist, friable	

Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat	Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix <input checked="" type="checkbox"/> (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)
--	---

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
---	---

Remarks: **This plot is located in a wetland.**
 This plot meets the soil and hydrology criteria, but not the vegetation criterion. Hydrophytic vegetation will likely become established if the area is not disturbed (I.e., mowed and maintained).

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/23/08 County: Will State: Illinois Community ID: Upland Station ID: W03NW-2 Plot ID: S2
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Mowed, grassed waterway.**
 NRCS slide review site

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Solidago altissima</i>	FACU	HERB	15	7. <i>Taraxacum officinale</i>	FACU	HERB	5
2. <i>Bromus inermis</i>	UPL	HERB	30	8. <i>Pinus strobus*</i>	FACU	TREE	10
3. <i>Poa pratensis</i>	FAC-	HERB	20	9. <i>Rosa multiflora</i>	FACU	SHRUB	15
4. <i>Ambrosia trifida</i>	FAC+	HERB	5	10. <i>Cornus racemosa</i>	UPL	SHRUB	10
5. <i>Daucus carota</i>	UPL	HERB	5	11. <i>Morus alba</i>	FAC	TREE	5
6. <i>Helianthus grosseserratus</i>	FACW-	HERB	5	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **17%**

Remarks: **Hydrophytic vegetation is not dominant.**
 *Tree planted

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is not present.**
 NRCS Slide Review

SOILS

Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes		Series Drainage Class: Poorly drained							
Taxonomy (Subgroup): Typic Endoaquolls		Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Profile Description:									
Top	Bottom	Matrix Color	Mottle Colors	Mottle	Texture, moisture, consistency, organic material, and other soil characteristics.				
Depth	Depth	Horizon	(Munsell Moist):	(Munsell Moist):	Abundance/Contrast				
0	10	Ap	10YR 3/2	NA	NA	NA	NA	NA	silty clay loam, moist, friable
10	13	Ap	10YR 3/1	NA	NA	NA	NA	NA	silty clay loam, moist, friable
13	23	B	10YR 5/1	10YR 5/6	common	distinct			clay, moist, friable

Hydric Soil Indicators²:

- | | |
|---|--|
| <input type="checkbox"/> (A1) Histosol
<input type="checkbox"/> (A2) Histic Epipedon
<input type="checkbox"/> (A3) Black Histic
<input type="checkbox"/> (A4) Hydrogen Sulfide
<input type="checkbox"/> (A5) Stratified Layers
<input type="checkbox"/> (A10) 2 cm Muck
<input type="checkbox"/> (A11) Depleted Below Dark Surface
<input type="checkbox"/> (A12) Thick Dark Surface
<input type="checkbox"/> (S1) Sandy Mucky Mineral
<input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat | <input type="checkbox"/> (S4) Sandy Gleyed Matrix
<input type="checkbox"/> (S5) Sandy Redox
<input type="checkbox"/> (S6) Stripped Matrix
<input type="checkbox"/> (F1) Loamy Mucky Mineral
<input type="checkbox"/> (F2) Loamy Gleyed Matrix
<input type="checkbox"/> (F3) Depleted Matrix
<input type="checkbox"/> (F6) Redox Dark Surface
<input type="checkbox"/> (F7) Depleted Dark Surface
<input type="checkbox"/> (F8) Redox Depressions |
|---|--|

Indicators for Problematic Hydric Soils¹:

- | |
|---|
| <input type="checkbox"/> (A16) Coast Prairie Redox
<input type="checkbox"/> (F12) Iron-Manganese Masses
<input type="checkbox"/> Other (Explain in Remarks) |
|---|

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are not present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Remarks: **This plot is not located in wetland.**

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/22/08 County: Will State: Illinois Community ID: Upland Station ID: W03NW-5 Plot ID: NA
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **This location is an upland, old field habitat.**
 NRCS slide review site

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Bromus inermis</i>	UPL	HERB	--	7. <i>Lonicera tatarica</i>	FACU	SHRUB	--
2. <i>Setaria faberi</i>	FACU+	HERB	--	8. --	--	--	--
3. <i>Poa pratensis</i>	FAC-	HERB	--	9. --	--	--	--
4. <i>Asclepias syriaca</i>	UPL	HERB	--	10. --	--	--	--
5. <i>Solidago altissima</i>	FACU	HERB	--	11. --	--	--	--
6. <i>Morus alba</i>	FAC	TREE	--	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **0%**

Remarks: **Hydrophytic vegetation is not dominant.**
 Cover percentages not recorded. Upland grasses are dominant.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is not present.**
 NRCS Slide Review

SOILS

Map Unit Name: **Markham silt loam, 4 to 6 percent slopes** Series Drainage Class: **Moderately well drained**
 Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? **No soil core collected*** Yes ☐ No ☐

Profile Description:									
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):		Mottle Colors (Munsell Moist):		Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	

Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat	Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)
--	---

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Upland soils are mapped.**
 *Wetland vegetation and hydrology are absent so no soil core collected.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Remarks: **This plot is not located in wetland.**
 *Wetland vegetation and hydrology are absent so no soil core collected.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport						Date: 09/23/08																																																																		
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Investigator #1: Sarah Johnson #2: Tory Schultz						State: Illinois																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: Upland																																																																		
Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Station ID: W03NW-6																																																																		
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: S1																																																																		
Remarks: Plot is located in a low lying, disturbed area in tree plantation and was investigated as a possible extension of W03NW-3. There are potential drain tiles in the investigation area.																																																																								
VEGETATION																																																																								
Dominant Species (50/20 Rule)																																																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 15%;"></th> <th style="width: 15%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr> <td>1. <i>Solidago altissima</i></td> <td>FACU</td> <td>HERB</td> <td>15</td> <td></td> <td>7. <i>Poa pratensis</i></td> <td>FAC-</td> <td>HERB</td> <td>30</td> </tr> <tr> <td>2. <i>Daucus carota</i></td> <td>UPL</td> <td>HERB</td> <td>10</td> <td></td> <td>8. <i>Ambrosia artemisiifolia</i></td> <td>FACU</td> <td>HERB</td> <td>10</td> </tr> <tr> <td>3. <i>Asclepias syriaca</i></td> <td>UPL</td> <td>HERB</td> <td>5</td> <td></td> <td>9. <i>Juglans nigra</i></td> <td>FACU</td> <td>TREE</td> <td>10</td> </tr> <tr> <td>4. <i>Trifolium pratense</i></td> <td>FACU+</td> <td>HERB</td> <td>15</td> <td></td> <td>10. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>5. <i>Agrostis alba</i></td> <td>FACW</td> <td>HERB</td> <td>15</td> <td></td> <td>11. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>6. <i>Aster lateriflorus</i></td> <td>FACW-</td> <td>HERB</td> <td>10</td> <td></td> <td>12. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover	1. <i>Solidago altissima</i>	FACU	HERB	15		7. <i>Poa pratensis</i>	FAC-	HERB	30	2. <i>Daucus carota</i>	UPL	HERB	10		8. <i>Ambrosia artemisiifolia</i>	FACU	HERB	10	3. <i>Asclepias syriaca</i>	UPL	HERB	5		9. <i>Juglans nigra</i>	FACU	TREE	10	4. <i>Trifolium pratense</i>	FACU+	HERB	15		10. --	--	--	--	5. <i>Agrostis alba</i>	FACW	HERB	15		11. --	--	--	--	6. <i>Aster lateriflorus</i>	FACW-	HERB	10		12. --	--	--	--
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					² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																																			
Remarks: Hydric soils are present within small disturbed low area. Tire tracks present.																																																																								
WETLAND DETERMINATION																																																																								
Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																			
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																			
Remarks: This plot is not located in wetland. Hydric soils are present, but wetland hydrology and hydrophytic vegetation do not support wetland determination.																																																																								

DATA FORM																																																																								
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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/23/08 County: Will State: Illinois Community ID: Upland Station ID: W03NW-9 Plot ID: NA
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **NRCS slide review site near tile feature. Plot is in upland old field.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Pinus strobus</i> *	FACU	TREE	--	7. <i>Prunus serotina</i>	FACU	TREE	--
2. <i>Daucus carota</i>	UPL	HERB	--	8. <i>Quercus alba</i> *	FACU	TREE	--
3. <i>Solidago altissima</i>	FACU	HERB	--	9. <i>Rubus occidentalis</i>	UPL	SHRUB	--
4. <i>Bromus inermis</i>	UPL	HERB	--	10. <i>Fraxinus sp.</i>	unknown	TREE	--
5. <i>Aster pilosus</i>	FACU+	HERB	--	11. <i>Juglans nigra</i>	FACU	TREE	--
6. <i>Toxicodendron radicans</i>	FAC+	SHRUB	--	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **0%**

Remarks: **Hydrophytic vegetation is not dominant.**

Cover percentages not recorded. *Planted tree.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
---	--

Remarks: **Wetland hydrology is not present.**

NRCS Slide Review

SOILS

Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroder	Series Drainage Class: Moderately well drained																																										
Taxonomy (Subgroup): Oxyaquic Hapludalfs	Field Observations Confirm Mapped Type? No soil core collected* Yes <input type="checkbox"/> No <input type="checkbox"/>																																										
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Hydric Soil Indicators²:

- _____ (A1) Histosol
- _____ (A2) Histic Epipedon
- _____ (A3) Black Histic
- _____ (A4) Hydrogen Sulfide
- _____ (A5) Stratified Layers
- _____ (A10) 2 cm Muck
- _____ (A11) Depleted Below Dark Surface
- _____ (A12) Thick Dark Surface
- _____ (S1) Sandy Mucky Mineral
- _____ (S3) 5 cm Mucky Peat or Peat

- _____ (S4) Sandy Gleyed Matrix
- _____ (S5) Sandy Redox
- _____ (S6) Stripped Matrix
- _____ (F1) Loamy Mucky Mineral
- _____ (F2) Loamy Gleyed Matrix
- _____ (F3) Depleted Matrix
- _____ (F6) Redox Dark Surface
- _____ (F7) Depleted Dark Surface
- _____ (F8) Redox Depressions

Indicators for Problematic Hydric Soils¹:

- _____ (A16) Coast Prairie Redox
- _____ (F12) Iron-Manganese Masses
- _____ Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Upland soils are mapped.**

*No soil core collected since vegetation and hydrology parameters absent

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? No soil core collected* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Remarks: **This plot is not located in wetland.**

*No soil core collected since vegetation and hydrology parameters absent

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/23/08 County: Will State: Illinois Community ID: Upland Station ID: W03NW-10 Plot ID: NA
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **NRCS slide review site.**

Plot is on part of an access trail that appeared to be a drainage feature on aerial.

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Melilotus alba</i>	FACU	HERB	--	7. --	--	--	--
2. <i>Daucus carota</i>	UPL	HERB	--	8. --	--	--	--
3. <i>Solidago altissima</i>	FACU	HERB	--	9. --	--	--	--
4. <i>Bromus inermis</i>	UPL	HERB	--	10. --	--	--	--
5. <i>Quercus rubra</i> *	FACU	TREE	--	11. --	--	--	--
6. <i>Quercus alba</i> *	FACU	TREE	--	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **0%**

Remarks: **Hydrophytic vegetation is not dominant.**

No cover percentages recorded. *Planted tree.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
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Remarks: **Wetland hydrology is not present.**

NRCS Slide Review

SOILS

Map Unit Name: Markam silt loam, 4 to 6 percent slopes, eroded		Series Drainage Class: Moderately well drained																																										
Taxonomy (Subgroup): Oxyaquic Hapludalfs		Field Observations Confirm Mapped Type? No soil core collected* Yes <input type="checkbox"/> No <input type="checkbox"/>																																										
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Hydric Soil Indicators2:

- _____ (A1) Histosol
- _____ (A2) Histic Epipedon
- _____ (A3) Black Histic
- _____ (A4) Hydrogen Sulfide
- _____ (A5) Stratified Layers
- _____ (A10) 2 cm Muck
- _____ (A11) Depleted Below Dark Surface
- _____ (A12) Thick Dark Surface
- _____ (S1) Sandy Mucky Mineral
- _____ (S3) 5 cm Mucky Peat or Peat

- _____ (S4) Sandy Gleyed Matrix
- _____ (S5) Sandy Redox
- _____ (S6) Stripped Matrix
- _____ (F1) Loamy Mucky Mineral
- _____ (F2) Loamy Gleyed Matrix
- _____ (F3) Depleted Matrix
- _____ (F6) Redox Dark Surface
- _____ (F7) Depleted Dark Surface
- _____ (F8) Redox Depressions

Indicators for Problematic Hydric Soils1:

- _____ (A16) Coast Prairie Redox
- _____ (F12) Iron-Manganese Masses
- _____ Other (Explain in Remarks)

1Indicators of hydrophytic vegetation and wetland hydrology must be present.

2Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Upland soils are mapped.**

*No soil core collected since wetland vegetation and hydrology parameters absent.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? No soil core collected* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Remarks: **This plot is not located in wetland.**

*No soil core collected since wetland vegetation and hydrology parameters absent.

Site: Inaugural South Suburban Airport
 Locale: W03SE1
 Date: September 9, 2008 30 minutes
 By: AECOM: S. Johnson; T. Schultz
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W03SE1.inv

FLORISTIC QUALITY DATA	Native	6	50.0%	Adventive	6	50.0%
6 NATIVE SPECIES	Tree	0	0.0%	Tree	1	8.3%
12 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
2.5 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.3 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.1 NATIVE FQI	P-Forb	1	8.3%	P-Forb	0	0.0%
4.3 W/Adventives	B-Forb	0	0.0%	B-Forb	1	8.3%
-2.3 NATIVE MEAN W	A-Forb	3	25.0%	A-Forb	1	8.3%
-0.7 W/Adventives	P-Grass	1	8.3%	P-Grass	2	16.7%
AVG: Fac. Wetland (-)	A-Grass	1	8.3%	A-Grass	1	8.3%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMARET	0 AMARANTHUS RETROFLEXUS	2 FACU+	Ad A-Forb	ROUGH AMARANTH
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
LACSER	0 LACTUCA SERRIOLA	0 FAC	Ad B-Forb	PRICKLY LETTUCE
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PANCAP	1 Panicum capillare	0 FAC	Nt A-Grass	OLD WITCH GRASS
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLHYS	7 Polygonum hydropiperoides	-5 OBL	Nt P-Forb	MILD WATER PEPPER
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																				
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VEGETATION Dominant Species (50/20 Rule) <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 40%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 30%;"></th> <th style="width: 40%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr> <td>1. <i>Polygonum hydropiper</i></td> <td>OBL</td> <td>HERB</td> <td>15</td> <td></td> <td>7. <i>Abutilon theophrasti</i></td> <td>FACU-</td> <td>HERB</td> <td>2</td> </tr> <tr> <td>2. <i>Bromus inermis</i></td> <td>UPL</td> <td>HERB</td> <td>30</td> <td></td> <td>8. <i>Lactuca serriola</i></td> <td>FAC</td> <td>HERB</td> <td>2</td> </tr> <tr> <td>3. <i>Setaria faberi</i></td> <td>FACU+</td> <td>HERB</td> <td>10</td> <td></td> <td>9. <i>Polygonum hydropiperoides</i></td> <td>OBL</td> <td>HERB</td> <td>15</td> </tr> <tr> <td>4. <i>Phalaris arundinacea</i></td> <td>FACW+</td> <td>HERB</td> <td>60</td> <td></td> <td>10. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>5. <i>Ambrosia trifida</i></td> <td>FAC+</td> <td>HERB</td> <td>20</td> <td></td> <td>11. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>6. <i>Morus alba</i></td> <td>FAC</td> <td>TREE</td> <td>2</td> <td></td> <td>12. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover	1. <i>Polygonum hydropiper</i>	OBL	HERB	15		7. <i>Abutilon theophrasti</i>	FACU-	HERB	2	2. <i>Bromus inermis</i>	UPL	HERB	30		8. <i>Lactuca serriola</i>	FAC	HERB	2	3. <i>Setaria faberi</i>	FACU+	HERB	10		9. <i>Polygonum hydropiperoides</i>	OBL	HERB	15	4. <i>Phalaris arundinacea</i>	FACW+	HERB	60		10. --	--	--	--	5. <i>Ambrosia trifida</i>	FAC+	HERB	20		11. --	--	--	--	6. <i>Morus alba</i>	FAC	TREE	2	
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Remarks: Hydric soils are present. Drummer silty clay loam is the adjacent mapped unit.																																																																				
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Remarks: This plot is not located in wetland.																																																																															

Site: Inaugural South Suburban Airport
 Locale: W03SW1
 Date: September 9, 2008 30 minutes
 By: AECOM; S. Johnson; T. Schultz
 File: c:\FQA\studies\SSA\W03SW1.inv

FLORISTIC QUALITY DATA	Native	7	70.0%	Adventive	3	30.0%
7 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
10 Total Species	Shrub	1	10.0%	Shrub	0	0.0%
2.4 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.4 NATIVE FQI	P-Forb	3	30.0%	P-Forb	1	10.0%
5.4 W/Adventives	B-Forb	0	0.0%	B-Forb	1	10.0%
-1.6 NATIVE MEAN W	A-Forb	2	20.0%	A-Forb	0	0.0%
-0.2 W/Adventives	P-Grass	0	0.0%	P-Grass	1	10.0%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	1	10.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ASTPUP	8 Aster puniceus	-5 OBL	Nt P-Forb	BRISTLY ASTER
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
CXVULP	2 Carex vulpinoidea	-5 OBL	Nt P-Sedge	BROWN FOX SEDGE
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PLAMAJ	0 PLANTAGO MAJOR	-1 FAC+	Ad P-Forb	COMMON PLANTAIN
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport	Date: 09/10/08
Applicant/Owner: Illinois Department of Transportation	County: Will
Investigator #1: Sarah Johnson #2: Tory Schultz	State: Illinois
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: PEM
Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Station ID: W03SW-1
Is The Area A Potential Problem Area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, define below.)	Plot ID: S1

Remarks: **Small channel depression within a grassed waterway. Drain tile appears to have been removed.**
 NRCS slide review site

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Carex vulpinoidea</i>	OBL	HERB	5	7. <i>Aster paludosus</i>	FACW	HERB	5
2. <i>Helianthus grosseserratus</i>	FACW-	HERB	10	8. <i>Rubus occidentalis</i>	UPL	SHRUB	5
3. <i>Polygonum hydropiper</i>	OBL	HERB	5	9. <i>Pastinaca sativa</i>	UPL	HERB	10
4. <i>Ambrosia trifida</i>	FAC+	HERB	5	10. <i>Plantago major</i>	FAC+	HERB	7
5. <i>Geum canadense</i>	FAC	HERB	7	11. --	--	--	--
6. <i>Bromus inermis</i>	UPL	HERB	10	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **50%***

Remarks: ***Hydrophytic vegetation is not dominant using the 50/20 rule calculation but passes using the FAC neutral test.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks <input checked="" type="checkbox"/> Drift Lines _____ Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches <input checked="" type="checkbox"/> Water-Stained Leaves _____ Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is present.**
 Cut-bank present NRCS Slide Review

SOILS

Map Unit Name: **Markham silt loam/Drummer silty clay loam** Series Drainage Class: **Moderately well drained/poorly drained**
 Taxonomy (Subgroup): **Oxyaquic Hapludalfs/Typic Endoaq** Field Observations Confirm Mapped Type? ☒ Yes ☐ No

Profile Description:									
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.			
0	3	Ap	10YR	3/2	NA	NA	NA	NA	silt loam, moist, friable
3	11	A	10YR	3/2	10YR	5/6	common	dominant	silty clay loam, moist, friable
11	21	A	10YR	5/2	7.5YR	5/8	common	dominant	sandy clay, moist, friable
21	24	B	10YR	5/2	7.5YR	5/8	common	dominant	clay, moist, friable

Hydric Soil Indicators ² :	Indicators for Problematic Hydric Soils ¹ :
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¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Remarks: **This plot is located within a wetland.**

*A positive indicator for hydrophytic vegetation was obtained with the FAC neutral test.

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Remarks: Hydric soils are not present. Profile matches Ashkum profile but does not contain hydric indicators																																																																	
WETLAND DETERMINATION																																																																	
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Remarks: Scour marks show that water moves through the area during rain events, but there is no sign of prolonged inundation. NRCS Slide Review																																																																	
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Map Unit Name: Ashkum silty clay loam, 0 to 2 percent s Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																	
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Remarks: Hydric soils mapped. No soil sample was collected, because wetland vegetation and hydrology were absent. Because of signs of scour observed on the soil surface, the upper layers of the soil were briefly examined for evidence of redox.						¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																											
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Remarks: This plot is not located in a wetland. *Wetland vegetation and hydrology are not present, so a soil sample was not collected.																																																																	

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Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erodec Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																	
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Remarks: Hydric soils are not present. Soil profile appears to be eroded sub-soil surface of Markham																																																																	
WETLAND DETERMINATION																																																																	
Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																												
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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/10/08 County: Will State: Illinois Community ID: Upland Station ID: W03SW-4 Plot ID: S1
Do Normal Circumstances Exist On The Site? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is The Site Significantly Disturbed (Atypical Situation)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Is The Area A Potential Problem Area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, define below.)	

Remarks: **Stressed corn crop on eroded slope**
 NRCS slide review site

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Cyperus esculentus</i>	FAC+	HERB	20		7. --	--	--	--
2. <i>Abutilon theophrasti</i>	FACU-	HERB	5		8. --	--	--	--
3. <i>Setaria faberi</i>	FACU+	HERB	50		9. --	--	--	--
4. <i>Zea mays</i>	UPL	HERB	25		10. --	--	--	--
5. --	--	--	--		11. --	--	--	--
6. --	--	--	--		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **33%**

Remarks: **Hydrophytic vegetation is not dominant.**

HYDROLOGY

X Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge X Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water: <u>NA</u> (in.) Depth to Saturated Soil: <u>NA</u> (in.)	Wetland Hydrology Indicators: X None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
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Remarks: **Wetland hydrology is not present**
 NRCS Slide Review

SOILS

Map Unit Name: **Beecher silt loam, 2 to 4 percent slopes** Series Drainage Class: **Somewhat poorly drained**
 Taxonomy (Subgroup): **Udolic Epiaqualfs** Field Observations Confirm Mapped Type? Yes ☐ No ☒

Profile Description:									
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):		Mottle Colors (Munsell Moist):		Mottle Abundance/Contrast		Texture, moisture, consistency, organic material, and other soil characteristics.
0	4	Ap	10YR	3/1	NA	NA	NA	NA	loam, moist, friable
4	18	A	10YR	2/1	NA	NA	NA	NA	silty clay loam, moist, friable

Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat	Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks) ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)
--	---

Remarks: **Hydric soils are not present. Soil profile appears to have a top layer of sediment deposition over a buried horizon.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is This Sampling Point Within A Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: **This plot is not located within a wetland.**

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/10/08 County: Will State: Illinois Community ID: Upland Station ID: W03SW-5 Plot ID: S1
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Tiled grassed waterway**
 NRCS slide review site

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Bromus inermis</i>	UPL	HERB	--		7. <i>Lactuca canadensis</i>	FACU+	HERB	--
2. <i>Prunus americana</i>	UPL	TREE	--		8. <i>Solanum dulcamara</i>	FAC	HERB	--
3. <i>Solidago altissima</i>	FACU*	HERB	--		9. --	--	--	--
4. <i>Lonicera tatarica</i>	FACU*	SHRUB	--		10. --	--	--	--
5. <i>Rubus occidentalis</i>	UPL	SHRUB	--		11. --	--	--	--
6. <i>Pastinaca sativa</i>	UPL	HERB	--		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **0%**

Remarks: **Hydrophytic vegetation is not dominant.**
 Cover percentages not recorded.

HYDROLOGY

X Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge X Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water: <u>NA</u> (in.) Depth to Saturated Soil: <u>NA</u> (in.)	Wetland Hydrology Indicators: X None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
---	---

Remarks: **Wetland hydrology is not present.**
 NRCS Slide Review

SOILS

Map Unit Name: **Markham silt loam, 4 to 6 percent slopes, eroder** Series Drainage Class: **Moderately well drained**
 Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? _____ Yes ☒ No

Profile Description:

Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.
0	12	Ap	10YR 3/1	NA NA	NA NA	silt clay, moist, friable

Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions	Indicators for Problematic Hydric Soils ¹ : _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks) ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)
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Remarks: **Hydric soils are not present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? _____ Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? _____ Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? _____ Yes <input checked="" type="checkbox"/> No	Is This Sampling Point Within A Wetland? _____ Yes <input checked="" type="checkbox"/> No

Remarks: **This plot is not located within a wetland.**

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz						Date: 09/11/08 County: Will State: Illinois Community ID: Upland Station ID: W03SW-6 Plot ID: S1																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)																																																																	
Remarks: Field drainage tile outlet. Sparsely vegetated opening in middle of corn field. NRCS slide review site																																																																	
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Dominant Species (50/20 Rule)																																																																	
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SOILS																																																																	
Map Unit Name: Drummer silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? Soil core not collected* Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																																																																	
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Remarks: Hydric soils are mapped. No hydric indicators present in upper 12 inches. *Dominant upland vegetation and absence of wetland hydrology, so no soil core collected. Upper																																																																	
WETLAND DETERMINATION																																																																	
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Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: Upland																																																																		
Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Station ID: W03SW-7																																																																		
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: S1																																																																		
Remarks: Low-lying drainage area is surrounded by a tree plantation. Probable drain tile. NRCS slide review site																																																																								
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Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)																																																																								
Remarks: Wetland hydrology is present. Agricultural drainage tile is functioning NRCS Slide Review and landscape position.																																																																								
SOILS																																																																								
Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained																																																																								
Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																								
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Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.																																																																		
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10	11	Ap	10YR 7/4	NA NA	NA NA	gravel, moist, rigid																																																																		
11	13	A	10YR 3/2	10YR 5/6	common distinct	silty clay loam, moist, friable																																																																		
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Remarks: Hydric soils are not present. Soil profile appears to be disturbed, possibly from past excavation.																																																																								
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Remarks: This plot is not located in wetland. Farm tile is effective in draining area. Wetland hydrology present, hydric soils and hydrophytic vegetation absent.																																																																								

Site: Inaugural South Suburban Airport
 Locale: BWCW03
 Date: September 11, 2008 1 hours
 By: AECOM: S.Johnson; T. Schultz
 File: 1:\work\103576\wp\Environmental\Wetland Delineation\Completed Field Forms\Revised
 Forms\W03\FQI\BWCW03.inv

FLORISTIC QUALITY DATA	Native	25	80.6%	Adventive	6	19.4%
25 NATIVE SPECIES	Tree	1	3.2%	Tree	2	6.5%
31 Total Species	Shrub	4	12.9%	Shrub	0	0.0%
2.7 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.2 W/Adventives	H-Vine	1	3.2%	H-Vine	0	0.0%
13.6 NATIVE FQI	P-Forb	8	25.8%	P-Forb	0	0.0%
12.2 W/Adventives	B-Forb	0	0.0%	B-Forb	1	3.2%
-2.7 NATIVE MEAN W	A-Forb	4	12.9%	A-Forb	2	6.5%
-2.0 W/Adventives	P-Grass	2	6.5%	P-Grass	1	3.2%
AVG: Fac. Wetland	A-Grass	2	6.5%	A-Grass	0	0.0%
	P-Sedge	2	6.5%	P-Sedge	0	0.0%
	A-Sedge	1	3.2%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0	Acer negundo	-2	FACW-	Nt Tree	BOX ELDER
AMARET	0	AMARANTHUS RETROFLEXUS	2	FACU+	Ad A-Forb	ROUGH AMARANTH
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOCAN	4	Apocynum cannabinum	0	FAC	Nt P-Forb	INDIAN HEMP
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1	Bidens frondosa	-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CYPRIV	4	Cyperus rivularis	-4	FACW+	Nt A-Sedge	BROOK NUT SEDGE
ECHCRU	0	Echinochloa crusgalli	-3	FACW	Nt A-Grass	BARNYARD GRASS
ECHLOB	5	Echinocystis lobata	-2	FACW-	Nt H-Vine	WILD CUCUMBER
ELYVIR	4	Elymus virginicus	-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
EUPPER	4	Eupatorium perfoliatum	-4	FACW+	Nt P-Forb	COMMON BONESET
HELGR0	2	Helianthus grosseserratus	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
HIBTRI	0	HIBISCUS TRIONUM	5	UPL	Ad A-Forb	FLOWER-OF-AN-HOUR
LEEORY	4	Leersia oryzoides	-5	OBL	Nt P-Grass	RICE CUT GRASS
MORALB	0	MORUS ALBA	0	FAC	Ad Tree	WHITE MULBERRY
PANDII	0	Panicum dichotomiflorum	-2	FACW-	Nt A-Grass	KNEE GRASS
PASSAT	0	PASTINACA SATIVA	5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad P-Grass	REED CANARY GRASS
POLHYR	2	Polygonum hydropiper	-3	FACW	Nt A-Forb	WATER PEPPER
POLHYS	7	Polygonum hydropiperoides	-5	OBL	Nt P-Forb	MILD WATER PEPPER
POLPEN	0	Polygonum pensylvanicum	-4	FACW+	Nt A-Forb	PINKWEED
PRUVIR	3	Prunus virginiana	3	[FACU]	Nt Shrub	CHOKE CHERRY
SALDIS	2	Salix discolor	-3	FACW	Nt Shrub	PUSSY WILLOW
SALFRA	0	SALIX FRAGILIS	-1	FAC+	Ad Tree	CRACK WILLOW
SALINT	1	Salix interior	-5	OBL	Nt Shrub	SANDBAR WILLOW

SAMCAN	1	<i>Sambucus canadensis</i>	-2	FACW-	Nt	Shrub	ELDERBERRY
SCIATR	4	<i>Scirpus atrovirens</i>	-5	OBL	Nt	P-Sedge	DARK GREEN RUSH
SCIVAC	5	<i>Scirpus validus creber</i>	-5	OBL	Nt	P-Sedge	GREAT BULRUSH
STATEH	5	<i>Stachys tenuifolia hispida</i>	-4	FACW+	Nt	P-Forb	MARSH HEDGE NETTLE
THADAD	5	<i>Thalictrum dasycarpum</i>	-2	FACW-	Nt	P-Forb	PURPLE MEADOW RUE
TRAOHI	2	<i>Tradescantia ohiensis</i>	2	FACU+	Nt	P-Forb	COMMON SPIDERWORT

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz						Date: 09/11/08 County: Will State: Illinois Community ID: Stream Station ID: BWC-W03 Plot ID: S1																																																																		
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Remarks: Hydrophytic vegetation is dominant.																																																																								
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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 09/11/08 County: Will State: Illinois Community ID: Upland Station ID: BWC-W03 Plot ID: S3
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, define below.)	

Remarks: **Agricultural drain tile from corn field into Black Walnut Creek.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Bromus inermis</i>	UPL	HERB	10	7. --	--	--	--
2. <i>Setaria faberi</i>	FACU+	HERB	20	8. --	--	--	--
3. <i>Phalaris arundinacea</i>	FACW+	HERB	50	9. --	--	--	--
4. <i>Helianthus grosseserratus</i>	FACW-	HERB	15	10. --	--	--	--
5. <i>Amaranthus retroflexus</i>	FACU+	HERB	5	11. --	--	--	--
6. --	--	--	--	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **50%**

Remarks: **Hydrophytic vegetation is not dominant.**

Point at very edge of transition from wetland to upland

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches <input checked="" type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is present. Drainage tile is present.**

SOILS

Map Unit Name: Drummer silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained									
Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
Profile Description:									
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.			
0	15	A	10YR 3/1	10YR 4/6	few distinct	silty clay loam, moist, friable			
15	23	A2	10YR 2/1	NA NA	NA NA	clay loam, moist, friable			

Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat	Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix <input checked="" type="checkbox"/> (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)
--	---

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Remarks: This plot meets the soil and hydrology criteria, but not the vegetation criterion.
 Hydrophytic vegetation will likely become more established if the area is not disturbed.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
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Profile Description:																																																																								
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0	12	A	10YR 3/2	7.5YR 5/8	few distinct	clay loam, moist, friable																																																																		
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Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																			
Remarks: This plot is not located in a wetland.																																																																								

Appendix E

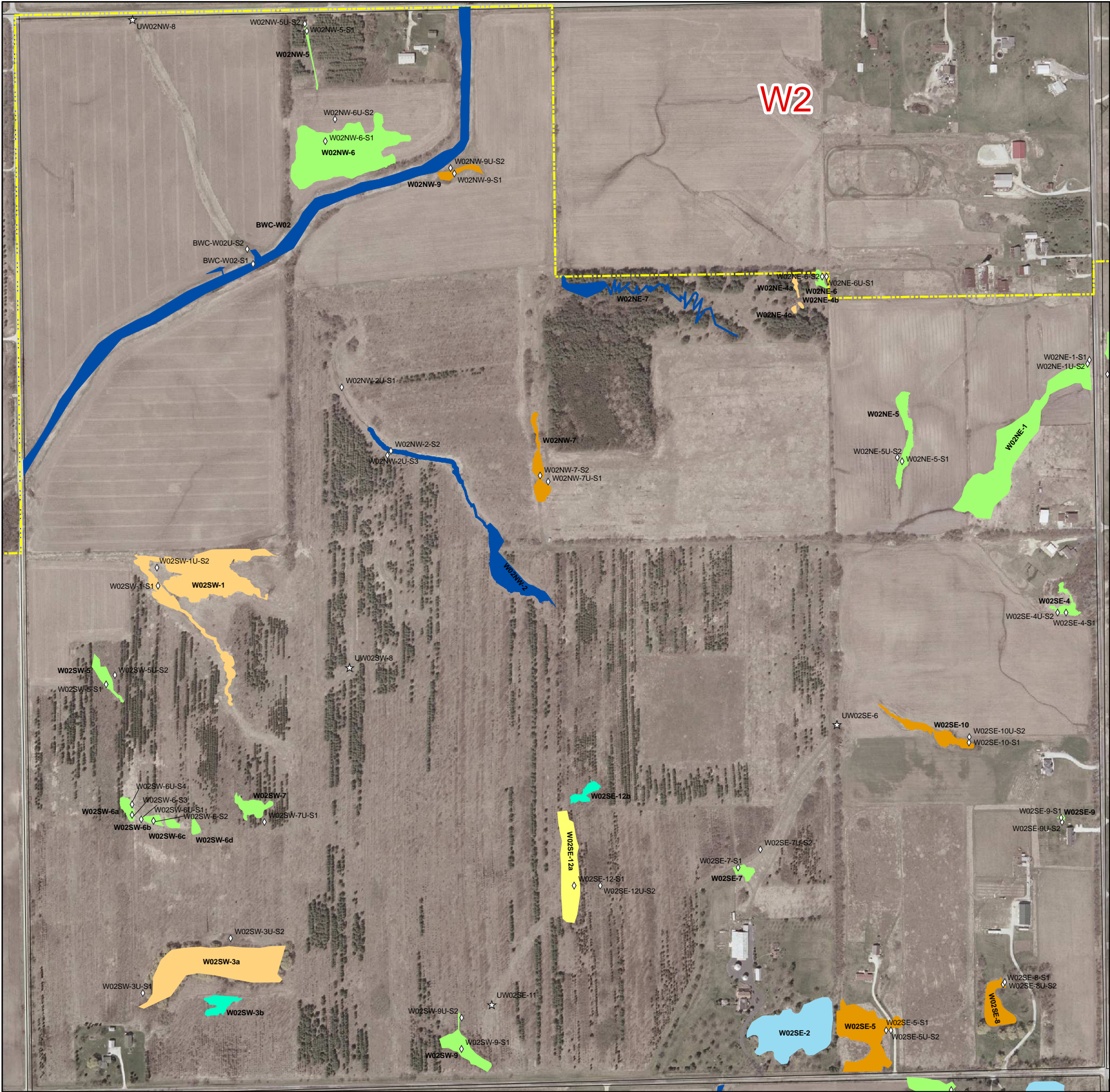
Section Will 02

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
W02NE-1-S1	21	Yes	11.4	
W02NE-1U-S2	21	No		
W02NE-4abc	NA	NA	9.0	
W02NE-5-S1	21	Yes	5.9	Photo S
W02NE-5U-S2	20	No		
W02NE-6-S2	NA	Na	7.8	no soil core
W02NE-6U-S1	20	Yes		
W02NE-7	NA	NA	6.9	
W02NW-2-S2	13	Yes	13.6	
W02NW-2U-S1	20	No		
W02NW-2U-S3	20	No		
W02NW-5-S1	9	Yes	4.9	
W02NW-5U-S2	18	No		
W02NW-6-S1	21	Yes	0.0	
W02NW-6U-S2	20	Yes		corn field
W02NW-7-S2	20	Yes	20.1	
W02NW-7U-S1	21	No		
UW02NW-8	NA	NA	NA	Photo SE
W02NW-9-S1	20	Yes	6.3	
W02NW-9U-S2	21	Yes		
W02SE-2	NA	NA	NA	No data form, excavated pond
W02SE-4-S1	20	Yes	4.1	
W02SE-4U-S2	21	Yes		
W02SE-5-S1	20	Yes	12.6	
W02SE-5U-S2	21	Yes		
UW02SE-6	NA	NA	NA	Photo N
W02SE-7-S1	20	Yes	6.0	
W02SE-7U-S2	20	Yes		
W02SE-8-S1	20	Yes	9.3	
W02SE-8U-S2	20	No		
W02SE-9-S1	21	Yes	6.0	
W02SE-9U-S2	21	No		
W02SE-10-S1	20	Yes	8.0	
W02SE-10U-S2	21	No		
UW02SE-11	NA	NA	NA	
W02SE-12-S1	21	Yes	9.0	
W02SE-12U-S2	20	Yes		
W02SW-1-S1	21	Yes	6.9	
W02SW-1U-S2	21	Yes		
W02SW-3-S2	20	Yes	7.2	
W02SW-3U-S1	20	No		

Appendix E
Section Will 02

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
W02SW-5-S1	7	Yes	6.6	
W02SW-5U-S2	15	No		
W02SW-6U-S1	20	No	0.0	
W02SW-6-S2	22	Yes		
W02SW-6-S3	20	Yes		
W02SW-6U-S4	23	No		
W02SW-7-S2	NA	NA	8.0	No soil core
W02SW-7U-S1	20	Yes		
UW02SW-8	NA	NA	NA	
W02SW-9-S1	25	Yes	9.8	
W02SW-9U-S2	20	No		
BWC-W02-S1	24	Yes	12.8	Photo SW
BWC-W02U-S2	20	No		

NA = not applicable



Legend

Wetland Type

- PEM
- PSS
- PFO
- PEM/PFO
- PSS/PEM
- PFO/PSS
- POW
- Stream
- Wetland Complex

2008 Study Boundary

Sections

Upland Soil Cores

Upland Photo Locations

Wetland Soil Cores

N

EXHIBIT E-1F

Will Township Section 2

2008 - 2009 FIELD INVESTIGATION RESULTS

South Suburban Airport

Illinois Department of Transportation
Division of Aeronautics

AECOM

0 250 500 1,000 1,500 Feet

Site: Inaugural South Suburban Airport
 Locale: W02NE1
 Date: October 7, 2008 1 hours
 By: AECOM: A. Amelse; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NE1.inv

FLORISTIC QUALITY DATA	Native	24	70.6%	Adventive	10	29.4%
24 NATIVE SPECIES	Tree	3	8.8%	Tree	0	0.0%
34 Total Species	Shrub	1	2.9%	Shrub	0	0.0%
2.3 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.6 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
11.4 NATIVE FQI	P-Forb	12	35.3%	P-Forb	2	5.9%
9.6 W/Adventives	B-Forb	0	0.0%	B-Forb	1	2.9%
-1.6 NATIVE MEAN W	A-Forb	3	8.8%	A-Forb	2	5.9%
-0.8 W/Adventives	P-Grass	1	2.9%	P-Grass	2	5.9%
AVG: Fac. Wetland (-)	A-Grass	1	2.9%	A-Grass	3	8.8%
	P-Sedge	2	5.9%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	1	2.9%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
ACERUB	7 Acer rubrum	0 FAC	Nt Tree	RED MAPLE
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMAHYB	0 Amaranthus hybridus	5 UPL	Nt A-Forb	GREEN AMARANTH
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
APOCAN	4 Apocynum cannabinum	0 FAC	Nt P-Forb	INDIAN HEMP
ASCINC	4 Asclepias incarnata	-5 OBL	Nt P-Forb	SWAMP MILKWEED
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
CYPSTR	1 Cyperus strigosus	-3 FACW	Nt P-Sedge	LONG-SCALED NUT SEDGE
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
EQUARV	0 Equisetum arvense	0 FAC	Cryptogam	HORSETAIL
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNEFF	7 Juncus effusus	-5 OBL	Nt P-Forb	COMMON RUSH
PANVIR	5 Panicum virgatum	-1 FAC+	Nt P-Grass	SWITCH GRASS
PENSED	5 Penthorum sedoides	-5 OBL	Nt P-Forb	DITCH STONECROP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	0 Prunella vulgaris lanceolata	3 [FACU]	Nt P-Forb	SELF HEAL
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK

SCIATR	4	<i>Scirpus atrovirens</i>	-5	OBL	Nt	P-Sedge	DARK GREEN RUSH
SETFAB	0	<i>SETARIA FABERI</i>	2	FACU+	Ad	A-Grass	GIANT FOXTAIL
SETGLA	0	<i>SETARIA GLAUCA</i>	0	FAC	Ad	A-Grass	YELLOW FOXTAIL
SETITA	0	<i>SETARIA ITALICA</i>	3	FACU	Ad	A-Grass	FOXTAIL MILLET
SOLALT	1	<i>Solidago altissima</i>	3	FACU	Nt	P-Forb	TALL GOLDENROD
SOLGIG	4	<i>Solidago gigantea</i>	-3	FACW	Nt	P-Forb	LATE GOLDENROD
TYPANG	1	<i>Typha angustifolia</i>	-5	OBL	Nt	P-Forb	NARROW-LEAVED CATTAIL
VERHAS	4	<i>Verbena hastata</i>	-4	FACW+	Nt	P-Forb	BLUE VERVAIN

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Robyn West						Date: 10/07/08 County: Will State: Illinois Community ID: PEM Station ID: W02NE-1 Plot ID: SC-1																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Wide grassed drainageway																																																											
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DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Robyn West						Date: 10/07/08 County: Will State: Illinois Community ID: Upland Station ID: W02NE-1 Plot ID: S2																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks:																																																											
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<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other <input type="checkbox"/> No Recorded Data Available				Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)																																																													
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)				Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review.																																																													
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Site: Inaugural South Suburban Airport
 Locale: W02NE4
 Date: May 1, 2009 1 hours
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W02NE4.inv

FLORISTIC QUALITY DATA	Native	6	75.0%	Adventive	2	25.0%
6 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
8 Total Species	Shrub	2	25.0%	Shrub	2	25.0%
3.7 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.8 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
9.0 NATIVE FQI	P-Forb	2	25.0%	P-Forb	0	0.0%
7.8 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.2 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-0.6 W/Adventives	P-Grass	2	25.0%	P-Grass	0	0.0%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
CALCAN	3 Calamagrostis canadensis	-5 OBL	Nt P-Grass	BLUE JOINT GRASS
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
LONTAT	0 LONICERA TATARICA	5 [UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
ROSMUL	0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will Sampling Date: 05/01/08
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NE-4a, b and c
 Investigator(s): T. Radke and R. West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): toe of slope Local relief (concave, convex, none): concave
 Slope %: 1 Lat: 41.37968803 Long: -87.69466122 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silt loam/Ashkum silty clay loam NWI Classification: not mapped; PEM seep

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampling Area within a Wetland?	Yes <u>X</u> No <u> </u>
Hydric Soils Present?	Yes <u>*</u>	No <u> </u>		
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>		
Remarks: Tiles present in seepy area Seepy area at base of hillside; area riddled with tile blowout holes filled with open water *No soil core taken due to high water table; no vegetation plot data recorded. Vegetation inventory recorded a dominance of wetland species.				

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
1. <u>Pinus strobus (planted)</u>			<u>Planted</u>		
2. <u>--</u>					
3. <u>--</u>					
4. <u>--</u>					
5. <u>--</u>					
Total Cover: <u> </u>					Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum (Plot size: <u> </u>) 1. <u>Rubus allegheniensis</u> 2. <u>Rosa multiflora</u> 3. <u>Cornus stolonifera</u> 4. <u>Lonicera tatarica</u> 5. <u>--</u> Total Cover: <u> </u>					
Herb Stratum (Plot size: <u> </u>) 1. <u>Solidago gigantea</u> 2. <u>Elymus virginicus</u> 3. <u>Calamagrostis canadensis</u> 4. <u>Helianthus grosseserratus</u> 5. <u>--</u> 6. <u>--</u> 7. <u>--</u> 8. <u>--</u> 9. <u>--</u> 10. <u>--</u> Total Cover: <u> </u>					Hydrophytic Vegetation Indicators: <u> </u> Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
Woody Vine Stratum (Plot size: <u> </u>) 1. <u>--</u> 2. <u>--</u> Total Cover: <u> </u>					
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.) Hydrophytic vegetation is dominant throughout area. Percent cover not calculated because vegetation plot not selected. Area is a mosaic of upland/wetland shrubs, wetland herbaceous species and planted White pines. Vegetation inventory had dominance of hydrophytic species.					

SOIL

Sampling Point: **W02NE4a, b, c**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes * No

Remarks:

***No core taken due to high water table. Soil surface is saturated and mucky.**
Area is located at the boundary of two mapped soil units, Markham and Ashkum. Ashkum is hydric

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☒ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☒ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☒ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No X Depth (inches): _____
Water Table Present? Yes X No Depth (inches): <6
Saturation Present? Yes X No Depth (inches): <1
(includes capillary fringe)

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Saturated at surface. No core taken due to high water table.
Tile blowout holes had open water at <6 inches.

Site: Inaugural South Suburban Airport
 Locale: W02NE5
 Date: October 7, 2008 30 minutes
 By: AECOM: A. Amelse; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NE5.inv

FLORISTIC QUALITY DATA	Native	14	60.9%	Adventive	9	39.1%
14 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
23 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
1.6 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
5.9 NATIVE FQI	P-Forb	4	17.4%	P-Forb	0	0.0%
4.6 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.0 NATIVE MEAN W	A-Forb	6	26.1%	A-Forb	3	13.0%
-0.3 W/Adventives	P-Grass	1	4.3%	P-Grass	3	13.0%
AVG: Faculative (+)	A-Grass	1	4.3%	A-Grass	3	13.0%
	P-Sedge	2	8.7%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMAHYB	0 Amaranthus hybridus	5 UPL	Nt A-Forb	GREEN AMARANTH
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
CYPESC	0 Cyperus esculentus	-1 [FAC+]	Nt P-Sedge	FIELD NUT SEDGE
CYPSTR	1 Cyperus strigosus	-3 FACW	Nt P-Sedge	LONG-SCALED NUT SEDGE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PANVIR	5 Panicum virgatum	-1 FAC+	Nt P-Grass	SWITCH GRASS
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POACOM	0 POA COMPRESSA	2 FACU+	Ad P-Grass	CANADA BLUE GRASS
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SETITA	0 SETARIA ITALICA	3 FACU	Ad A-Grass	FOXTAIL MILLET
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD

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Investigator #1: Ann Amelse #2: Robyn West						State: Illinois																																																											
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Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, define below.)						Plot ID: S1																																																											
Remarks: Low area in middle of corn field; appears to be a tiled drainageway																																																																	
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Remarks: This plot is not located in a wetland.																																																									

Site: Inaugural South Suburban Airport
 Locale: W02NE6
 Date: May 1, 2009 30 minutes
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NE6.inv

FLORISTIC QUALITY DATA	Native	6	85.7%	Adventive	1	14.3%
6 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
7 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
3.2 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
7.8 NATIVE FQI	P-Forb	4	57.1%	P-Forb	0	0.0%
7.2 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.8 NATIVE MEAN W	A-Forb	2	28.6%	A-Forb	0	0.0%
-2.1 W/Adventives	P-Grass	0	0.0%	P-Grass	1	14.3%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ALLCER	7 Allium cernuum	1 [FAC-]	Nt P-Forb	NODDING WILD ONION
EPICOL	3 Epilobium coloratum	-5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
GALAPA	1 Galium aparine	3 FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEULAT	2 Geum laciniatum trichocarpum	-3 FACW	Nt P-Forb	ROUGH AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
RORPAF	4 Rorippa palustris fernaldiana	-5 OBL	Nt A-Forb	MARSH CRESS

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/1/2009Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NE-6 SC-2Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13ELandform (hillside, terrace, etc.): toe of slope Local relief (concave, convex, none): concaveSlope %: 0 Lat: 41.379632 Long: -87.694785 Datum: NAD83 Illinois EastSoil Unit Name: Ashkum silty clay loam NWI Classification: Not mapped; PEMAre climatic / hydrologic conditions on the site typical for this time of year? Yes X No Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampling Area within a Wetland?	Yes <u>X</u> No <u> </u>
Hydric Soils Present?	Yes <u>*</u>	No <u> </u>		
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>		
Remarks: Grassy area at base of hill with high water table; tile present with several blowouts. *Water table too high to extract soil core				

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1.	--				
2.	--				
3.	--				
4.	--				
5.	--				
Total Cover: <u> </u>					
Sapling/Shrub Stratum	(Plot size: <u> </u>)				Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
1.	--				
2.	--				
3.	--				
4.	--				
5.	--				
Total Cover: <u> </u>					
Herb Stratum	(Plot size: <u> </u>)				Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1.	<u>Helianthus grosseserratus</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	
2.	<u>Phalaris arundinacea</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	
3.	<u>Geum laciniatum</u>	<u>25</u>		<u>FACW</u>	
4.	<u>Epilobium coloratum</u>	<u>10</u>		<u>OBL</u>	
5.	<u>Rorippa palustris</u>	<u>25</u>		<u>OBL</u>	
6.	--				
7.	--				
8.	--				
9.	--				
10.	--				
Total Cover: <u>160</u>					
Woody Vine Stratum	(Plot size: <u> </u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1.	--				
2.	--				
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

Sampling Point: **W02NE-6 SC-2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☒ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes ☒ No ☐

Remarks:

- * **Water table too high to take sample. Probe hole inundated. Mapped hydric--Ashkum silty clay loam**
Wetland vegetation dominated by FACW species and wetland hydrology is present.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☒ Surface Water (A1)
- ☒ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches):
Water Table Present? Yes ☒ No ☐ Depth (inches):
Saturation Present? Yes ☒ No ☐ Depth (inches):
(includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Standing water and open water in tile blowout holes.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/1/2009
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NE-6 SC-1
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 4; T33N; R13E
 Landform (hillside, terrace, etc.): toe of slope Local relief (concave, convex, none): concave
 Slope %: 1 Lat: 41.379632 Long: -87.69478469 Datum: NAD83 Illinois East
 Soil Unit Name: Ashkum silty clay loam NWI Classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____
 Are Vegetation _____ Soil X or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology _____ Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampling Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soils Present? Yes <u>X*</u> No _____	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: *Buried soil horizon from pond excavation on adjacent property; mucky layer at 12"	

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. --				
2. --				
3. --				
4. --				
5. --				
Total Cover: _____				
Sapling/Shrub Stratum	(Plot size: _____)			
1. --				
2. --				
3. --				
4. --				
5. --				
Total Cover: _____				
Herb Stratum	(Plot size: _____)			
1. <u>Bromus inermis</u>		<u>100</u>	<u>Y</u>	<u>UPL</u>
2. --				
3. --				
4. --				
5. --				
6. --				
7. --				
8. --				
9. --				
10. --				
Total Cover: <u>100</u>				
Woody Vine Stratum	(Plot size: _____)			
1. --				
2. --				
Total Cover: _____				

Dominance Test Worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
 Total Number of Dominant Species Across All Strata: 1 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index Worksheet:
 Total % Cover of _____ Multiply by: _____
 OBL species _____ x 1 = 0
 FACW species _____ x 2 = 0
 FAC species _____ x 3 = 0
 FACU species _____ x 4 = 0
 UPL species _____ x 5 = 0
 Column Totals 0 (A) 0 (B)
 Prevalence Index = B/A = #DIV/0!

Hydrophytic Vegetation Indicators:
 _____ Dominance Test is >50%
 _____ Prevalence Index is >3.0*
 _____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation (Explain)
 *Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: **W02NE-6 SC-1**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-12	10YR 4/2	100					Sicl	
12-20	10YR 2/1	100					Sicl	buried muck layer

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☒ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☒ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes ☒ No ☐

Remarks:

A buried mucky hydric soil horizon at 12 inches probably due to excavation of pond on adjacent property and placement of spoil on surface.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____
Water Table Present? Yes ☐ No ☒ Depth (inches): _____
Saturation Present? Yes ☐ No ☒ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Site: Inauagural South Suburban Airport
 Locale: W02NE7
 Date: May 1, 2008 1 hours
 By: AECOM; T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W02NE7.inv
 Notes: Seep-fed stream at base of hill

FLORISTIC QUALITY DATA	Native	6	60.0%	Adventive	4	40.0%
6 NATIVE SPECIES	Tree	0	0.0%	Tree	1	10.0%
10 Total Species	Shrub	1	10.0%	Shrub	2	20.0%
2.8 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.9 NATIVE FQI	P-Forb	3	30.0%	P-Forb	0	0.0%
5.4 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.5 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-0.5 W/Adventives	P-Grass	2	20.0%	P-Grass	1	10.0%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
LEEVIR	7 Leersia virginica	-3 FACW	Nt P-Grass	WHITE GRASS
LONTAT	0 LONICERA TATARICA	5 [UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLGVI	2 Polygonum virginianum	0 FAC	Nt P-Forb	WOODLAND KNOTWEED
ROSMUL	0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will Sampling Date: 1-May-09

Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NE-7

Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E

Landform (hillside, terrace, etc.): Toe of slope Local relief (concave, convex, none): concave

Slope %: 1 Lat: 41.37985449 Long: -87.69771407 Datum: NAD83 Illinois East

Soil Unit Name: Drummer silty clay loam/Ozaukee silt loam NWI Classification: PFO/Stream

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No

Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampling Area within a Wetland?	Yes <u>X</u> No <u> </u>
Hydric Soils Present?	Yes <u>*</u>	No <u> </u>		
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>		
Remarks: Groundwater-and field tile fed stream meandering through forested area at base of slope. *No soil core taken due to inundation and high water table;				

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83%</u> (A/B)
1. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum (Plot size: <u> </u>)					
1. <u>Cornus racemosa</u>	<u> </u>	<u> </u>	<u>Y</u>	<u>FACW</u>	
2. <u>Morus alba</u>	<u> </u>	<u> </u>	<u>Y</u>	<u>FAC</u>	
3. <u>Lonicera tatarica</u>	<u> </u>	<u> </u>	<u>Y</u>	<u>UPL</u>	
Total Cover: <u> </u>					
Herb Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Indicators: <u> </u> Dominance Test is >50% <u> </u> Prevalence Index is *3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Elymus virginicus</u>	<u> </u>	<u> </u>	<u>Y</u>	<u>FACW</u>	
2. <u>Geum canadense</u>	<u> </u>	<u> </u>	<u>Y</u>	<u>FAC</u>	
3. <u>Polygonum virginianum</u>	<u> </u>	<u> </u>	<u>Y</u>	<u>FAC</u>	
4. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					
Woody Vine Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u>--</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					

Remarks: (Include photo numbers here or on a separate sheet.)
Vegetation percentages not quantified; species listed are prevalent in delineated area

SOILSampling Point: **W02NE-7****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes * No

Remarks:

Hydric soils mapped in part. *No soil core taken--stream inundated.

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

☒ Surface Water (A1)
☒ High Water Table (A2)
☒ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☒ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☒ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No Depth (inches): 2-4
Water Table Present? Yes X No Depth (inches): Surface
Saturation Present? Yes X No Depth (inches): Surface
(includes capillary fringe)

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Wetland hydrology is present.
Stream is fed by field tile outlets from upland fields to the south and from hillside seepage

Site: Inaugural South Suburban Airport
 Locale: W02NW2
 Date: April 24, 2009 15 minutes
 By: AECOM; T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NW2.inv

FLORISTIC QUALITY DATA	Native	14	66.7%	Adventive	7	33.3%
14 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
21 Total Species	Shrub	0	0.0%	Shrub	1	4.8%
3.6 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.4 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
13.6 NATIVE FQI	P-Forb	5	23.8%	P-Forb	1	4.8%
11.1 W/Adventives	B-Forb	0	0.0%	B-Forb	2	9.5%
-3.4 NATIVE MEAN W	A-Forb	1	4.8%	A-Forb	0	0.0%
-1.5 W/Adventives	P-Grass	3	14.3%	P-Grass	3	14.3%
AVG: Fac. Wetland	A-Grass	1	4.8%	A-Grass	0	0.0%
	P-Sedge	4	19.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
ANDGER	5 Andropogon gerardii	1 FAC-	Nt P-Grass	BIG BLUESTEM GRASS
ASCINC	4 Asclepias incarnata	-5 OBL	Nt P-Forb	SWAMP MILKWEED
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
CALCAN	3 Calamagrostis canadensis	-5 OBL	Nt P-Grass	BLUE JOINT GRASS
CXCRIS	4 Carex cristatella	-4 FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CXLACU	6 Carex lacustris	-5 OBL	Nt P-Sedge	COMMON LAKE SEDGE
CXSTRI	5 Carex stricta	-5 OBL	Nt P-Sedge	COMMON TUSsock SEDGE
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
IRIVIS	5 Iris virginica shrevei	-5 OBL	Nt P-Forb	BLUE FLAG
LONTAT	0 LONICERA TATARICA	5 [UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
MELALB	0 MELILOTUS ALBA	3 FACU	Ad B-Forb	WHITE SWEET CLOVER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POTSIS	4 Potentilla simplex	4 FACU-	Nt P-Forb	COMMON CINQUEFOIL
RORPAF	4 Rorippa palustris fernaldiana	-5 OBL	Nt A-Forb	MARSH CRESS
SCIFLU	4 Scirpus fluviatilis	-5 OBL	Nt P-Sedge	RIVER BULRUSH
SPAPEC	4 Spartina pectinata	-4 FACW+	Nt P-Grass	PRAIRIE CORD GRASS
TRIPRA	0 TRIFOLIUM PRATENSE	5 UPL	Ad P-Forb	RED CLOVER
TYPLAT	1 Typha latifolia	-5 OBL	Nt P-Forb	BROAD-LEAVED CATTAIL

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 24-Apr-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NW-2 SC-2
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): Drainageway Local relief (concave, convex, none): convex
 Slope %: 1 Lat: 41.3765814 Long: -87.70035075 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silt loam and Ashkum silty clay loam NWI Classification: PEM; Stream

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil X or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampling Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soils Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			
Remarks: Tiled drainageway with part open channel. Surrounding soil is highly eroded. Soil and hydrology disturbed due to channel dredging excavation					

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u> 3 </u> (A) Total Number of Dominant Species Across All Strata: <u> 4 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 75% </u> (A/B)
1.	<u>Prunus serotina</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>5</u>					Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum (Plot size: <u> </u>)					
1.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					
Herb Stratum (Plot size: <u> </u>)					
1.	<u>Phalaris arundinacea</u>	<u>35</u>	<u>Y</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) <u> </u> *Indicators of hydric soil and wetland hydrology must be present.
2.	<u>Helianthus grosseserratus</u>	<u>25</u>	<u>Y</u>	<u>FACW</u>	
3.	<u>Andropogon gerardii</u>	<u>50</u>	<u>Y</u>	<u>FAC</u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
6.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
7.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
8.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
9.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
10.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>115</u>					
Woody Vine Stratum (Plot size: <u> </u>)					
1.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

Sampling Point: **W02NW-2 SC-2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-7	10 YR 4/3	100					silty clay loam	
7-10	10 YR 3/2	100					silty clay loam	
10-13	no recovery							No recovery due to high watertable

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☒ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes ☒ No ☐

Remarks:

Disturbed soil profile--sub-soil on top; buried topsoil under; no soil core under 10" due to high water

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☒ Surface Water (A1)
☒ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches): _____
 Water Table Present? Yes ☒ No ☐ Depth (inches): **7"**
 Saturation Present? Yes ☐ No ☐ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Excavated natural drainagway with field tile installed down the middle.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 4/24/2009Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NW-2U SC-1Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 4; T33N; R13ELandform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): concaveSlope %: 2 Lat: 41.3765814 Long: -87.70035075 Datum: NAD83 Illinois EastSoil Unit Name: Markham silt loam NWI Classification: UplandAre climatic / hydrologic conditions on the site typical for this time of year? Yes X No Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u> </u>	No <u>X</u>	Is the Sampling Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soils Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			
Remarks: Tiled drainageway					

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>--</u>					
2. <u>--</u>					
3. <u>--</u>					
4. <u>--</u>					
Total Cover: <u> </u>					Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>4</u> x 4 = <u>16</u> UPL species <u>3</u> x 5 = <u>15</u> Column Totals <u>9</u> (A) <u>36</u> (B) Prevalence Index = B/A = <u>4.0</u>
Sapling/Shrub Stratum (Plot size: <u> </u>)					
1. <u>--</u>					
2. <u>--</u>					
3. <u>--</u>					
Total Cover: <u> </u>					
Herb Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Indicators: <u>50</u> Dominance Test is >50% <u>4</u> Prevalence Index is >3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Andropogon gerardii</u>		<u>65</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Festuca elatior</u>		<u>25</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Trifolium repens</u>		<u>5</u>	<u>N</u>	<u>FACU</u>	
4. <u>Achillea millefolium</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
5. <u>Lonicera tatarica</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
6. <u>Potentilla simplex</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
7. <u>Daucus carota</u>		<u>1</u>	<u>N</u>	<u>UPL</u>	
8. <u>Aster pilosus</u>		<u>5</u>	<u>N</u>	<u>FACU</u>	
9. <u>Cyperus sp.</u>		<u>5</u>	<u>N</u>	<u>FACU</u>	
Total Cover: <u>109</u>					
Woody Vine Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u>--</u>					
2. <u>--</u>					
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.)					

SOILSampling Point: **W02NW-2U SC-1****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-13	10YR 5/3	80	7.5YR 3/2	5	C	PL	Sandy clay loam	
13-20	10YR6/2	80	10YR 5/6	15	CS	M	clay	Some gravel
			10YR 5/6	17	CS	M		Firm
			7.5YR 3/2	2	C	PL		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes _____ No **X** _____

Remarks:

Eroded farm field has lost topsoil layer**HYDROLOGY****Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply):

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** _____ Depth (inches): _____
Water Table Present? Yes _____ No **X** _____ Depth (inches): _____
Saturation Present? Yes _____ No **X** _____ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 24-Apr-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NW-2U SC-3
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): Concave
 Slope %: 3 Lat: 41.3765814 Long: -87.70035075 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silt loam NWI Classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil X or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Hydric Soils Present? Yes <u> </u> No <u>X</u>	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampling Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: Tiled drainageway with part open channel. Surrounding soil is highly eroded.			

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u> 0 </u> (A) Total Number of Dominant Species Across All Strata: <u> 3 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 0% </u> (A/B)
1. <u>Prunus serotina</u>	<u>5</u>		FACU	
2. <u>Fraxinus pennsylvanica</u>	<u>1</u>		FACW	
3. <u> </u>				
4. <u> </u>				
Total Cover: <u>6</u>				Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: OBL species <u> </u> x 1 = <u> 0 </u> FACW species <u> </u> x 2 = <u> 0 </u> FAC species <u> </u> x 3 = <u> 0 </u> FACU species <u> </u> x 4 = <u> 0 </u> UPL species <u> </u> x 5 = <u> 0 </u> Column Totals <u> 0 </u> (A) <u> 0 </u> (B) Prevalence Index = B/A = <u> #DIV/0! </u>
Sapling/Shrub Stratum (Plot size: <u> </u>)				
1. <u> </u>				
2. <u> </u>				
3. <u> </u>				
Total Cover: <u> </u>				
Herb Stratum (Plot size: <u> </u>)				
1. <u>Rubus allegheniensis</u>	<u>15</u>		FACU	Hydrophytic Vegetation Indicators: Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) <u> </u> *Indicators of hydric soil and wetland hydrology must be present.
2. <u>Bromus inermis</u>	<u>50</u>		UPL	
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
6. <u> </u>				
7. <u> </u>				
8. <u> </u>				
9. <u> </u>				
10. <u> </u>				
Total Cover: <u>65</u>				
Woody Vine Stratum (Plot size: <u> </u>)				
1. <u> </u>				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
2. <u> </u>				
Total Cover: <u> </u>				
Remarks: (Include photo numbers here or on a separate sheet.)				
Old field vegetation in eroded tree plantation (probably former pasture/crop land)				

SOIL

Sampling Point: **W02NW-2U SC-3**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-8	10YR 4/3	100	none				silty clay loam	moist, friable
8-12	10YR 3/2	100	none				silty clay loam	moist, friable
12-20	10YR 5/4	100	none				silty clay loam	moist, firm

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes _____ No **X** _____

Remarks:

Disturbed soil profile w/sub soil layer on top

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** _____ Depth (inches): _____
 Water Table Present? Yes _____ No **X** _____ Depth (inches): _____
 Saturation Present? Yes _____ No **X** _____ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Site: Inaugural South Suburban Airport
 Locale: W02NW5
 Date: April 23, 2008 1 hours
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NW5.inv

FLORISTIC QUALITY DATA	Native	6	66.7%	Adventive	3	33.3%
6 NATIVE SPECIES	Tree	1	11.1%	Tree	0	0.0%
9 Total Species	Shrub	2	22.2%	Shrub	0	0.0%
2.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.3 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
4.9 NATIVE FQI	P-Forb	3	33.3%	P-Forb	0	0.0%
4.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.5 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
0.6 W/Adventives	P-Grass	0	0.0%	P-Grass	3	33.3%
AVG: Faculative (-)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
DACGLO	0 DACTYLIS GLOMERATA	3 FACU	Ad P-Grass	ORCHARD GRASS
ERIPHI	4 Erigeron philadelphicus	-3 FACW	Nt P-Forb	MARSH FLEABANE
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
RHUTYP	1 Rhus typhina	5 UPL	Nt Tree	STAGHORN SUMAC
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 23-Apr-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NW-5 SC-1
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): Hillside seep Local relief (concave, convex, none): concave
 Slope %: 6 Lat: 41.38316197 Long: -87.70338874 Datum: NAD83 Illinois East
 Soil Unit Name: Ozaukee silty clay loam NWI Classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampling Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soils Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			
Remarks: Seepy, unplanted slope in the center of White Pine plantation					

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
3.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
4.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
5.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
Total Cover: <u> </u>				
Sapling/Shrub Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>Rubus allegheniensis</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>
2.	<u>Sambucus canadensis</u>	<u>5</u>	<u>N</u>	<u>FACW</u>
3.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
4.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
5.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
Total Cover: <u> </u>				
Herb Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>Agrostis alba</u>	<u>80</u>	<u>Y</u>	<u>FACW-</u>
2.	<u>Helianthus grosseserratus</u>	<u>25</u>	<u>Y</u>	<u>FACW-</u>
3.	<u>Dactylis glomerata</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
4.	<u>Festuca elatior</u>	<u>10</u>	<u>N</u>	<u>UPL</u>
5.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
6.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
7.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
8.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
9.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
10.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
Total Cover: <u> </u>				
Woody Vine Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
2.	<u>--</u>	<u> </u>	<u> </u>	<u> </u>
Total Cover: <u> </u>				

Dominance Test Worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet:

Total % Cover of	Multiply by:	
OBL species	x 1 =	<u>0</u>
FACW species	x 2 =	<u>0</u>
FAC species	x 3 =	<u>0</u>
FACU species	x 4 =	<u>0</u>
UPL species	x 5 =	<u>0</u>
Column Totals	<u>0</u> (A)	<u>0</u> (B)

 Prevalence Index = B/A = #DIV/0!

Hydrophytic Vegetation Indicators:
 Dominance Test is >50%
 Prevalence Index is ≥3.0*
 Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation (Explain)
 *Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: **W02NW-5 SC-1**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-9	10YR 2/1	98	10YR 4/2	2	D	M	silty clay loam	moist, friable; wet at 7"

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☒ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes ☒ No ☐

Remarks:

Water at 7"; no recovery below 9"

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☒ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____
 Water Table Present? Yes ☒ No ☐ Depth (inches): 9"
 Saturation Present? Yes ☒ No ☐ Depth (inches): 7"
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 23-Apr-09

Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NW-5U SC-2

Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E

Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): concave

Slope %: 6 Lat: 41.38316197 Long: -87.70338874 Datum: NAD83 Illinois East

Soil Unit Name: Ozaukee silt loam/Markham silt loam NWI Classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No

Are Vegetation Soil or hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u>	No <u>X</u>	Is the Sampling Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soils Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			
Remarks: Unplanted in the middle of planted White Pine stand					

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u> 0 </u> (A)
1. <u>Pinus strobus</u>		<u>60</u>	<u>Y</u>	<u>FACU</u>	
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
Total Cover: <u> </u>					Total Number of Dominant Species Across All Strata: <u> 4 </u> (B)
Sapling/Shrub Stratum (Plot size: <u> </u>)					Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 0% </u> (A/B)
1. <u> </u>					Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u>
2. <u> </u>					
3. <u> </u>					OBL species <u> </u> x 1 = <u> 0 </u>
4. <u> </u>					FACW species <u> </u> x 2 = <u> 0 </u>
5. <u> </u>					FAC species <u> </u> x 3 = <u> 0 </u>
Total Cover: <u> </u>					FACU species <u> </u> x 4 = <u> 0 </u>
Herb Stratum (Plot size: <u> </u>)					UPL species <u> </u> x 5 = <u> 0 </u>
1. <u>Solidago altissima</u>		<u>25</u>	<u>Y</u>	<u>FACU</u>	Column Totals <u> 0 </u> (A) <u> 0 </u> (B)
2. <u>Festuca elatior</u>		<u>50</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Dactylis glomerata</u>		<u>25</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Agrostis alba</u>		<u>10</u>	<u>N</u>	<u>FACW</u>	
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
Total Cover: <u>110</u>					Prevalence Index = B/A = <u>#DIV/0!</u>
Woody Vine Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1. <u> </u>					Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
2. <u> </u>					
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.)					
Old field vegetation in eroded tree plantation (probably former pasture/crop land)					

SOILSampling Point: **W02NW-5U SC-2****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-9	10YR 3/1	98	10YR 5/4	2	RM	M	silty clay loam	Moist, friable
9-16	10YR5/2	82	10YR3/1	5	RM	M	silty clay loam	Moist, friable
16-18	No recovery		10YR 5/6	12	RM	M		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes _____ No **X** _____

Remarks:

Last four inches of soil core not could not be recovered due to high water table

HYDROLOGY**Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply):

☐ Surface Water (A1)
☒ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____
Water Table Present? Yes **X** _____ No _____ Depth (inches): 11"
Saturation Present? Yes _____ No _____ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes **X** _____ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

High water table

Site: Inaugural South Suburban Airport
 Locale: W02NW6
 Date: April 23, 2009 30 minutes
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NW6.inv

FLORISTIC QUALITY DATA	Native	0	0.0%	Adventive	3	100.0%
0 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
3 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	2	66.7%
1.3 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	1	33.3%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
MOLVER	0 MOLLUGO VERTICILLATA	0 FAC	Ad A-Forb	CARPET WEED
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 23-Apr-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NW-6 SC-1
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): drainageway/terrace Local relief (concave, convex, none): concave
 Slope %: 0 Lat: 41.381791 Long: -87.70283858 Datum: NAD83 Illinois East
 Soil Unit Name: Drummer silty clay loam NWI Classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Hydric Soils Present? Yes <u>X</u> No <u> </u>	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampling Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: Cultivated field next to Black Walnut Creek. Probably tiled			

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
1.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Total Cover: <u> </u>					
Sapling/Shrub Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is >3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
Herb Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u>Abutilon theophrasti</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
2.	<u>Setaria glauca</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	
3.	<u>Mollugo verticillata</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
6.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
7.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
8.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
9.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
10.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>50</u>					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
Woody Vine Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.) Large sparsely vegetated low area next to BWC. Evidence of complete crop failure in 2008.					

SOIL

Sampling Point: **W02NW-6 SC-1**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-14	10YR 2/1	100					silty clay loam	Moist, friable
14-21	2.5/N	100					silty clay	Moist, firm

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☒ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☒ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes ☒ No ☐

Remarks:

Soil characteristics match the hydric Drummer profile. Dark matrix hide redox colors

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☒ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☒ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☒ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☒ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches): _____
 Water Table Present? Yes ☒ No ☐ Depth (inches): 11"
 Saturation Present? Yes ☐ No ☐ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Large bare area in soybean field. Appears to have been inundated by overbank flooding from adjacent BWC.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 23-Apr-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NW-6U SC-2
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): drainageway terrace Local relief (concave, convex, none): concave
 Slope %: 1 Lat: 41.381791 Long: -87.70283858 Datum: NAD83 Illinois East
 Soil Unit Name: Drummer silty clay loam/Jasper loam NWI Classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes No X
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Hydric Soils Present? Yes <u>X</u> No <u> </u>	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampling Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: Unvegetated crop field w/corn stubble			

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u> </u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>#DIV/0!</u> (A/B)
1.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Total Cover: <u> </u>					
Sapling/Shrub Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					Hydrophytic Vegetation Indicators: Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) <u> </u> *Indicators of hydric soil and wetland hydrology must be present.
Herb Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
6.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
7.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
8.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
9.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
10.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
Woody Vine Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.)					
Plot in corn stubble of 2008 crop. Corn crop in this plot was a solid stand with no sign of washout or failure					

SOIL

Sampling Point: **W02NW-6U SC-2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-14	10YR 2/1	100					Silty clay loam	Moist, friable
14-21	5Y 3.5/1	98	10YR 5/6	21	C	M	silty clay	Moist, firm

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☒ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☒ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes ☒ No ☐

Remarks:

Soil characteristics match the hydric Drummer profile. Dark matrix hide redox colors

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches): _____
 Water Table Present? Yes ☐ No ☐ Depth (inches): _____
 Saturation Present? Yes ☐ No ☐ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Site: Inaugural South Suburban Airport
 Locale: W02NW7
 Date: May 1, 2009 30 minutes
 By: AECOM;T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NW7.inv

FLORISTIC QUALITY DATA	Native	29	72.5%	Adventive	11	27.5%
29 NATIVE SPECIES	Tree	1	2.5%	Tree	0	0.0%
40 Total Species	Shrub	1	2.5%	Shrub	2	5.0%
3.7 NATIVE MEAN C	W-Vine	1	2.5%	W-Vine	0	0.0%
2.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
20.1 NATIVE FQI	P-Forb	18	45.0%	P-Forb	2	5.0%
17.1 W/Adventives	B-Forb	1	2.5%	B-Forb	4	10.0%
-1.7 NATIVE MEAN W	A-Forb	3	7.5%	A-Forb	0	0.0%
-0.5 W/Adventives	P-Grass	2	5.0%	P-Grass	3	7.5%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	1	2.5%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	1	2.5%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ALLCER	7 Allium cernuum	1 [FAC-]	Nt P-Forb	NODDING WILD ONION
ARCMIN	0 ARCTIUM MINUS	5 UPL	Ad B-Forb	COMMON BURDOCK
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BARVUL	0 BARBAREA VULGARIS	0 FAC	Ad B-Forb	YELLOW ROCKET
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
CXSTRI	5 Carex stricta	-5 OBL	Nt P-Sedge	COMMON TUSsock SEDGE
CICMAC	6 Cicutu maculata	-5 OBL	Nt P-Forb	WATER HEMLOCK
CIRMUT	10 Cirsium muticum	-5 OBL	Nt B-Forb	SWAMP THISTLE
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
EPICOL	3 Epilobium coloratum	-5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
EQUARV	0 Equisetum arvense	0 FAC	Cryptogam	HORSETAIL
ERYALB	5 Erythronium albidum	5 UPL	Nt P-Forb	WHITE TROUT LILY
GERMAC	4 Geranium maculatum	5 [UPL]	Nt P-Forb	WILD GERANIUM
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
GEULAT	2 Geum laciniatum trichocarpum	-3 FACW	Nt P-Forb	ROUGH AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi	0 [FAC]	Nt P-Forb	DUDLEY'S RUSH
LONTAT	0 LONICERA TATARICA	5 [UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
LYCAME	5 Lycopos americanus	-5 OBL	Nt P-Forb	COMMON WATER HOREHOUND
MIMRIN	6 Mimulus ringens	-5 OBL	Nt P-Forb	MONKEY FLOWER
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS

PHRAUS	1	<i>Phragmites australis</i>	-4	FACW+	Nt	P-Grass	COMMON REED
POAPRA	0	<i>POA PRATENSIS</i>	1	FAC-	Ad	P-Grass	KENTUCKY BLUE GRASS
POLGVI	2	<i>Polygonum virginianum</i>	0	FAC	Nt	P-Forb	WOODLAND KNOTWEED
POTSIS	4	<i>Potentilla simplex</i>	4	FACU-	Nt	P-Forb	COMMON CINQUEFOIL
PYCVIR	5	<i>Pycnanthemum virginianum</i>	-4	FACW+	Nt	P-Forb	COMMON MOUNTAIN MINT
RHURAD	2	<i>Rhus radicans</i>	-1	FAC+	Nt	W-Vine	POISON IVY
RORPAF	4	<i>Rorippa palustris fernaldiana</i>	-5	OBL	Nt	A-Forb	MARSH CRESS
ROSMUL	0	<i>ROSA MULTIFLORA</i>	3	FACU	Ad	Shrub	MULTIFLORA ROSE
RUBALL	3	<i>Rubus allegheniensis</i>	2	FACU+	Nt	Shrub	COMMON BLACKBERRY
RUMCRI	0	<i>RUMEX CRISPUS</i>	-1	FAC+	Ad	P-Forb	CURLY DOCK
SIUSUA	7	<i>Sium suave</i>	-5	OBL	Nt	P-Forb	TALL WATER PARSNIP
SOLNEM	4	<i>Solidago nemoralis</i>	5	UPL	Nt	P-Forb	OLD-FIELD GOLDENROD
TAROFF	0	<i>TARAXACUM OFFICINALE</i>	3	FACU	Ad	P-Forb	COMMON DANDELION
VIOSOR	3	<i>Viola sororia</i>	1	FAC-	Nt	P-Forb	COMMON BLUE VIOLET

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 1-May-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NW-7 S2
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): concave
 Slope %: 2 Lat: 41.37752692 Long: -87.69935981 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silty clay loam (Ashkum silty clay loam inclusion) NWI Classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Hydric Soils Present? Yes <u>X</u> No <u> </u>	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampling Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: Long, low drainageway at west end of farm field and at base of slope			

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum (Plot size: <u> </u>)				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				
Herb Stratum (Plot size: <u> </u>)				Hydrophytic Vegetation Indicators: Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) <u> </u> *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Carex stricta</u>	<u>80</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Helianthus grosseserratus</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
3. <u>Aster simplex</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
4. <u>Phalaris arundinacea</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
5. <u>Pastinaca sativa</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>106</u>				
Woody Vine Stratum (Plot size: <u> </u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: **W02NW-7 S2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-20	10YR 2/1						Silty clay loam	Moist, friable

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☒ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☒ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes ☒ No ☐

Remarks:

Sedge meadow in depression. Dark matrix color hides redox features.
Soil characteristics match the hydric Ashkum soil which is a Markham inclusion.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☒ Surface Water (A1)
- ☒ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): surface
Water Table Present? Yes ☒ No ☐ Depth (inches): 2"
Saturation Present? Yes ☒ No ☐ Depth (inches): surface
(includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Within five feet of soil pit, water at surface.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 1-May-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NW-7U S1
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave
 Slope %: 1 Lat: 41.37752692 Long: -87.69935981 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silty clay loam NWI Classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Is the Sampling Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soils Present? Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: Long, low swale at the base of a slope. Upland point in adjacent old field	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum (Plot size: <u> </u>)				
1. <u>Rubus allegheniensis</u>	<u>35</u>	<u>Y</u>	<u>FACU</u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>35</u>				
Herb Stratum (Plot size: <u> </u>)				Hydrophytic Vegetation Indicators: Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) <u> </u> *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Daucus carota</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
2. <u>Bromus inermis</u>	<u>80</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Festuca elatior</u>	<u>1</u>	<u>N</u>	<u>UPL</u>	
4. <u>Pastinaca sativa</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
5. <u>Aster pilosus</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
6. <u>Poa pratensis</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>128</u>				
Woody Vine Stratum (Plot size: <u> </u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOILSampling Point: **W02NW7U S1****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-9	2.5Y 4/2	100						
9-14	2.5Y 4/2	99	5YR 4/6	1	C	PL		
14-21	2.5Y 3/1	60	2.5Y 4/2	40	D	M		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes _____ No **X** _____

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply):

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** _____ Depth (inches): _____
Water Table Present? Yes _____ No **X** _____ Depth (inches): _____
Saturation Present? Yes _____ No **X** _____ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz	Date: 10/08/08 County: Will State: Illinois Community ID: Upland Station ID: W02NW-8 Plot ID: NA
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Tiled, grassed waterway.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Bromus inermis</i>	UPL	HERB	--		7. --	--	--	--
2. <i>Setaria faberi</i>	FACU+	HERB	--		8. --	--	--	--
3. <i>Festuca elatior</i>	UPL	HERB	--		9. --	--	--	--
4. <i>Rumex crispus</i>	FAC+	HERB	--		10. --	--	--	--
5. <i>Ambrosia trifida</i>	FAC+	HERB	--		11. --	--	--	--
6. --	--	--	--		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **0%**

Remarks: **Hydrophytic vegetation is not dominant.**

Cover percentages not collected; dominant vegetation cover consists of upland grasses

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is not present.**

NRCS slide review site

SOILS

Map Unit Name: **Drummer silty clay loam, 0 to 2 percent slopes** Series Drainage Class: **poorly drained**
 Taxonomy (Subgroup): **Typic Endoaquolls** Field Observations Confirm Mapped Type? **No soil core collected*** Yes ☐ No ☐

Profile Description:		Matrix Color		Mottle Colors		Mottle		Texture, moisture, consistency, organic material, and other soil characteristics.
Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	
Depth	Depth	Horizon	(Munsell Moist):	(Munsell Moist):	Abundance/Contrast			

Hydric Soil Indicators²:

- | | |
|---|---|
| _____ (A1) Histosol
_____ (A2) Histic Epipedon
_____ (A3) Black Histic
_____ (A4) Hydrogen Sulfide
_____ (A5) Stratified Layers
_____ (A10) 2 cm Muck
_____ (A11) Depleted Below Dark Surface
_____ (A12) Thick Dark Surface
_____ (S1) Sandy Mucky Mineral
_____ (S3) 5 cm Mucky Peat or Peat | _____ (S4) Sandy Gleyed Matrix
_____ (S5) Sandy Redox
_____ (S6) Stripped Matrix
_____ (F1) Loamy Mucky Mineral
_____ (F2) Loamy Gleyed Matrix
_____ (F3) Depleted Matrix
_____ (F6) Redox Dark Surface
_____ (F7) Depleted Dark Surface
_____ (F8) Redox Depressions |
|---|---|

Indicators for Problematic Hydric Soils¹:

- _____ (A16) Coast Prairie Redox
 _____ (F12) Iron-Manganese Masses
 _____ Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are mapped.**

*Wetland vegetation and wetland hydrology is not present, so no soil core taken.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? No soil core taken* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Remarks: **This plot is not located in a wetland.**

*Wetland vegetation and wetland hydrology is not present, so no soil core taken.

Site: Inaugural South Suburban Airport
 Locale: W02NW9
 Date: April 24, 2009 30 minutes
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W02NW9.inv
 Notes: FQI originally W02NW4

FLORISTIC QUALITY DATA	Native	11	52.4%	Adventive	10	47.6%
11 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
21 Total Species	Shrub	3	14.3%	Shrub	0	0.0%
1.9 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.3 NATIVE FQI	P-Forb	4	19.0%	P-Forb	3	14.3%
4.6 W/Adventives	B-Forb	0	0.0%	B-Forb	4	19.0%
-0.5 NATIVE MEAN W	A-Forb	3	14.3%	A-Forb	0	0.0%
0.6 W/Adventives	P-Grass	1	4.8%	P-Grass	3	14.3%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ALLPET	0 ALLIARIA PETIOLATA	0 FAC	Ad B-Forb	GARLIC MUSTARD
ALLCER	7 Allium cernuum	1 [FAC-]	Nt P-Forb	NODDING WILD ONION
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ARCMIN	0 ARCTIUM MINUS	5 UPL	Ad B-Forb	COMMON BURDOCK
BARVUL	0 BARBAREA VULGARIS	0 FAC	Ad B-Forb	YELLOW ROCKET
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
DACGLO	0 DACTYLIS GLOMERATA	3 FACU	Ad P-Grass	ORCHARD GRASS
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
GALAPA	1 Galium aparine	3 FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
RANABO	0 Ranunculus abortivus	-2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
TRIREP	0 TRIFOLIUM REPENS	2 FACU+	Ad P-Forb	WHITE CLOVER

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 24-Apr-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NW-9 SC-1
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): concave
 Slope %: 1 Lat: 41.37752692 Long: -87.69935981 Datum: NAD83 Illinois East
 Soil Unit Name: Drummer silty clay loam NWI Classification: PEM/PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Hydric Soils Present? Yes <u>X</u> No <u> </u>	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampling Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: Tiled drainageway outlet to Black Walnut Creek excavated recently. Spoil bank and fresh spoil present			

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u> 3 </u> (A) Total Number of Dominant Species Across All Strata: <u> 3 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 100% </u> (A/B)
1. <u> </u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
Total Cover: <u> </u>					Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: OBL species <u> </u> x 1 = <u> 0 </u> FACW species <u> </u> x 2 = <u> 0 </u> FAC species <u> </u> x 3 = <u> 0 </u> FACU species <u> </u> x 4 = <u> 0 </u> UPL species <u> </u> x 5 = <u> 0 </u> Column Totals <u> 0 </u> (A) <u> 0 </u> (B) Prevalence Index = B/A = <u> #DIV/0! </u>
Total Cover: <u> </u>					
Total Cover: <u> </u>					
Total Cover: <u> </u>					
Total Cover: <u> </u>					
Hydrophytic Vegetation Indicators: Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) <u> </u> *Indicators of hydric soil and wetland hydrology must be present.					
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>					

Sapling/Shrub Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Salix exigua</u>		<u>80</u>	<u>Y</u>	<u>OBL</u>
2. <u>Sambucus canadensis</u>		<u>20</u>	<u>N</u>	<u>FACW</u>
3. <u>Rubus allegheniensis</u>		<u>10</u>	<u>N</u>	<u>FACU</u>
4. <u> </u>				
5. <u> </u>				
Total Cover: <u>110</u>				

Herb Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Elymus virginicus</u>		<u>60</u>	<u>Y</u>	<u>FACW</u>
2. <u>Ambrosia trifida</u>		<u>25</u>	<u>Y</u>	<u>FAC</u>
3. <u>Dactylis glomerata</u>		<u>10</u>	<u>N</u>	<u>FACU</u>
4. <u>Trifolium repens</u>		<u>20</u>	<u>N</u>	<u>FACU</u>
5. <u> </u>				
6. <u> </u>				
7. <u> </u>				
8. <u> </u>				
9. <u> </u>				
10. <u> </u>				
Total Cover: <u>115</u>				

Woody Vine Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u> </u>				
2. <u> </u>				
Total Cover: <u> </u>				

Remarks: (Include photo numbers here or on a separate sheet.)
Willow thicket mixed with old field vegetation

SOIL

Sampling Point: **W02NW-9 SC-1**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-13	10YR 2/1	98	10YR 7/6	2	C	PL	silty clay loam	moist, friable
13-20	10YR 2/1	98	10YR 7/6	1	C	PL	silty clay	moist, friable
			7.5YR 4/6	1	C	PL		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☒ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☒ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☒ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____
 Water Table Present? Yes ☐ No ☒ Depth (inches): _____
 Saturation Present? Yes ☐ No ☒ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Precipitation w/i last 24 hours. Veg matted in direction of waterflow

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 24-Apr-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02NW-9U SC-2
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): terrace Local relief (concave, convex, none): concave
 Slope %: 4 Lat: 41.37752692 Long: -87.69935981 Datum: NAD83 Illinois East
 Soil Unit Name: Drummer silty clay loam NWI Classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u>	No <u>X</u>	Is the Sampling Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soils Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>	
Remarks: Sample point is on spoil bank north of BWC channel at corner of stream meander. Excavation for drain tile located ~35 ft south.			

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
1.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum (Plot size: <u> </u>)					
1.	<u>Lonicera tatarica</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
2.	<u>Acer negundo</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
3.	<u>Salix exigua</u>	<u>10</u>	<u>Y</u>	<u>OBL</u>	
Total Cover: <u>35</u>					
Herb Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is >3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1.	<u>Bromus inermis</u>	<u>90</u>	<u>Y</u>	<u>UPL</u>	
2.	<u>Pastinaca sativa</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
3.	<u>Arctium minus</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
Total Cover: <u>100</u>					
Woody Vine Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.)					
Dominated by Bromus inermis. Salix along BWC bank and drainage channel					

SOIL

Sampling Point: **W02NW-9U SC-2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-21	10YR 2/1		10YR 7/6	2	C	CS	silty clay Loam	interspersed with minor amts of sand and gravel.
			10YR 4/3		RM	M		
			10YR 4/6		C	CS		
			10YR 7/4		C	CS		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☒ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes X No

Remarks:

Area built up w/spoil from creek excavation, possible fill. All 21" a motley mix of material

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No X Depth (inches):
 Water Table Present? Yes No X Depth (inches):
 Saturation Present? Yes No X Depth (inches):
 (includes capillary fringe)

Wetland Hydrology Present? Yes No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Site: Inaugural South Suburban Airport
 Locale: W02SE4
 Date: October 6, 2008 30 minutes
 By: AECOM: A. Amelse; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SE4.inv

FLORISTIC QUALITY DATA	Native	6	46.2%	Adventive	7	53.8%
6 NATIVE SPECIES	Tree	1	7.7%	Tree	0	0.0%
13 Total Species	Shrub	1	7.7%	Shrub	1	7.7%
1.7 NATIVE MEAN C	W-Vine	2	15.4%	W-Vine	1	7.7%
0.8 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
4.1 NATIVE FQI	P-Forb	2	15.4%	P-Forb	1	7.7%
2.8 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.7 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-1.0 W/Adventives	P-Grass	0	0.0%	P-Grass	3	23.1%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	1	7.7%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POACOM	0 POA COMPRESSA	2 FACU+	Ad P-Grass	CANADA BLUE GRASS
POLCUS	0 POLYGONUM CUSPIDATUM	3 FACU	Ad Shrub	JAPANESE KNOTWEED
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLDUL	0 SOLANUM DULCAMARA	0 FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport						Date: 10/06/08																																																																		
Applicant/Owner: Illinois Department of Transportation						County: Will																																																																		
Investigator #1: Ann Amelse #2: Robyn West						State: Illinois																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: PEM																																																																		
Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Station ID: W02SE-4																																																																		
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: S1																																																																		
Remarks:																																																																								
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Dominant Species (50/20 Rule)																																																																								
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Remarks: Hydrophytic vegetation is dominant.																																																																								
HYDROLOGY																																																																								
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available					Wetland Hydrology Indicators: <input type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input checked="" type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input checked="" type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)																																																																			
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)																																																																								
Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review.																																																																								
SOILS																																																																								
Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained																																																																								
Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																								
Profile Description:																																																																								
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Depth	Depth	Horizon	(Munsell Moist):	(Munsell Moist):	Abundance/Contrast	and other soil characteristics.																																																																		
0	2	C	10YR 4/2	NA NA	NA NA	this layer consists of sediment deposits, has oxidized rhizospheres silt loam, moist, friable																																																																		
2	7	Ab	10YR 2.5/1	NA NA	NA NA	silty clay loam, moist, firm																																																																		
7	13	Bt1	10YR 4/1	7.5YR 4/4	common distinct	silty clay, moist, very firm																																																																		
13	17	Bt2	10YR 3/1	10YR 4/4	common distinct	silty clay, moist, very firm																																																																		
17	20	Bt3	2.5Y 4/1	10YR 4/6	many prominent	clay, moist, very firm																																																																		
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Remarks: Hydric soils are present. Sediment deposition above native Ashkum.																																																																								
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Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																			
Remarks: This plot is located in a wetland.																																																																								

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																									
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Remarks: This plot is not located in a wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and hydrophytic vegetation is not dominant.																																																									

Site: SSA Inaugural Delineation
 Locale: W02SE5
 Date: October 6, 2008 1 hours
 By: AECOM: A. Amelse; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SE5.inv

FLORISTIC QUALITY DATA	Native	26	86.7%	Adventive	4	13.3%
26 NATIVE SPECIES	Tree	5	16.7%	Tree	0	0.0%
30 Total Species	Shrub	3	10.0%	Shrub	0	0.0%
2.5 NATIVE MEAN C	W-Vine	1	3.3%	W-Vine	0	0.0%
2.1 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
12.6 NATIVE FQI	P-Forb	11	36.7%	P-Forb	2	6.7%
11.7 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.5 NATIVE MEAN W	A-Forb	2	6.7%	A-Forb	0	0.0%
-2.3 W/Adventives	P-Grass	1	3.3%	P-Grass	2	6.7%
AVG: Fac. Wetland (-)	A-Grass	1	3.3%	A-Grass	0	0.0%
	P-Sedge	2	6.7%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ASTLAT	4 Aster lateriflorus	-2 FACW-	Nt P-Forb	SIDE-FLOWERING ASTER
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CXVULP	2 Carex vulpinoidea	-5 OBL	Nt P-Sedge	BROWN FOX SEDGE
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
CYPSTR	1 Cyperus strigosus	-3 FACW	Nt P-Sedge	LONG-SCALED NUT SEDGE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
EPICOL	3 Epilobium coloratum	-5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
IRIVIS	5 Iris virginica shrevei	-5 OBL	Nt P-Forb	BLUE FLAG
JUNDUD	4 Juncus dudleyi	0 [FAC]	Nt P-Forb	DUDLEY'S RUSH
JUNEFF	7 Juncus effusus	-5 OBL	Nt P-Forb	COMMON RUSH
JUNTOR	4 Juncus torreyi	-3 FACW	Nt P-Forb	TORREY'S RUSH
PANVIR	5 Panicum virgatum	-1 FAC+	Nt P-Grass	SWITCH GRASS
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PLAMAJ	0 PLANTAGO MAJOR	-1 FAC+	Ad P-Forb	COMMON PLANTAIN
POACOM	0 POA COMPRESSA	2 FACU+	Ad P-Grass	CANADA BLUE GRASS
POLAMS	4 Polygonum amphibium stipulaceum	-5 OBL	Nt P-Forb	WATER KNOTWEED
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	0 Prunella vulgaris lanceolata	3 [FACU]	Nt P-Forb	SELF HEAL
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY

RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD

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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Robyn West						Date: 10/06/08 County: Will State: Illinois Community ID: Upland Station ID: W02SE-5 Plot ID: S2																																																																								
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Site: Inaugural South Suburban Airport
 Locale: W02SE7
 Date: May 4, 2009 15 minutes
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SE7.inv

FLORISTIC QUALITY DATA		Native	1	25.0%	Adventive	3	75.0%
1	NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
4	Total Species	Shrub	1	25.0%	Shrub	0	0.0%
6.0	NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.5	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.0	NATIVE FQI	P-Forb	0	0.0%	P-Forb	1	25.0%
3.0	W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-3.0	NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
0.3	W/Adventives	P-Grass	0	0.0%	P-Grass	2	50.0%
AVG: Fac. Wetland		A-Grass	0	0.0%	A-Grass	0	0.0%
		P-Sedge	0	0.0%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			
ACRONYM	C SCIENTIFIC NAME	W WETNESS PHYSIOGNOMY COMMON NAME					
BROINE	0 BROMUS INERMIS	5	UPL	Ad	P-Grass	HUNGARIAN BROME	
CORSTO	6 Cornus stolonifera	-3	FACW	Nt	Shrub	RED-OSIER DOGWOOD	
PHAARU	0 PHALARIS ARUNDINACEA	-4	FACW+	Ad	P-Grass	REED CANARY GRASS	
TAROFF	0 TARAXACUM OFFICINALE	3	FACU	Ad	P-Forb	COMMON DANDELION	

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/4/2009

Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SE7 SC-1

Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E

Landform (hillside, terrace, etc.): depression on terrace Local relief (concave, convex, none): concave

Slope %: 1 Lat: 41.37206046 Long: -87.69574245 Datum: NAD83 Illinois East

Soil Unit Name: Ashkum silty clay loam NWI Classification: Not mapped; PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No

Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampling Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soils Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			
Remarks: Drainage tile present in drainageway. Area is a depression on terrace; field tile present.					

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>--</u>					
2. <u>--</u>					
3. <u>--</u>					
4. <u>--</u>					
Total Cover: <u> </u>					Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum (Plot size: <u> </u>)					
1. <u>--</u>					
2. <u>--</u>					
3. <u>--</u>					
Total Cover: <u> </u>					
Herb Stratum (Plot size: <u> </u>)					
1. <u>Phalaris arundinacea</u>		<u>100</u>	<u>Y</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is >3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
2. <u>--</u>					
3. <u>--</u>					
4. <u>--</u>					
5. <u>--</u>					
Total Cover: <u>100</u>					
Woody Vine Stratum (Plot size: <u> </u>)					
1. <u>--</u>					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
2. <u>--</u>					
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.) Common reed dominated area in meadow dominated by <i>Bromus inermis</i>					

SOIL

Sampling Point: **W02SE7 SC-1**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-12	10YR 2/1	100					Silty clay loam	Moist; friable
12-14	2.5N	100					Silty clay loam	Mucky; moist, friable
14-20	10YR 2/1	100					Silty clay loam	Mucky; moist, friable

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☒ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes X No

Remarks:

Buried mucky layers. Suspect tile in drainageway--possible excavation spoil on top of original surface layer

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
☒ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No X Depth (inches): _____
 Water Table Present? Yes No X Depth (inches): _____
 Saturation Present? Yes No X Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Tiled drainageway

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/4/2009
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SE7U SC-2
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): terrace Local relief (concave, convex, none): concave
 Slope %: _____ Lat: 41.37206046 Long: -87.69574245 Datum: NAD83 Illinois East
 Soil Unit Name: _____ NWI Classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology _____ Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampling Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soils Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: Tiled drainageway	

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. --				
2. --				
3. --				
4. --				
5. --				
Total Cover: _____				
Sapling/Shrub Stratum	(Plot size: _____)			
1. --				
2. --				
3. --				
4. --				
5. --				
Total Cover: _____				
Herb Stratum	(Plot size: _____)			
1. <i>Bromus inermis</i>		50	Y	UPL
2. <i>Poa pratensis</i>		50	Y	FAC
3. <i>Cornus racemosa</i>		1		FACW
4. <i>Cirsium arvense</i>		1		FACU
5. <i>Daucus carota</i>		1		UPL
6. <i>Taraxacum officinale</i>		1		FACU
7. --				
8. --				
9. --				
10. --				
Total Cover: 104				
Woody Vine Stratum	(Plot size: _____)			
1. --				
2. --				
Total Cover: _____				

Dominance Test Worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 2 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index Worksheet:

Total % Cover of	Multiply by:	
OBL species <u>0</u>	x 1 =	<u>0</u>
FACW species <u>1</u>	x 2 =	<u>2</u>
FAC species <u>1</u>	x 3 =	<u>3</u>
FACU species <u>2</u>	x 4 =	<u>8</u>
UPL species <u>2</u>	x 5 =	<u>10</u>
Column Totals <u>6</u> (A)		<u>23</u> (B)

 Prevalence Index = B/A = 3.8

Hydrophytic Vegetation Indicators:
N Dominance Test is >50%
N Prevalence Index is >3.0*
 _____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation (Explain)
 *Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: **W02SE7U SC-2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-12	10YR 3/1	100					Silty loam	Moist; friable
12-15	10YR 3/1	97	10YR 5/6	3	C	M	Silty loam	Moist
15-20	10YR 5/1	83	10YR 5/6	15	C	M	Silty clay loam	Moist
			10YR 4/1	2	C	M		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☒ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

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☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes ☒ No ☐

Remarks:

Hydric soils likely a relict of pre-tile conditions

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
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- ☐ Water-Stained Leaves (B9)
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☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____
 Water Table Present? Yes ☐ No ☒ Depth (inches): _____
 Saturation Present? Yes ☐ No ☒ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Site: Inaugural South Suburban Airport
 Locale: W02SE8
 Date: October 6, 2008 30 minutes
 By: AECOM: A. Amelse; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SE8.inv

FLORISTIC QUALITY DATA	Native	15	83.3%	Adventive	3	16.7%
15 NATIVE SPECIES	Tree	2	11.1%	Tree	0	0.0%
18 Total Species	Shrub	1	5.6%	Shrub	0	0.0%
2.4 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
9.3 NATIVE FQI	P-Forb	4	22.2%	P-Forb	1	5.6%
8.5 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.7 NATIVE MEAN W	A-Forb	4	22.2%	A-Forb	1	5.6%
-2.3 W/Adventives	P-Grass	1	5.6%	P-Grass	0	0.0%
AVG: Fac. Wetland	A-Grass	1	5.6%	A-Grass	1	5.6%
	P-Sedge	1	5.6%	P-Sedge	0	0.0%
	A-Sedge	1	5.6%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CYPSTR	1 Cyperus strigosus	-3 FACW	Nt P-Sedge	LONG-SCALED NUT SEDGE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
ELEOBT	3 Eleocharis obtusa	-5 OBL	Nt A-Sedge	BLUNT SPIKE RUSH
PANVIR	5 Panicum virgatum	-1 FAC+	Nt P-Grass	SWITCH GRASS
PENSED	5 Penthorum sedoides	-5 OBL	Nt P-Forb	DITCH STONECROP
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	0 Prunella vulgaris lanceolata	3 [FACU]	Nt P-Forb	SELF HEAL
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport						Date: 10/06/08																																																																		
Applicant/Owner: Illinois Department of Transportation						County: Will																																																																		
Investigator #1: Ann Amelse #2: Robyn West						State: Illinois																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: PSS																																																																		
Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Station ID: W02SE-8																																																																		
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: S1																																																																		
Remarks: --																																																																								
VEGETATION																																																																								
Dominant Species (50/20 Rule)																																																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 10%;"></th> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr> <td>1. <i>Panicum virgatum</i></td> <td>FAC+</td> <td>HERB</td> <td>25</td> <td></td> <td>7. <i>Carex sp.</i></td> <td>unknown</td> <td>HERB</td> <td>5</td> </tr> <tr> <td>2. <i>Salix nigra</i></td> <td>OBL</td> <td>TREE</td> <td>10</td> <td></td> <td>8. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>3. <i>Echinochloa crusgalli</i></td> <td>FACW</td> <td>HERB</td> <td>10</td> <td></td> <td>9. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>4. <i>Polygonum hydropiper</i></td> <td>OBL</td> <td>HERB</td> <td>15</td> <td></td> <td>10. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>5. <i>Eleocharis obtusa</i></td> <td>OBL</td> <td>HERB</td> <td>30</td> <td></td> <td>11. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>6. <i>Polygonum persicaria</i></td> <td>FACW</td> <td>HERB</td> <td>5</td> <td></td> <td>12. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover	1. <i>Panicum virgatum</i>	FAC+	HERB	25		7. <i>Carex sp.</i>	unknown	HERB	5	2. <i>Salix nigra</i>	OBL	TREE	10		8. --	--	--	--	3. <i>Echinochloa crusgalli</i>	FACW	HERB	10		9. --	--	--	--	4. <i>Polygonum hydropiper</i>	OBL	HERB	15		10. --	--	--	--	5. <i>Eleocharis obtusa</i>	OBL	HERB	30		11. --	--	--	--	6. <i>Polygonum persicaria</i>	FACW	HERB	5		12. --	--	--	--
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<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos <input type="checkbox"/> Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available					Wetland Hydrology Indicators: <input type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)																																																																			
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: 0 (in.)																																																																								
Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review.																																																																								
SOILS																																																																								
Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroder Series Drainage Class: Moderately well drained																																																																								
Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																								
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Top	Bottom		Matrix Color		Mottle Colors		Mottle		Texture, moisture, consistency, organic material,																																																															
Depth	Depth	Horizon	(Munsell Moist):		(Munsell Moist):		Abundance/Contrast		and other soil characteristics.																																																															
0	6	A	10YR	4/1.5	5YR	4/4	common	prominent	silty clay loam, saturated, friable																																																															
6	20	BT	2.5Y	5/1.5	10YR	5/8	many	prominent	clay, moist, very firm																																																															
Hydric Soil Indicators ² :																																																																								
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WETLAND DETERMINATION																																																																								
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Applicant/Owner: Illinois Department of Transportation						County: Will																																																																		
Investigator #1: Ann Amelse #2: Robyn West						State: Illinois																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: Upland																																																																		
Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Station ID: W02SE-8																																																																		
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: S2																																																																		
Remarks: Disturbed soil profile from fill/excavation																																																																								
VEGETATION																																																																								
Dominant Species (50/20 Rule)																																																																								
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SOILS																																																																								
Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroder Series Drainage Class: Moderately well drained																																																																								
Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																								
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10	17	B1	10YR 4/2.5	10YR 3/1	many distinct	sandy clay, moist, very firm																																																																		
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Remarks: Redox in fill material meets (F8), but fill not indicative of native profile and current conditions. No wet vegetation and no hydrology so any hydric indicators are relic or non-native																																																																								
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Site: Inaugural South Suburban Airport
 Locale: W02SE9
 Date: October 6, 2008 30 minutes
 By: AECOM: A. Amelse; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SE9.inv

FLORISTIC QUALITY DATA	Native	9	75.0%	Adventive	3	25.0%
9 NATIVE SPECIES	Tree	2	16.7%	Tree	0	0.0%
12 Total Species	Shrub	1	8.3%	Shrub	0	0.0%
2.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.5 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.0 NATIVE FQI	P-Forb	4	33.3%	P-Forb	1	8.3%
5.2 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-3.3 NATIVE MEAN W	A-Forb	2	16.7%	A-Forb	0	0.0%
-2.7 W/Adventives	P-Grass	0	0.0%	P-Grass	2	16.7%
AVG: Fac. Wetland	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POACOM	0 POA COMPRESSA	2 FACU+	Ad P-Grass	CANADA BLUE GRASS
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
TYPLAT	1 Typha latifolia	-5 OBL	Nt P-Forb	BROAD-LEAVED CATTAIL

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
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Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																								
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WETLAND DETERMINATION																																																									
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Remarks: This plot is not located in a wetland.																																																									

Site: Inaugural South Suburban Airport
 Locale: W02SE10
 Date: October 6, 2008 30 minutes
 By: AECOM: A. Amelse; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\final033110\W02SE10.inv

FLORISTIC QUALITY DATA	Native	13	72.2%	Adventive	5	27.8%
13 NATIVE SPECIES	Tree	1	5.6%	Tree	1	5.6%
18 Total Species	Shrub	3	16.7%	Shrub	1	5.6%
2.2 NATIVE MEAN C	W-Vine	2	11.1%	W-Vine	0	0.0%
1.6 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
8.0 NATIVE FQI	P-Forb	4	22.2%	P-Forb	0	0.0%
6.8 W/Adventives	B-Forb	0	0.0%	B-Forb	1	5.6%
-1.5 NATIVE MEAN W	A-Forb	2	11.1%	A-Forb	1	5.6%
-0.4 W/Adventives	P-Grass	1	5.6%	P-Grass	1	5.6%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
LAPECH	0 LAPPULA ECHINATA	5 UPL	Ad A-Forb	BEGGAR'S LICE
LONMUE	0 LONICERA X MUENDENIENSIS	5 UPL	Ad Shrub	COMMON FLY HONEYSUCKLE
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PILPUM	5 Pilea pumila	-3 FACW	Nt A-Forb	CLEARWEED
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
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Investigator #1: Ann Amelse #2: Robyn West						State: Illinois																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: Wetland Complex																																																											
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Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: S1																																																											
Remarks: Low area in ag field																																																																	
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Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained																																																																	
Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																	
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2. <i>Setaria faberi</i>	FACU+	HERB	5		8. <i>Phleum pratense</i>	FACU	HERB	20																																																																
3. <i>Solidago altissima</i>	FACU	HERB	20		9. <i>Helianthus grosseserratus</i>	FACW-	HERB	5																																																																
4. <i>Panicum virgatum</i>	FAC+	HERB	1		10. --	--	--	--																																																																
5. <i>Poa compressa</i>	FACU+	HERB	5		11. --	--	--	--																																																																
6. <i>Aster lateriflorus</i>	FACW-	HERB	5		12. --	--	--	--																																																																
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0%																																																																								
Remarks: Hydrophytic vegetation is not dominant.																																																																								
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<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)																																																																			
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Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review.																																																																								
SOILS																																																																								
Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, sev. eroded Series Drainage Class: Moderately well drained																																																																								
Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																								
Profile Description:																																																																								
Top	Bottom		Matrix Color	Mottle Colors	Mottle	Texture, moisture, consistency, organic material, and other soil characteristics.																																																																		
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0	9	A	10YR 3/2	NA NA	NA NA	silt loam, moist, friable																																																																		
9	14	Bt1	10YR 4/2.5	7.5YR 5/8	common prominent	clay loam, moist, firm																																																																		
14	21	Btg	2.5Y 4.5/1	10YR 4/6	common prominent	clay, moist, firm																																																																		
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DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: T. Radke #2: R. West						Date: 05/04/08 County: Will State: Illinois Community ID: Upland Station ID: W02SE-11 Plot ID: NA																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)																																																																	
Remarks: Tiled grassed waterway in upland soil unit.																																																																	
VEGETATION																																																																	
Dominant Species (50/20 Rule)																																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Species Name</th> <th style="width: 15%;">Ind. Status</th> <th style="width: 15%;">Stratum</th> <th style="width: 15%;">% Cover</th> </tr> </thead> <tbody> <tr><td>1. <i>Bromus inermis</i></td><td>UPL</td><td>HERB</td><td></td></tr> <tr><td>2. <i>Festuca elatior</i></td><td>UPL</td><td>HERB</td><td></td></tr> <tr><td>3. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>4. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>5. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>6. --</td><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>					Species Name	Ind. Status	Stratum	% Cover	1. <i>Bromus inermis</i>	UPL	HERB		2. <i>Festuca elatior</i>	UPL	HERB		3. --	--	--	--	4. --	--	--	--	5. --	--	--	--	6. --	--	--	--	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Species Name</th> <th style="width: 15%;">Ind. Status</th> <th style="width: 15%;">Stratum</th> <th style="width: 15%;">% Cover</th> </tr> </thead> <tbody> <tr><td>7. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>8. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>9. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>10. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>11. --</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>12. --</td><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>					Species Name	Ind. Status	Stratum	% Cover	7. --	--	--	--	8. --	--	--	--	9. --	--	--	--	10. --	--	--	--	11. --	--	--	--	12. --	--	--	--
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HYDROLOGY																																																																	
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SOILS																																																																	
Map Unit Name: Markham/Ozaukee silt loams Series Drainage Class: Both moderately well drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs/Oxyaquic Hapludalf Field Observations Confirm Mapped Type? No soil core taken* Yes _____ No _____																																																																	
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Remarks: This plot is not located in wetland.* No soil core taken. *Vegetation and hydrology do not meet wetland criteria, so no soil core taken.																																																																	

Site: Inaugural South Suburban Airport
 Locale: W02SE12
 Date: May 4, 2009 30 minutes
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\redone\W02SE12.inv
 Notes: FQI for W02SE12a and 12b

FLORISTIC QUALITY DATA	Native	9	56.3%	Adventive	7	43.8%
9 NATIVE SPECIES	Tree	0	0.0%	Tree	2	12.5%
16 Total Species	Shrub	3	18.8%	Shrub	1	6.3%
3.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
9.0 NATIVE FQI	P-Forb	2	12.5%	P-Forb	0	0.0%
6.8 W/Adventives	B-Forb	0	0.0%	B-Forb	1	6.3%
-1.6 NATIVE MEAN W	A-Forb	2	12.5%	A-Forb	0	0.0%
-0.8 W/Adventives	P-Grass	1	6.3%	P-Grass	3	18.8%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	1	6.3%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
ALLPET	0 ALLIARIA PETIOLATA	0 FAC	Ad B-Forb	GARLIC MUSTARD
CXCRIS	4 Carex cristatella	-4 FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
COROBL	6 Cornus obliqua	-4 FACW+	Nt Shrub	BLUE-FRUITED DOGWOOD
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
GALAPA	1 Galium aparine	3 FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEULAT	2 Geum laciniatum trichocarpum	-3 FACW	Nt P-Forb	ROUGH AVENS
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PLARUG	0 Plantago rugelii	0 FAC	Nt A-Forb	RED-STALKED PLANTAIN
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
ROBPSE	0 ROBINIA PSEUDOACACIA	4 FACU-	Ad Tree	BLACK LOCUST
ROSMUL	0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
VIOSOR	3 Viola sororia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 4-May-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SE-12 SC-1
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): Flat
 Slope %: 0 Lat: 41.37212178 Long: -87.69887516 Datum: NAD83 Illinois East
 Soil Unit Name: Ashkum silty clay loam NWI Classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Hydic Soils Present? Yes <u>X</u> No <u> </u>	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampling Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: Large silky dogwood thicket			

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u> 3 </u> (A) Total Number of Dominant Species Across All Strata: <u> 3 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 100% </u> (A/B)
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				
Sapling/Shrub Stratum (Plot size: <u> </u>)	75	Y	FACW	Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> 0 </u> FACW species <u> </u> x 2 = <u> 0 </u> FAC species <u> </u> x 3 = <u> 0 </u> FACU species <u> </u> x 4 = <u> 0 </u> UPL species <u> </u> x 5 = <u> 0 </u> Column Totals <u> 0 </u> (A) <u> 0 </u> (B) Prevalence Index = B/A = <u> #DIV/0! </u>
1. <u>Cornus amomum</u>				
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
Total Cover: <u> </u>				
Herb Stratum (Plot size: <u> </u>)	10	Y	FACW	Hydrophytic Vegetation Indicators: Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) <u> </u> *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Cornus amomum</u>				
2. <u>Geum laciniatum</u>				
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
6. <u> </u>				
7. <u> </u>				
8. <u> </u>				
9. <u> </u>				
10. <u> </u>				
Total Cover: <u> </u>				
Woody Vine Stratum (Plot size: <u> </u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u> </u>				
2. <u> </u>				
Total Cover: <u> </u>				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: **W02SE-12 SC-1**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-14	10YR 2/1	99	10YR 6/4	1	D	M	silty clay loam	Moist, friable
14-21	5Y 4/1	90	10YR 4/6	5	C	M	silty clay	Moist, firm
			5Y 5/3	5	D	M		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☒ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☒ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

- ☒ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☒ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____
 Water Table Present? Yes ☐ No ☒ Depth (inches): _____
 Saturation Present? Yes ☐ No ☒ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 4-May-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SE-12U SC-2
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): Flat
 Slope %: 0 Lat: 41.37212178 Long: -87.69887516 Datum: NAD83 Illinois East
 Soil Unit Name: Ashkum silty clay loam NWI Classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u>	No <u>X</u>	Is the Sampling Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soils Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			
Remarks:					

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u> 1 </u> (A) Total Number of Dominant Species Across All Strata: <u> 7 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 14% </u> (A/B)
1. <u>Prunus americana</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>30</u>				
Sapling/Shrub Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> 0 </u> FACW species <u> </u> x 2 = <u> 0 </u> FAC species <u> </u> x 3 = <u> 0 </u> FACU species <u> </u> x 4 = <u> 0 </u> UPL species <u> </u> x 5 = <u> 0 </u> Column Totals <u> 0 </u> (A) <u> 0 </u> (B) Prevalence Index = B/A = <u> #DIV/0! </u>
1. <u>Cornus stolonifera</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Prunus americana</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Juglans nigra</u>	<u>15</u>	<u>N</u>	<u>FACU</u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>65</u>				
Herb Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) <u> </u> *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Achillea millefolium</u>	<u>25</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Solidago altissima</u>	<u>25</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Poa pratensis</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Festuca elatior</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	
5. <u>Trifolium repens</u>	<u>35</u>	<u>Y</u>	<u>FACU</u>	
6. <u>Taraxacum officinale</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
7. <u>Daucus carota</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u>140</u>				
Woody Vine Stratum (Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
Total Cover: <u> </u>				

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: **W02SE-12U SC-2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-11	10YR 4/2	90	10YR 5/6	10	C	M	clay loam	Moist, friable; some gravel
11-20	10YR 5/2	70	10YR 5/6	30	C	M	clay loam	Moist, firm

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes X No

Remarks:

Soil profile matches F3 hydric indicator, but also appears to be eroded surface of the sub-soil layer.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No X Depth (inches): _____
 Water Table Present? Yes No X Depth (inches): _____
 Saturation Present? Yes No X Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Site: Inaugural South Suburban Airport
 Locale: W02SW1
 Date: April 24, 2009 1 hours
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W02SW1.inv

FLORISTIC QUALITY DATA	Native	14	70.0%	Adventive	6	30.0%
14 NATIVE SPECIES	Tree	3	15.0%	Tree	0	0.0%
20 Total Species	Shrub	2	10.0%	Shrub	0	0.0%
1.9 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.3 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.9 NATIVE FQI	P-Forb	6	30.0%	P-Forb	1	5.0%
5.8 W/Adventives	B-Forb	0	0.0%	B-Forb	3	15.0%
-0.8 NATIVE MEAN W	A-Forb	2	10.0%	A-Forb	0	0.0%
0.0 W/Adventives	P-Grass	0	0.0%	P-Grass	2	10.0%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	1	5.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
ALLCER	7 Allium cernuum	1 [FAC-]	Nt P-Forb	NODDING WILD ONION
BARVUL	0 BARBAREA VULGARIS	0 FAC	Ad B-Forb	YELLOW ROCKET
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
CYPESC	0 Cyperus esculentus	-1 [FAC+]	Nt P-Sedge	FIELD NUT SEDGE
EUPSEM	0 Eupatorium serotinum	-1 FAC+	Nt P-Forb	LATE BONESET
GALAPA	1 Galium aparine	3 FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELAUT	5 Helenium autumnale	-4 FACW+	Nt P-Forb	SNEEZEWEED
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
MELALB	0 MELILOTUS ALBA	3 FACU	Ad B-Forb	WHITE SWEET CLOVER
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
POTSIS	4 Potentilla simplex	4 FACU-	Nt P-Forb	COMMON CINQUEFOIL
RANABO	0 Ranunculus abortivus	-2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
TRIREF	0 TRIFOLIUM REPENS	2 FACU+	Ad P-Forb	WHITE CLOVER

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 24-Apr-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-1 SC-1
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): Drainageway Local relief (concave, convex, none): concave
 Slope %: 1 Lat: 41.37597275 Long: -87.70536551 Datum: NAD83 Illinois East
 Soil Unit Name: Drummer silty clay loam NWI Classification: Wetland Complex

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Hydric Soils Present? Yes <u>X</u> No <u> </u>	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampling Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: Large grassy area w/tiled drainageway			

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u> </u>) 1. <u> </u> 2. <u> </u> 3. <u>--</u> 4. <u>--</u> 5. <u>--</u> Total Cover: <u> </u>	Absolute % Cover <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	Dominant Species? <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	Indicator Status <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
Sapling/Shrub Stratum (Plot size: <u> </u>) 1. <u>Salix exigua</u> 2. <u>--</u> 3. <u>--</u> 4. <u>--</u> 5. <u>--</u> Total Cover: <u>35</u>	<u>35</u>	<u>Y</u>	<u>OBL</u>	Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Herb Stratum (Plot size: <u> </u>) 1. <u>Phalaris arundinacea</u> 2. <u>Poa pratensis</u> 3. <u>Bromus inermis</u> 4. <u>Ranunculus abortivus</u> 5. <u>--</u> 6. <u>--</u> 7. <u>--</u> 8. <u>--</u> 9. <u>--</u> 10. <u>--</u> Total Cover: <u>102</u>	<u>65</u> <u>35</u> <u>1</u> <u>1</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	<u>Y</u> <u>Y</u> <u>N</u> <u>N</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	<u>FACW</u> <u>FAC</u> <u>UPL</u> <u>FACW</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	Hydrophytic Vegetation Indicators: Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) <u> </u> *Indicators of hydric soil and wetland hydrology must be present.
Woody Vine Stratum (Plot size: <u> </u>) 1. <u>--</u> 2. <u>--</u> Total Cover: <u> </u>	<u> </u> <u> </u> <u> </u>	<u> </u> <u> </u> <u> </u>	<u> </u> <u> </u> <u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
Remarks: (Include photo numbers here or on a separate sheet.)				

SOILSampling Point: **W02SW-1 SC-1****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-6	10YR 3/1	100					Moist, friable, silty clay loam	
6-14	10YR 5/2	50	2.5N	25	CS	M	Moist, friable, silty clay loam	
			10YR 5/6	25	CS	M		
14-17	10YR 4/1	100					Moist, firm, silty clay	
17-21	10YR 5/1	85	10YR 5/6	25	CS	M	Moist, firm, silty clay	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☒ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes X No _____

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☒ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____
Water Table Present? Yes _____ No X Depth (inches): _____
Saturation Present? Yes _____ No X Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 24-Apr-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-1 SC-2
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): terrace Local relief (concave, convex, none): concave
 Slope %: 2 Lat: 41.37597275 Long: -87.70536551 Datum: NAD83 Illinois East
 Soil Unit Name: Drummer silty clay loam and Markham silt loam NWI Classification: Wetland Complex

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology _____ Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampling Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soils Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			
Remarks: Ditching and tiling probable					

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. --	_____	_____	_____	_____	
2. --	_____	_____	_____	_____	
3. --	_____	_____	_____	_____	
4. --	_____	_____	_____	_____	
Total Cover: _____					Prevalence Index Worksheet: Total % Cover of _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>1</u> x 3 = <u>3</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>3</u> x 5 = <u>15</u> Column Totals <u>6</u> (A) <u>26</u> (B) Prevalence Index = B/A = <u>4.3</u>
Sapling/Shrub Stratum	(Plot size: _____)	_____	_____	_____	
1. --	_____	_____	_____	_____	
2. --	_____	_____	_____	_____	
3. --	_____	_____	_____	_____	
Total Cover: _____					
Herb Stratum	(Plot size: _____)	_____	_____	_____	Hydrophytic Vegetation Indicators: <u>N</u> Dominance Test is >50% <u>N</u> Prevalence Index is >3.0* _____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Rubus allegheniensis</u>	_____	<u>10</u>	<u>N</u>	FACU	
2. <u>Bromus inermis</u>	_____	<u>40</u>	<u>Y</u>	UPL	
3. <u>Poa pratensis</u>	_____	<u>90</u>	<u>Y</u>	FAC	
4. <u>Solidago nemoralis</u>	_____	<u>10</u>	<u>N</u>	UPL	
5. <u>Potentilla simplex</u>	_____	<u>1</u>	<u>N</u>	FACU	
6. <u>Daucus carota</u>	_____	<u>1</u>	<u>N</u>	UPL	
7. --	_____	_____	_____	_____	
8. --	_____	_____	_____	_____	
9. --	_____	_____	_____	_____	
Total Cover: <u>152</u>					
Woody Vine Stratum	(Plot size: _____)	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1. --	_____	_____	_____	_____	
2. --	_____	_____	_____	_____	
Total Cover: _____					
Remarks: (Include photo numbers here or on a separate sheet.)					

SOILSampling Point: **W02SW-1 SC-2****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-18	10YR 2/1	100					Silty clay loam	Moist friable
18-20	10YR 4/2	80	10YR 6/6	5	C	PL	Sandy clay loam	Moist friable
			10YR2/1	15	CS	M		
20-21	2.5N	100					clay loam	Moist friable

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☒ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes X No

Remarks:

Soils match Drummer silty clay loam description

HYDROLOGY**Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply):

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No X Depth (inches): _____
Water Table Present? Yes No X Depth (inches): _____
Saturation Present? Yes No X Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Site: Inaugural South Suburban Airport
 Locale: W02SW3
 Date: April 23, 2009 1 hours
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W02SW3.inv

FLORISTIC QUALITY DATA	Native	12	63.2%	Adventive	7	36.8%
12 NATIVE SPECIES	Tree	3	15.8%	Tree	1	5.3%
19 Total Species	Shrub	2	10.5%	Shrub	2	10.5%
2.1 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.3 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
7.2 NATIVE FQI	P-Forb	3	15.8%	P-Forb	0	0.0%
5.7 W/Adventives	B-Forb	0	0.0%	B-Forb	1	5.3%
-2.7 NATIVE MEAN W	A-Forb	1	5.3%	A-Forb	0	0.0%
-1.6 W/Adventives	P-Grass	1	5.3%	P-Grass	3	15.8%
AVG: Fac. Wetland	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	2	10.5%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
BARVUL	0 BARBAREA VULGARIS	0 FAC	Ad B-Forb	YELLOW ROCKET
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
GEULAT	2 Geum laciniatum trichocarpum	-3 FACW	Nt P-Forb	ROUGH AVENS
LEMMIO	5 Lemna minor	-5 OBL	Nt A-Forb	SMALL DUCKWEED
LONTAT	0 LONICERA TATARICA	5 [UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PHRAUS	1 Phragmites australis	-4 FACW+	Nt P-Grass	COMMON REED
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
ROSMUL	0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
SALALB	0 SALIX ALBA	-3 FACW	Ad Tree	WHITE WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SCIFLU	4 Scirpus fluviatilis	-5 OBL	Nt P-Sedge	RIVER BULRUSH
SCIVAC	5 Scirpus validus creber	-5 OBL	Nt P-Sedge	GREAT BULRUSH
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 23-Apr-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-3 S2
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave
 Slope %: 1 Lat: 41.37082854 Long: -87.70520097 Datum: NAD83 Illinois East
 Soil Unit Name: Peotone silty clay loam NWI Classification: PEM/PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampling Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soils Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			
Remarks: Plot is near boundary of old field dominated by bromus and willow thicket at edge of open water.					

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC	<u>3</u> (A)
1. <u>Quercus palustris</u> (planted)		<u>10</u>	<u>Y</u>	<u>FACW</u>		
2. <u>Acer saccharinum</u>		<u>20</u>	<u>Y</u>	<u>FACW</u>		
3. <u> </u>						
4. <u> </u>						
5. <u> </u>						
Total Cover:		<u>30</u>			Total Number of Dominant Species Across All Strata:	<u>5</u> (B)
Sapling/Shrub Stratum (Plot size: <u> </u>)					Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>60%</u> (A/B)
1. <u>Salix exigua</u>		<u>50</u>	<u>Y</u>	<u>OBL</u>		
2. <u>Rubus allegheniensis</u>		<u>20</u>	<u>Y</u>	<u>FACU</u>		
3. <u> </u>						
4. <u> </u>						
5. <u> </u>						
Total Cover:		<u>70</u>				
Herb Stratum (Plot size: <u> </u>)						
1. <u>Bromus inermis</u>		<u>90</u>	<u>Y</u>	<u>UPL</u>		
2. <u> </u>						
3. <u> </u>						
4. <u> </u>						
5. <u> </u>						
6. <u> </u>						
7. <u> </u>						
8. <u> </u>						
9. <u> </u>						
10. <u> </u>						
Total Cover:		<u>90</u>				
Woody Vine Stratum (Plot size: <u> </u>)						
1. <u> </u>						
2. <u> </u>						
Total Cover:		<u> </u>				
Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u> </u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>						
Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is >3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.						
Hydrophytic Vegetation Present?					Yes <u>X</u>	No <u> </u>
Remarks: (Include photo numbers here or on a separate sheet.)						

SOILSampling Point: **W02SW-3 S2****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-6	10YR 2/1	100					Silty clay loam	some gravel
6-20	10YR 3/1	80	10YR 5/3	15	C	M	Silty clay loam	some gravel
			10YR5/6	5	C	M		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes X No

Remarks:

Concretions and oxidized root channels in upper 6"**HYDROLOGY****Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply):

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☒ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No X Depth (inches): _____
Water Table Present? Yes No X Depth (inches): _____
Saturation Present? Yes No X Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Oxidized root channels

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 23-Apr-09

Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-3 SC-1

Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E

Landform (hillside, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave

Slope %: 0 Lat: 41.37082854 Long: -87.70520097 Datum: NAD83 Illinois East

Soil Unit Name: Peotone silty clay loam NWI Classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____

Are Vegetation _____ Soil _____ or hydrology _____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____ Soil _____ or hydrology _____ Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampling Area within a Wetland?	Yes _____ No <u>X</u>
Hydric Soils Present?	Yes _____	No <u>X</u>		
Wetland Hydrology Present?	Yes _____	No <u>X</u>		
Remarks:				

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:
1. <u>Quercus macrocarpa</u>	<u>(planted)</u>	<u>50</u>	<u>Y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. <u>--</u>	_____	_____	_____	_____	
4. <u>--</u>	_____	_____	_____	_____	
5. <u>--</u>	_____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25%</u> (A/B)
Total Cover: <u>50</u>					Prevalence Index Worksheet: Total % Cover of _____ Multiply by: _____ OBL species _____ x 1 = <u>0</u> FACW species _____ x 2 = <u>0</u> FAC species _____ x 3 = <u>0</u> FACU species _____ x 4 = <u>0</u> UPL species _____ x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Rubus allegheniensis</u>	_____	<u>25</u>	<u>Y</u>	<u>FACU</u>	
2. <u>--</u>	_____	_____	_____	_____	
3. <u>--</u>	_____	_____	_____	_____	
4. <u>--</u>	_____	_____	_____	_____	Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is *3.0* _____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
5. <u>--</u>	_____	_____	_____	_____	
Total Cover: <u>25</u>					
Herb Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Bromus inermis</u>	_____	<u>80</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Solidago altissima</u>	_____	<u>20</u>	<u>Y</u>	<u>FACU</u>	
3. <u>--</u>	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
4. <u>--</u>	_____	_____	_____	_____	
5. <u>--</u>	_____	_____	_____	_____	
6. <u>--</u>	_____	_____	_____	_____	
7. <u>--</u>	_____	_____	_____	_____	
8. <u>--</u>	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
9. <u>--</u>	_____	_____	_____	_____	
10. <u>--</u>	_____	_____	_____	_____	
Total Cover: <u>100</u>					
Woody Vine Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>--</u>	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
2. <u>--</u>	_____	_____	_____	_____	
Total Cover: _____					
Remarks: (Include photo numbers here or on a separate sheet.)					

SOILSampling Point: **W02SW-3 SC-1****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-9	10YR 2/2	100					Moist, friable, silty clay loam	
9-12	10YR4/3	95	10YR 6/3	5			Moist, friable, silty clay loam	
12-20	10YR 5/6	75	10YR 5/6	25			Moist, firm; clay	wet at 19"; some gravel

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes _____ No **X** _____

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** _____ Depth (inches): _____
Water Table Present? Yes _____ No **X** _____ Depth (inches): _____
Saturation Present? Yes _____ No **X** _____ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Site: Inaugural South Suburban Airport
 Locale: W02SW5
 Date: May 1, 2009 30 minutes
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SW5.inv

FLORISTIC QUALITY DATA	Native	10	71.4%	Adventive	4	28.6%
10 NATIVE SPECIES	Tree	2	14.3%	Tree	1	7.1%
14 Total Species	Shrub	0	0.0%	Shrub	1	7.1%
2.1 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.5 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.6 NATIVE FQI	P-Forb	5	35.7%	P-Forb	0	0.0%
5.6 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-3.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-2.1 W/Adventives	P-Grass	0	0.0%	P-Grass	2	14.3%
AVG: Fac. Wetland	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	2	14.3%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	1	7.1%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
CXCRIS	4 Carex cristatella	-4 FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
ELEERY	2 Eleocharis erythropoda	-5 OBL	Nt P-Sedge	RED-ROOTED SPIKE RUSH
EPICOL	3 Epilobium coloratum	-5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
EQUARV	0 Equisetum arvense	0 FAC	Cryptogam	HORSETAIL
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
LYCAME	5 Lycopus americanus	-5 OBL	Nt P-Forb	COMMON WATER HOREHOUND
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
ROBPSE	0 ROBINIA PSEUDOACACIA	4 FACU-	Ad Tree	BLACK LOCUST
ROSMUL	0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
ULMAME	3 Ulmus americana	-2 FACW-	Nt Tree	AMERICAN ELM

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/1/2009
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-5 SC-1
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): slope Local relief (concave, convex, none): concave
 Slope %: 2 Lat: 41.37475907 Long: -87.70714816 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silt loam (Drummer silty clay loam is mapped adjacent) NWI Classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampling Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soils Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			
Remarks: Seepy drainageway with sedge meadow community					

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC	<u>5</u> (A)
1. <u>Ulmus americana</u>		<u>25</u>	<u>Y</u>	<u>FACW</u>		
2. <u> </u>						
3. <u> </u>						
4. <u> </u>						
5. <u> </u>						
Total Cover:		<u>25</u>				
Sapling/Shrub Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Total Number of Dominant Species Across All Strata:	<u>6</u> (B)
1. <u>Robinia pseudoacacia</u>		<u>20</u>	<u>Y</u>	<u>FACU</u>		
2. <u> </u>						
3. <u> </u>						
4. <u> </u>						
5. <u> </u>						
Total Cover:		<u>20</u>				
Herb Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>83%</u> (A/B)
1. <u>Agrostis alba</u>		<u>50</u>	<u>Y</u>	<u>FACW</u>		
2. <u>Phalaris arundinacea</u>		<u>25</u>	<u>Y</u>	<u>FACW</u>		
3. <u>Lycopus americanus</u>		<u>10</u>		<u>OBL</u>		
4. <u>Carex cristatella</u>		<u>25</u>	<u>Y</u>	<u>FACW</u>		
5. <u>Epilobium coloratum</u>		<u>25</u>	<u>Y</u>	<u>OBL</u>		
6. <u> </u>						
7. <u> </u>						
8. <u> </u>						
9. <u> </u>						
10. <u> </u>						
Total Cover:		<u>135</u>				
Woody Vine Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by:	
1. <u> </u>						
2. <u> </u>						
Total Cover:						
OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>						
Hydrophytic Vegetation Indicators: <u> </u> Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.						
Remarks: (Include photo numbers here or on a separate sheet.) Sedge meadow in drainageway					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	

SOILSampling Point: **W02SW-5 SC-1****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-7	10YR 2/1	98	10YR 4/3	2	RM	M	Mucky, silty loam; wet	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☒ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes X No

Remarks:

Soil core inundated below 7"**HYDROLOGY****Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply):

☒ Surface Water (A1)
☒ High Water Table (A2)
☒ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No Depth (inches): <1
Water Table Present? Yes X No Depth (inches): 0*
Saturation Present? Yes X No Depth (inches): 0*
(includes capillary fringe)

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Water at surface

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/1/2009Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-5U SC-2Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13ELandform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): ConcaveSlope %: 4 Lat: 41.37475907 Long: -87.70714816 Datum: NAD83 Illinois EastSoil Unit Name: Markham silt loam/Ozaukee silt loam NWI Classification: UPLAre climatic / hydrologic conditions on the site typical for this time of year? Yes X No Are Vegetation Soil or hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u> </u>	No <u>X</u>	Is the Sampling Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soils Present?	Yes <u> </u>	No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>		
Remarks: Seepy hillside has wetland elements in vegetation. Phalaris grows uphill.				

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
1. <u>Ulmus rubra</u>		<u>30</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Robinia pseudoacacia</u>		<u>35</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Acer negundo</u>		<u>1</u>	<u>N</u>	<u>FACW</u>	
4. <u> </u>					
Total Cover: <u>66</u>					Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Robinia pseudoacacia</u>		<u>30</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Rosa multiflora</u>		<u>5</u>	<u>N</u>	<u>FACU</u>	
3. <u> </u>					
Total Cover: <u>35</u>					
Herb Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <u> </u> Dominance Test is >50% <u> </u> Prevalence Index is *3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Poa pratensis</u>		<u>45</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Bromus inermis</u>		<u>35</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Phalaris arundinacea</u>		<u>5</u>	<u>N</u>	<u>FACW</u>	
4. <u>Pastinaca sativa</u>		<u>2</u>	<u>N</u>	<u>UPL</u>	
5. <u>Solidago altissima</u>		<u>25</u>	<u>Y</u>	<u>FACU</u>	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
6. <u>Taraxacum officinale</u>		<u>1</u>	<u>N</u>	<u>FACU</u>	
7. <u>Morus alba</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	
8. <u>Geum canadense</u>		<u>3</u>	<u>N</u>	<u>FAC</u>	
9. <u>Arctium minus</u>		<u>3</u>	<u>N</u>	<u>UPL</u>	
Total Cover: <u>120</u>					
Woody Vine Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u> </u>					
2. <u> </u>					
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

Sampling Point: **W02SW-5U SC-2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-8	10YR 4/3	100					Silty clay loam	
8-15	10YR 5/3	84	10YR 4/1	1	C	PL	Silty clay loam	
			10YR5/6	15	C	M		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes _____ No **X**

Remarks:

Soil core uphill from wetland point on slope; inundated at 15".

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☒ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** Depth (inches): _____
 Water Table Present? Yes **X** No _____ Depth (inches): **4**
 Saturation Present? Yes _____ No **X** Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes **X** No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Seepy hillside

Site: Inaugural South Suburban Airport
 Locale: W02SW6
 Date: May 1, 2009 30 minutes
 By: AECOM; T. Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SW6.inv

FLORISTIC QUALITY DATA	Native	0	0.0%	Adventive	1	100.0%
0 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
1 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-4.0 W/Adventives	P-Grass	0	0.0%	P-Grass	1	100.0%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/1/2009
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-6 SC-1
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): concave
 Slope %: 0 Lat: 41.37297593 Long: -87.70675139 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silt loam and Drummer silty clay loam NWI Classification: not mapped; PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampling Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soils Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			
Remarks: Grassy tiled drainageway; vent observed					

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>--</u>					
2. <u>--</u>					
3. <u>--</u>					
4. <u>--</u>					
5. <u>--</u>					
Total Cover: <u> </u>					
Sapling/Shrub Stratum	(Plot size: <u> </u>)				Prevalence Index Worksheet: Total % Cover of <u> </u> Multiply by: OBL species <u> </u> x 1 = <u>0</u> FACW species <u> </u> x 2 = <u>0</u> FAC species <u> </u> x 3 = <u>0</u> FACU species <u> </u> x 4 = <u>0</u> UPL species <u> </u> x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
1. <u>--</u>					
2. <u>--</u>					
3. <u>--</u>					
4. <u>--</u>					
5. <u>--</u>					
Total Cover: <u> </u>					
Herb Stratum	(Plot size: <u> </u>)				Hydrophytic Vegetation Indicators: <u> </u> Dominance Test is >50% <u> </u> Prevalence Index is >3.0* <u> </u> Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u>Phalaris arundinacea</u>		<u>100</u>	<u>Y</u>	<u>FACW</u>	
2. <u>--</u>					
3. <u>--</u>					
4. <u>--</u>					
5. <u>--</u>					
6. <u>--</u>					
7. <u>--</u>					
8. <u>--</u>					
9. <u>--</u>					
10. <u>--</u>					
Total Cover: <u>100</u>					
Woody Vine Stratum	(Plot size: <u> </u>)				
1. <u>--</u>					
2. <u>--</u>					
Total Cover: <u> </u>					
Remarks: (Include photo numbers here or on a separate sheet.) Grassy field with evidence of drainage tile					

SOIL

Sampling Point: **W02SW-6 SC-1**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-6	10YR 4/2	99	10YR 7/3	0.5	D	PL	Silty clay loam	very moist
			10YR 7/6	0.5	D	PL		
6-20	10YR 5/3	60	10YR 5/6	15	C	M	Silty clay loam: 6-15	moist;
				15	C	M	Silty clay: 15-20	moist; firm

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes _____ No **X**

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☒ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** Depth (inches): _____
Water Table Present? Yes **X** No _____ Depth (inches): 2"
Saturation Present? Yes _____ No **X** Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes **X** No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

1.5 inches of rain in previous 3days probably accounts for high water table in plot

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/1/2009
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-6 SC-2
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): concave
 Slope %: 0 Lat: 41.37281837 Long: -87.7062927 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silt loam and Drummer silty clay loam NWI Classification: Not mapped; PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampling Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soils Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			
Remarks: Agricultural tile is present					

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>--</u>				
2. <u>--</u>				
3. <u>--</u>				
4. <u>--</u>				
5. <u>--</u>				
Total Cover: <u> </u>				
Sapling/Shrub Stratum	(Plot size: <u> </u>)			
1. <u>--</u>				
2. <u>--</u>				
3. <u>--</u>				
4. <u>--</u>				
5. <u>--</u>				
Total Cover: <u> </u>				
Herb Stratum	(Plot size: <u> </u>)			
1. <u>Phalaris arundinacea</u>		<u>100</u>	<u>Y</u>	<u>FACW</u>
2. <u>--</u>				
3. <u>--</u>				
4. <u>--</u>				
5. <u>--</u>				
6. <u>--</u>				
7. <u>--</u>				
8. <u>--</u>				
9. <u>--</u>				
10. <u>--</u>				
Total Cover: <u>100</u>				
Woody Vine Stratum	(Plot size: <u> </u>)			
1. <u>--</u>				
2. <u>--</u>				
Total Cover: <u> </u>				

Dominance Test Worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 1 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet:

Total % Cover of	Multiply by:	
OBL species	x 1 =	<u>0</u>
FACW species	x 2 =	<u>0</u>
FAC species	x 3 =	<u>0</u>
FACU species	x 4 =	<u>0</u>
UPL species	x 5 =	<u>0</u>
Column Totals	<u>0</u> (A)	<u>0</u> (B)

 Prevalence Index = B/A = #DIV/0!

Hydrophytic Vegetation Indicators:
 ___ Dominance Test is >50%
 ___ Prevalence Index is >3.0*
 ___ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation (Explain)
 *Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)
Grassy tiled drainageway is monoculture of Reed Canary grass

SOILSampling Point: **W02SW-6 SC-2****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-10	10YR 3/2	95	10YR 5/3	5	D	M	Silty clay loam, Moist; friable	
10-20	10YR 5/3	60	10YR 5/6	15	D	M	Silty clay, Moist; firm	
			10YR 3/1	15	D	M		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes X No

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☒ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No X Depth (inches): _____
Water Table Present? Yes X No Depth (inches): 12
Saturation Present? Yes No X Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Field tile outlet present nearby (<50ft).

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/1/2009
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-6 SC-3
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): _____
 Slope %: 0 Lat: 41.37276566 Long: -87.7059567 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silt loam and Drummer silty clay loam NWI Classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology _____ Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampling Area within a Wetland? Yes <u>X</u> No _____
Hydric Soils Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: Drainage tile present	

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. --				
2. --				
3. --				
4. --				
5. --				
Total Cover: _____				
Sapling/Shrub Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Salix exigua</u>		<u>10</u>	<u>Y</u>	<u>OBL</u>
2. --				
3. --				
4. --				
5. --				
Total Cover: <u>10</u>				
Herb Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Phalaris arundinacea</u>		<u>100</u>	<u>Y</u>	<u>FACW</u>
2. --				
3. --				
4. --				
5. --				
6. --				
7. --				
8. --				
9. --				
10. --				
Total Cover: <u>100</u>				
Woody Vine Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. --				
2. --				
Total Cover: _____				

Dominance Test Worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 2 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet:
 Total % Cover of _____ Multiply by: _____
 OBL species _____ x 1 = 0
 FACW species _____ x 2 = 0
 FAC species _____ x 3 = 0
 FACU species _____ x 4 = 0
 UPL species _____ x 5 = 0
 Column Totals 0 (A) 0 (B)
 Prevalence Index = B/A = #DIV/0!

Hydrophytic Vegetation Indicators:
 _____ Dominance Test is >50%
 _____ Prevalence Index is >3.0*
 _____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation (Explain)
 *Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: **W02SW-6 SC-3**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-20	10YR 2.5/1	98	10YR 7/3	2	C	M	Silty clay loam	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☒ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No X Depth (inches): _____
Water Table Present? Yes X No Depth (inches): 18
Saturation Present? Yes X No Depth (inches): 11
(includes capillary fringe)

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/1/2009
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-6 SC-4
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): concave
 Slope %: 0 Lat: 41.37271166 Long: -87.70554156 Datum: NAD83 Illinois East
 Soil Unit Name: Markham silt loam and Drummer silty clay loam NWI Classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
 Are Vegetation Soil or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or hydrology Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampling Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soils Present?	Yes <u> </u>	No <u>X</u>		
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>		
Remarks: Drainage tile present				

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>--</u>				
2. <u>--</u>				
3. <u>--</u>				
4. <u>--</u>				
5. <u>--</u>				
Total Cover: <u> </u>				
Sapling/Shrub Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>--</u>				
2. <u>--</u>				
3. <u>--</u>				
4. <u>--</u>				
5. <u>--</u>				
Total Cover: <u> </u>				
Herb Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Phalaris arundinacea</u>		<u>90</u>	<u>Y</u>	<u>FACW</u>
2. <u>Bromus inermis</u>		<u>10</u>	<u>N</u>	<u>UPL</u>
3. <u>--</u>				
4. <u>--</u>				
5. <u>--</u>				
6. <u>--</u>				
7. <u>--</u>				
8. <u>--</u>				
9. <u>--</u>				
10. <u>--</u>				
Total Cover: <u>100</u>				
Woody Vine Stratum	(Plot size: <u> </u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>--</u>				
2. <u>--</u>				
Total Cover: <u> </u>				

Dominance Test Worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 1 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet:

Total % Cover of	Multiply by:	
OBL species	x 1 =	<u>0</u>
FACW species	x 2 =	<u>0</u>
FAC species	x 3 =	<u>0</u>
FACU species	x 4 =	<u>0</u>
UPL species	x 5 =	<u>0</u>
Column Totals		<u>0</u> (A) <u>0</u> (B)

 Prevalence Index = B/A = #DIV/0!

Hydrophytic Vegetation Indicators:
 ___ Dominance Test is >50%
 ___ Prevalence Index is >3.0*
 ___ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation (Explain)
 *Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)

SOILSampling Point: **W02SW-6 SC-4****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-12	10YR 4/2	100					Silty clay loam	Moist; friable
12-23	10YR 4/2	60	10YR 5/6	15	C	M	Silty clay	Moist; firm
			10YR 5/1	15	C	M		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes _____ No **X**

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply):

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** Depth (inches): _____
Water Table Present? Yes _____ No **X** Depth (inches): _____
Saturation Present? Yes _____ No **X** Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Site: Inaugural South Suburban Airport
 Locale: W02SW7
 Date: May 1, 2009 30 minutes
 By: AECOM: T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SW7.inv

FLORISTIC QUALITY DATA	Native	14	70.0%	Adventive	6	30.0%
14 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
20 Total Species	Shrub	1	5.0%	Shrub	0	0.0%
2.1 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.5 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
8.0 NATIVE FQI	P-Forb	5	25.0%	P-Forb	1	5.0%
6.7 W/Adventives	B-Forb	0	0.0%	B-Forb	2	10.0%
-1.2 NATIVE MEAN W	A-Forb	4	20.0%	A-Forb	0	0.0%
-0.7 W/Adventives	P-Grass	0	0.0%	P-Grass	3	15.0%
AVG: Faculative (+)	A-Grass	1	5.0%	A-Grass	0	0.0%
	P-Sedge	3	15.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACHMIL	0 ACHILLEA MILLEFOLIUM	3 FACU	Ad P-Forb	YARROW
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
BARVUL	0 BARBAREA VULGARIS	0 FAC	Ad B-Forb	YELLOW ROCKET
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CXCRIS	4 Carex cristatella	-4 FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
ELEERY	2 Eleocharis erythropoda	-5 OBL	Nt P-Sedge	RED-ROOTED SPIKE RUSH
EPICOL	3 Epilobium coloratum	-5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
ERIPHI	4 Erigeron philadelphicus	-3 FACW	Nt P-Forb	MARSH FLEABANE
JUNDUD	4 Juncus dudleyi	0 [FAC]	Nt P-Forb	DUDLEY'S RUSH
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PLARUG	0 Plantago rugelii	0 FAC	Nt A-Forb	RED-STALKED PLANTAIN
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
RANABO	0 Ranunculus abortivus	-2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLNEM	4 Solidago nemoralis	5 UPL	Nt P-Forb	OLD-FIELD GOLDENROD

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/1/2009
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-7 SC-2
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): plain Local relief (concave, convex, none): concave
 Slope %: 0 Lat: 41.37298062 Long: -87.70452396 Datum: NAD83 Illinois East
 Soil Unit Name: Ashkum silty clay loam NWI Classification: Not mapped; PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology _____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology _____ Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampling Area within a Wetland? Yes <u>X</u> No _____
Hydric Soils Present?* Yes <u>*</u> No _____	
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: *Soil core not taken due to inundation; Vegetation very sparsely scattered in ponded depression	

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. --				
2. --				
3. --				
4. --				
5. --				
Total Cover: _____				
Sapling/Shrub Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. --				
2. --				
3. --				
4. --				
5. --				
Total Cover: _____				
Herb Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Echinochloa crusgalli</u>		<u>10</u>	<u>Y</u>	<u>FACW</u>
2. <u>Phalaris arundinacea</u>		<u>5</u>		<u>FACW</u>
3. <u>Ranunculus abortivus</u>		<u>5</u>		<u>FACW</u>
4. <u>Epilobium coloratum</u>		<u>10</u>	<u>Y</u>	<u>OBL</u>
5. <u>Agrostis alba</u>		<u>25</u>	<u>Y</u>	<u>FACW</u>
6. --				
7. --				
8. --				
9. --				
10. --				
Total Cover: <u>55</u>				
Woody Vine Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. --				
2. --				
Total Cover: _____				

Dominance Test Worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet:
 Total % Cover of _____ Multiply by: _____
 OBL species _____ x 1 = 0
 FACW species _____ x 2 = 0
 FAC species _____ x 3 = 0
 FACU species _____ x 4 = 0
 UPL species _____ x 5 = 0
 Column Totals 0 (A) 0 (B)
 Prevalence Index = B/A = #DIV/0!

Hydrophytic Vegetation Indicators:
 _____ Dominance Test is >50%
 _____ Prevalence Index is >3.0*
 _____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation (Explain)
 *Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: **W02SW-7 SC-2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes * No

Remarks:

Mapped hydric (Ashkum silty clay loam).
*Not able to take soil core due to standing water.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☒ Surface Water (A1)
- ☒ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No Depth (inches): ~3-4
Water Table Present? Yes X No Depth (inches): surface
Saturation Present? Yes X No Depth (inches): surface
(includes capillary fringe)

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 5/1/2009
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-7U S1
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): plain Local relief (concave, convex, none): flat
 Slope %: 1 Lat: 41.37298062 Long: -87.70452396 Datum: NAD83 Illinois East
 Soil Unit Name: Beecher silt loam and Drummer silty clay loam NWI Classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology _____ Significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology _____ Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampling Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soils Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			
Remarks:					

VEGETATION - Use scientific names of plants.

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1. <u>Pinus strobus</u> (planted)		<u>50</u>	<u>Planted</u>	<u>FACU</u>	
2. <u>--</u>					
3. <u>--</u>					
4. <u>--</u>					
Total Cover: <u>50</u>					Prevalence Index Worksheet: Total % Cover of _____ Multiply by: OBL species _____ x 1 = <u>0</u> FACW species _____ x 2 = <u>0</u> FAC species _____ x 3 = <u>0</u> FACU species _____ x 4 = <u>0</u> UPL species _____ x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum	(Plot size: _____)				
1. <u>--</u>					
2. <u>--</u>					
3. <u>--</u>					
Total Cover: _____					
Herb Stratum	(Plot size: _____)				Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is *3.0* _____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1. <u>Bromus inermis</u>		<u>70</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Pastinaca sativa</u>		<u>25</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Achillea millefolium</u>		<u>10</u>	<u>N</u>	<u>FACU</u>	
4. <u>Solidago nemoralis</u>		<u>10</u>	<u>N</u>	<u>UPL</u>	
5. <u>Daucus carota</u>		<u>5</u>	<u>N</u>	<u>UPL</u>	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
6. <u>--</u>					
7. <u>--</u>					
8. <u>--</u>					
9. <u>--</u>					
Total Cover: <u>120</u>					
Woody Vine Stratum	(Plot size: _____)				
1. <u>--</u>					
2. <u>--</u>					
Total Cover: _____					
Remarks: (Include photo numbers here or on a separate sheet.)					

SOILSampling Point: **W02SW-7U S1****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-8	10YR 3/1	100						
8-20	10YR 5/2	80	10Yr 4/1	10	C	M		
			10YR 5/6	10	C	M		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☒ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes X No

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply):

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No X Depth (inches): _____
Water Table Present? Yes No X Depth (inches): _____
Saturation Present? Yes No X Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 4-May-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W025W-8
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): Berm Local relief (concave, convex, none): convex
 Slope %: 3 Lat: _____ Long: _____ Datum: NAD83 Illinois East
 Soil Unit Name: Markham silt loam NWI Classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology _____ Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampling Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soils Present? (no soil core) Yes _____ No <u>*</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: Long raised feature visible on NRCS aerial photos; appears to be location of drainage tile. *No soil core taken because of complete dominance of upland vegetation and no wetland hydrology.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. --	_____	_____	_____	
4. --	_____	_____	_____	
5. --	_____	_____	_____	Prevalence Index Worksheet: Total % Cover of _____ Multiply by: _____ OBL species _____ x 1 = <u>0</u> FACW species _____ x 2 = <u>0</u> FAC species _____ x 3 = <u>0</u> FACU species _____ x 4 = <u>0</u> UPL species _____ x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Total Cover: _____				
Sapling/Shrub Stratum (Plot size: _____) 1. _____ 2. -- 3. -- 4. -- 5. -- Total Cover: _____				
Herb Stratum (Plot size: _____) 1. <u>Bromus inermis</u> <u>90</u> <u>Y</u> <u>UPL</u> 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. -- 8. -- 9. -- 10. -- Total Cover: <u>90</u>				
Woody Vine Stratum (Plot size: _____) 1. -- 2. -- Total Cover: _____				
Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is >3.0* _____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.				
Hydrophytic Vegetation Present? Yes _____ No <u>X</u>				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOILSampling Point: **W02SW-8****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? * Yes _____ No _____

Remarks:

Hydric soils are not mapped.

*No soil core taken due to total dominance of upland veg and lack of wetland hydrology.

HYDROLOGY**Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply):

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** Depth (inches): _____
Water Table Present? Yes _____ No **X** Depth (inches): _____
Saturation Present? Yes _____ No **X** Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Linear pattern of raised berm observed on NRCS slide.

Site: Inaugural South Suburban Airport
 Locale: W02SW9
 Date: May 4, 2009 30 minutes
 By: AECOM; T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SW9.inv

FLORISTIC QUALITY DATA	Native	16	64.0%	Adventive	9	36.0%
16 NATIVE SPECIES	Tree	3	12.0%	Tree	0	0.0%
25 Total Species	Shrub	2	8.0%	Shrub	2	8.0%
2.4 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.6 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
9.8 NATIVE FQI	P-Forb	4	16.0%	P-Forb	3	12.0%
7.8 W/Adventives	B-Forb	0	0.0%	B-Forb	1	4.0%
-0.7 NATIVE MEAN W	A-Forb	4	16.0%	A-Forb	1	4.0%
0.0 W/Adventives	P-Grass	1	4.0%	P-Grass	2	8.0%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	1	4.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	1	4.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ARCMIN	0 ARCTIUM MINUS	5 UPL	Ad B-Forb	COMMON BURDOCK
CXCRIS	4 Carex cristatella	-4 FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
EQUHYE	3 Equisetum hyemale	-2 FACW-	Cryptogam	TALL SCOURING RUSH
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
GALAPA	1 Galium aparine	3 FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
GEULAT	2 Geum laciniatum trichocarpum	-3 FACW	Nt P-Forb	ROUGH AVENS
GLYSTR	4 Glyceria striata	-3 [FACW]	Nt P-Grass	FOWL MANNA GRASS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PRUSER	1 Prunus serotina	3 FACU	Nt Tree	WILD BLACK CHERRY
QUEPAU	8 Quercus palustris	-3 FACW	Nt Tree	PIN OAK
RANABO	0 Ranunculus abortivus	-2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RHACAT	0 RHAMNUS CATHARTICA	3 FACU	Ad Shrub	COMMON BUCKTHORN
ROSMUL	0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
VIOSOR	3 Viola sororia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 4-May-09

Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-9 SC-1

Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E

Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____

Slope %: _____ Lat: _____ Long: _____ Datum: NAD83 Illinois East

Soil Unit Name: _____ NWI Classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____

Are Vegetation _____ Soil _____ or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____ Soil _____ or hydrology _____ Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampling Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soils Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			
Remarks: Low spot in tree plantation; ID'd on NRCS review					

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>Taxodium distichum</u> (Planted)	<u>50</u>	<u>Planted</u>	<u>OBL</u>	
2. <u>Fraxinus pennsylvanica</u>	<u>25</u>	<u>Y</u>	<u>FACW</u>	
3. <u>--</u>				
4. <u>--</u>				
5. <u>--</u>				
Total Cover: <u>75</u>				Prevalence Index Worksheet: Total % Cover of _____ Multiply by: _____ OBL species _____ x 1 = <u>0</u> FACW species _____ x 2 = <u>0</u> FAC species _____ x 3 = <u>0</u> FACU species _____ x 4 = <u>0</u> UPL species _____ x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
Sapling/Shrub Stratum (Plot size: _____)				
1. <u>--</u>				
2. <u>--</u>				
3. <u>--</u>				
4. <u>--</u>				
5. <u>--</u>				
Total Cover: _____				Hydrophytic Vegetation Indicators: ____ Dominance Test is >50% ____ Prevalence Index is >3.0* ____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
Herb Stratum (Plot size: _____)				
1. <u>Geum laciniatum</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Cyperus esculentus</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Rumex crispus</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
4. <u>Helianthus grosseserratus</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
5. <u>--</u>				
6. <u>--</u>				
7. <u>--</u>				
8. <u>--</u>				
9. <u>--</u>				
10. <u>--</u>				
Total Cover: <u>35</u>				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
Woody Vine Stratum (Plot size: _____)				
1. <u>--</u>				
2. <u>--</u>				
Total Cover: _____				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOILSampling Point: **W02SW-9 SC-1****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-25	10YR 2/1	100					clay loam	Moist, blocky

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☒ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils*:**

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes ☒ No ☐

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☒ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☒ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☒ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ☒ Depth (inches): _____
Water Table Present? Yes _____ No ☒ Depth (inches): _____
Saturation Present? Yes _____ No ☒ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

NRCS ID

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Inaugural South Suburban Airport City/County: Will County Sampling Date: 4-May-09
 Applicant/Owner: Illinois Department of Transportation State: Illinois Sampling Point: W02SW-9 SC-2
 Investigator(s): T. Radke; Robyn West Section, Township, Range: Section 2; T33N; R13E
 Landform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): concave
 Slope %: 1 Lat: _____ Long: _____ Datum: NAD83 Illinois East
 Soil Unit Name: Ashkum silty clay loam NWI Classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology X Significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or hydrology _____ Naturally problematic? (if needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampling Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soils Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: Upland soil core next to NRCS ID'd swale; probably tiled	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
1. <u>Taxodium distichum</u> (Planted)	<u>35</u>	<u>Planted</u>	<u>OBL</u>	
2. _____	_____	_____	_____	Prevalence Index Worksheet: Total % Cover of _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>#DIV/0!</u>
3. --	_____	_____	_____	
4. --	_____	_____	_____	
5. --	_____	_____	_____	
Total Cover: <u>35</u>				
Sapling/Shrub Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is >3.0* _____ Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. --	_____	_____	_____	
Total Cover: _____				
Herb Stratum (Plot size: _____)				
1. <u>Achillea millefolium</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Daucus carota</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Solidago altissima</u>	<u>35</u>	<u>Y</u>	<u>UPL</u>	
4. <u>Taraxacum officinale</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
5. <u>Erigeron annuus</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
6. <u>Trifolium repens</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
7. <u>Bromus inermis</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	
8. --	_____	_____	_____	Remarks: (Include photo numbers here or on a separate sheet.)
9. --	_____	_____	_____	
10. --	_____	_____	_____	
Total Cover: <u>115</u>				
Woody Vine Stratum (Plot size: _____)				
1. --	_____	_____	_____	
2. --	_____	_____	_____	
Total Cover: _____				

SOIL

Sampling Point: **W02SW-9 SC-2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-10	10YR 4/2	95	10YR 5/4	5	RM	M	clay loam	Moist, friable
10-20	10YR 6/1	60	10YR 5/1	20	C	PL	clay loam	Moist, friable
			10YR 5/6	20	C	M		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils***:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soils Present? Yes _____ No **X** _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply):

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required):

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No **X** _____ Depth (inches): _____
 Water Table Present? Yes _____ No **X** _____ Depth (inches): _____
 Saturation Present? Yes _____ No **X** _____ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

Site: Inaugural South Suburban Airport
 Locale: BWCW02
 Date: April 24, 2009 1 hours
 October 8, 2008 1 hours
 By: AECOM:S.Johnson;T.Schultz; T.Radke; M Hildreth
 File: l:\work\103576\wp\Environmental\Wetland Delineation\Completed Field Forms\Revised
 Forms\W02\FQI\BWCW02.inv

FLORISTIC QUALITY DATA	Native	29	70.7%	Adventive	12	29.3%
29 NATIVE SPECIES	Tree	3	7.3%	Tree	2	4.9%
41 Total Species	Shrub	5	12.2%	Shrub	2	4.9%
2.4 NATIVE MEAN C	W-Vine	2	4.9%	W-Vine	0	0.0%
1.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
12.8 NATIVE FQI	P-Forb	9	22.0%	P-Forb	1	2.4%
10.8 W/Adventives	B-Forb	0	0.0%	B-Forb	2	4.9%
-1.7 NATIVE MEAN W	A-Forb	8	19.5%	A-Forb	1	2.4%
-0.6 W/Adventives	P-Grass	2	4.9%	P-Grass	1	2.4%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	3	7.3%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
AMAHYB	0 Amaranthus hybridus	5 UPL	Nt A-Forb	GREEN AMARANTH
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ASCSYR	0 Asclepias syriaca	5 UPL	Nt P-Forb	COMMON MILKWEED
ASTPUF	7 Aster puniceus firmus	-5 OBL	Nt P-Forb	SHINING ASTER
ASTSII	3 Aster simplex interior	-5 [OBL]	Nt P-Forb	MARSH ASTER
BARVUL	0 BARBAREA VULGARIS	0 FAC	Ad B-Forb	YELLOW ROCKET
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
CICMAC	6 Cicuta maculata	-5 OBL	Nt P-Forb	WATER HEMLOCK
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
GEULAT	2 Geum laciniatum trichocarpum	-3 FACW	Nt P-Forb	ROUGH AVENS
IRIVIS	5 Iris virginica shrevei	-5 OBL	Nt P-Forb	BLUE FLAG
LONTAT	0 LONICERA TATARICA	5 [UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
LONMUE	0 LONICERA X MUENDENIENSIS	5 UPL	Ad Shrub	COMMON FLY HONEYSUCKLE
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PILPUM	5 Pilea pumila	-3 FACW	Nt A-Forb	CLEARWEED
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLLAP	0 Polygonum lapathifolium	-4 FACW+	Nt A-Forb	HEARTSEASE
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED

PRUSER	1	<i>Prunus serotina</i>	3	FACU	Nt Tree	WILD BLACK CHERRY
PRUVIR	3	<i>Prunus virginiana</i>	3	[FACU]	Nt Shrub	CHOKE CHERRY
RHURAD	2	<i>Rhus radicans</i>	-1	FAC+	Nt W-Vine	POISON IVY
RUBOCC	2	<i>Rubus occidentalis</i>	5	UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0	<i>RUMEX CRISPUS</i>	-1	FAC+	Ad P-Forb	CURLY DOCK
SALDIS	2	<i>Salix discolor</i>	-3	FACW	Nt Shrub	PUSSY WILLOW
SALINT	1	<i>Salix interior</i>	-5	OBL	Nt Shrub	SANDBAR WILLOW
SECCER	0	<i>SECALE CEREALE</i>	5	UPL	Ad A-Grass	RYE
SETFAB	0	<i>SETARIA FABERI</i>	2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0	<i>SETARIA GLAUCA</i>	0	FAC	Ad A-Grass	YELLOW FOXTAIL
SPAPEC	4	<i>Spartina pectinata</i>	-4	FACW+	Nt P-Grass	PRAIRIE CORD GRASS
STATEH	5	<i>Stachys tenuifolia hispida</i>	-4	FACW+	Nt P-Forb	MARSH HEDGE NETTLE
ULMPUM	0	<i>ULMUS PUMILA</i>	5	UPL	Ad Tree	SIBERIAN ELM
VERHAS	4	<i>Verbena hastata</i>	-4	FACW+	Nt P-Forb	BLUE VERVAIN
VIOSOR	3	<i>Viola sororia</i>	1	FAC-	Nt P-Forb	COMMON BLUE VIOLET
VITRIP	2	<i>Vitis riparia</i>	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport	Date: 10/08/08
Applicant/Owner: Illinois Department of Transportation	County: Will
Investigator #1: Sarah Johnson #2: Tory Schultz	State: Illinois
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: Stream
Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Station ID: BWC-W02
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	Plot ID: S1

Remarks: **Black Walnut Creek.**
 Fresh spoil piles along the bank suggest a recent dredge event.

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Phalaris arundinacea</i>	FACW+	HERB	50		7. --	--	--	--
2. <i>Elymus virginicus</i>	FACW-	HERB	20		8. --	--	--	--
3. <i>Ambrosia trifida</i>	FAC+	HERB	15		9. --	--	--	--
4. <i>Aster simplex interior</i>	OBL	HERB	5		10. --	--	--	--
5. <i>Vitis riparia</i>	FACW-	HERB	5		11. --	--	--	--
6. <i>Polygonum hydropiper</i>	OBL	HERB	5		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **100%**

Remarks: **Hydrophytic vegetation is dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, Or Tide Gauge <input type="checkbox"/> Aerial Photos <input type="checkbox"/> Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: <input type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: 9 (in.) Depth to Saturated Soil: 7 (in.)	

Remarks: **Wetland hydrology is present.**

SOILS

Map Unit Name: Drummer silty clay loam, 0 to 2 percent slopes				Series Drainage Class: poorly drained			
Taxonomy (Subgroup): Typic Endoaquolls				Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Profile Description:							
Top	Bottom	Matrix Color	Mottle Colors	Mottle	Texture, moisture, consistency, organic material,		
Depth	Depth	(Munsell Moist):	(Munsell Moist):	Abundance/Contrast	and other soil characteristics.		
0	11	Ap	10YR 3/1	NA NA NA NA	silty clay loam, moist, friable		
11	24	A	10YR 3/2	NA NA NA NA	silty clay loam, moist, friable		

Hydric Soil Indicators ² : <input type="checkbox"/> (A1) Histosol <input type="checkbox"/> (A2) Histic Epipedon <input type="checkbox"/> (A3) Black Histic <input type="checkbox"/> (A4) Hydrogen Sulfide <input type="checkbox"/> (A5) Stratified Layers <input type="checkbox"/> (A10) 2 cm Muck <input type="checkbox"/> (A11) Depleted Below Dark Surface <input type="checkbox"/> (A12) Thick Dark Surface <input type="checkbox"/> (S1) Sandy Mucky Mineral <input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat	Indicators for Problematic Hydric Soils ¹ : <input type="checkbox"/> (S4) Sandy Gleyed Matrix <input type="checkbox"/> (S5) Sandy Redox <input type="checkbox"/> (S6) Stripped Matrix <input type="checkbox"/> (F1) Loamy Mucky Mineral <input type="checkbox"/> (F2) Loamy Gleyed Matrix <input type="checkbox"/> (F3) Depleted Matrix <input type="checkbox"/> (F6) Redox Dark Surface <input type="checkbox"/> (F7) Depleted Dark Surface <input type="checkbox"/> (F8) Redox Depressions <input type="checkbox"/> (A16) Coast Prairie Redox <input type="checkbox"/> (F12) Iron-Manganese Masses <input checked="" type="checkbox"/> Other (Explain in Remarks)
--	--

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are present. Floodplain adjacent to creek.**
 Sediment deposition and dredge activities obscure hydric indicators. Wetland vegetation and hydrology present.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Remarks: **This plot is located in a wetland.**

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport	Date: 10/08/08
Applicant/Owner: Illinois Department of Transportation	County: Will
Investigator #1: Sarah Johnson #2: Tory Schultz	State: Illinois
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: Upland
Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Station ID: BWC-W02
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	Plot ID: S2

Remarks: **Black Walnut Creek.**
Fresh spoil piles along the bank suggest a recent dredge event.

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Taraxacum officinale</i>	FACU	HERB	5	7. <i>Oxalis europaea</i>	FACU	HERB	5
2. <i>Echinochloa crusgalli</i>	FACW	HERB	10	8. --	--	--	--
3. <i>Ambrosia trifida</i>	FAC+	HERB	5	9. --	--	--	--
4. <i>Setaria faberi</i>	FACU+	HERB	25	10. --	--	--	--
5. <i>Rumex crispus</i>	FAC+	HERB	5	11. --	--	--	--
6. <i>Amaranthus retroflexus</i>	FACU+	HERB	10	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **33%**

Remarks: **Hydrophytic vegetation is not dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, Or Tide Gauge <input type="checkbox"/> Aerial Photos <input type="checkbox"/> Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is not present.**

SOILS

Map Unit Name: Drummer silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained									
Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
Profile Description:									
Top	Bottom		Matrix Color	Mottle Colors	Mottle	Texture, moisture, consistency, organic material,			
Depth	Depth	Horizon	(Munsell Moist):	(Munsell Moist):	Abundance/Contrast	and other soil characteristics.			
0	9	Ap	10YR	3/2					silty clay loam, moist, friable
9	18	A	10YR	3/1	10YR	6/8	few	prominent	silty clay, moist, friable
18	20	B	10YR	2/1	10YR	5/8	common	distinct	silty clay, moist, friable

Hydric Soil Indicators2:	Indicators for Problematic Hydric Soils1:
<input type="checkbox"/> (A1) Histosol <input type="checkbox"/> (A2) Histic Epipedon <input type="checkbox"/> (A3) Black Histic <input type="checkbox"/> (A4) Hydrogen Sulfide <input type="checkbox"/> (A5) Stratified Layers <input type="checkbox"/> (A10) 2 cm Muck <input type="checkbox"/> (A11) Depleted Below Dark Surface <input type="checkbox"/> (A12) Thick Dark Surface <input type="checkbox"/> (S1) Sandy Mucky Mineral <input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat	<input type="checkbox"/> (S4) Sandy Gleyed Matrix <input type="checkbox"/> (S5) Sandy Redox <input type="checkbox"/> (S6) Stripped Matrix <input type="checkbox"/> (F1) Loamy Mucky Mineral <input type="checkbox"/> (F2) Loamy Gleyed Matrix <input type="checkbox"/> (F3) Depleted Matrix <input type="checkbox"/> (F6) Redox Dark Surface <input type="checkbox"/> (F7) Depleted Dark Surface <input type="checkbox"/> (F8) Redox Depressions <input type="checkbox"/> (A16) Coast Prairie Redox <input type="checkbox"/> (F12) Iron-Manganese Masses <input type="checkbox"/> Other (Explain in Remarks) 1Indicators of hydrophytic vegetation and wetland hydrology must be present. 2Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are not present. This profile contains a dark matrix in the lower layers suggesting a buried horizon.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Remarks: **This plot is not located in wetland.**

Appendix E

Section Will 01

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
W01NE-1-S2	19	Yes	8.1	
W01NE-1U-S1	21	No		
W01NE-2-S1	20	Yes	0.0	
W01NE-2U-S2	20	No		
W01NE-4-S1	NA	NA	2.4	no soil core
W01NE-6-S1	20	Yes	1.9	
W01NE-6U-S2	20	Yes		
W01NE-6b-S1	NA	NA		no soil core
W01NE-7-S1	19	Yes	6.1	
W01NE-7U-S2	20	No		
UW01NE-8	20	No	NA	
W01NE-9-S1	20	Yes	10.4	
W01NE-9U-S2	20	No		
UW01NE-10	NA	NA	NA	Photo S
W01NW-2-S1	20	Yes	10.1	Photo NW & SE
W01NW-2U-S2	22	No		
W01NW-2-S3				
W01NW-3-S1	25	Yes	7.2	
W01NW-3U-S2	24	No		
W01NW-3U-S3	0			
UW01NW-4	7	No	NA	Photos SW & NE
UW01NW-5	NA	NA	NA	Photo E
W01NW-6a-S1	21	Yes	8.7	Photo N
W01NW-6aU-S2	22	No		
UW01NW-7	NA	NA	NA	Photo E
UW01NW-8	NA	NA	NA	Photo E
UW01NW-9	NA	NA	NA	Photo W
UW01NW-10	NA	NA	NA	Photo E & W
W01SE-1-S2	20	No	14.0	
W01SE-1U-S1	20	No		old field
W01SE-2a	NA	NA	20.3	FQI only
W01SE-2b	NA	NA	8.1	FQI only
W01SE-2-S2	20	Yes	NA	W01SE-2 soil points apply to wetlands a - h
W01SE-2U-S1	30	Yes		
W01SE-2c-S1	NA	NA	16.2	no soil core, FQI score is for c - h wetlands
W01SE-3-S1	22	Yes	16.0	
W01SE-3U-S2	22	No		
W01SE-4-S1	20	Yes	0.0	
W01SE-4U-S2	20	No		
W01SE-5-S2	20	Yes	4.2	
W01SE-5U-S1	22	No		
W01SE-6-S1	NA	NA	2.0	retention pond, no soil core

Appendix E

Section Will 01

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
W01SE-7-S1	20	Yes	10.3	
W01SE-7U-S2	20	No		
UW01SE-8	NA	NA	NA	Photo W
UW01SE-9	20	Yes	NA	Photo NW
W01SE-10-S2	20	No	1.7	tilled drainage
W01SE-10U-S1	20	Yes		ditch
UW01SE-11	NA	NA	NA	Photo NW
UW01SE-12	20	No	NA	
W01SE-13-S1	21	Yes	11.1	
W01SE-13U-S2	21	Yes		
W01SE-14-S2	21	Yes	16.2	
W01SE-14U-S1	20	No		
W01SW-1U-S1	21	Yes	10.3	
W01SW-1-S2	22	Yes		Photo W
W01SW-1U-S3	22	Yes		
W01SW-1-S4	20	Yes		Photo E
W01SW-1U-S5	NA	NA		no soil core
W01SW-4a-S1	20	Yes	10.6	
W01SW-4aU-S2	20	No		
W01SW-4a-S3	22	Yes		
W01SW-4a-S4	20	Yes		
W01SW-4aU-S5	20	No		
W01SW-4aU-S6	20	No		
W01SW-4a-S7	20	Yes		
W01SW-4b-S1	20	No	4.6	
W01SW-4bU-S2	20	Yes		
UW01SW-4c	20	Yes	NA	Photo NW
UW01SW-5	NA	NA	NA	Photo S
UW01SW-6	NA	NA	NA	Photo E
UW01SW-7	NA	NA	NA	Photo SE
W01SW-8-S2	21	Yes	2.0	
W01SW-8U-S1	20	Yes		
UW01SW-9	NA	NA	NA	Photo N
W01SW-10-S1	19	Yes	2.5	Photo E
W01SW-10U-S2	19	No		
UW01SW-11	NA	NA	NA	Photo NE
UW01SW-12	NA	NA	NA	Photo NE

NA = not applicable

Site: Inaugural South Suburban Airport
 Locale: W01NE1
 Date: September 29, 2008 1 hours
 By: AECOM; T.Radke; R. West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NE1.inv
 Notes: Includes W01NE1 & NE1b

FLORISTIC QUALITY DATA	Native	21	67.7%	Adventive	10	32.3%
21 NATIVE SPECIES	Tree	2	6.5%	Tree	1	3.2%
31 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
1.8 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.2 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
8.1 NATIVE FQI	P-Forb	7	22.6%	P-Forb	3	9.7%
6.6 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.9 NATIVE MEAN W	A-Forb	7	22.6%	A-Forb	2	6.5%
-0.9 W/Adventives	P-Grass	0	0.0%	P-Grass	1	3.2%
AVG: Fac. Wetland (-)	A-Grass	2	6.5%	A-Grass	3	9.7%
	P-Sedge	2	6.5%	P-Sedge	0	0.0%
	A-Sedge	1	3.2%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
ACARHO	0 Acalypha rhomboidea	3 FACU	Nt A-Forb	THREE-SEEDED MERCURY
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
ALISUB	4 Alisma subcordatum	-5 OBL	Nt P-Forb	COMMON WATER PLANTAIN
AMAHYB	0 Amaranthus hybridus	5 UPL	Nt A-Forb	GREEN AMARANTH
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
CYPESC	0 Cyperus esculentus	-1 [FAC+]	Nt P-Sedge	FIELD NUT SEDGE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
ELEOBT	3 Eleocharis obtusa	-5 OBL	Nt A-Sedge	BLUNT SPIKE RUSH
ERIPHI	4 Erigeron philadelphicus	-3 FACW	Nt P-Forb	MARSH FLEABANE
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi	0 [FAC]	Nt P-Forb	DUDLEY'S RUSH
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PLARUG	0 Plantago rugelii	0 FAC	Nt A-Forb	RED-STALKED PLANTAIN
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	0 Prunella vulgaris lanceolata	3 [FACU]	Nt P-Forb	SELF HEAL
RANABO	0 Ranunculus abortivus	-2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
RUMVER	6 Rumex verticillatus	-5 OBL	Nt P-Forb	SWAMP DOCK
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL

SETGLA	0	SETARIA GLAUCA	0	FAC	Ad	A-Grass	YELLOW FOXTAIL
TAROFF	0	TARAXACUM OFFICINALE	3	FACU	Ad	P-Forb	COMMON DANDELION
TRIREF	0	TRIFOLIUM REPENS	2	FACU+	Ad	P-Forb	WHITE CLOVER
TYPANG	1	Typha angustifolia	-5	OBL	Nt	P-Forb	NARROW-LEAVED CATTAIL
ZEAMAY	0	ZEAMAYS	5	UPL	Ad	A-Grass	CORN

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																				
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 09/29/08 County: Will State: Illinois Community ID: PFO/PEM Station ID: W01NE-1 Plot ID: SC-2																																																														
Do Normal Circumstances Exist On The Site? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is The Site Significantly Disturbed (Atypical Situation)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Is The Area A Potential Problem Area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, define below.)						Remarks: Tiled/excavated stream corridor remaining north of new runway. Wooded cover recently removed in part. Part mowed.																																																														
VEGETATION Dominant Species (50/20 Rule) <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 45%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 25%;"></th> <th style="width: 45%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr> <td>1. <i>Echinochloa crusgalli</i></td> <td>FACW</td> <td>HERB</td> <td>95</td> <td></td> <td>7. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>2. <i>Typha angustifolia</i></td> <td>OBL</td> <td>HERB</td> <td>2</td> <td></td> <td>8. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>3. <i>Polygonum hydropiper</i></td> <td>OBL</td> <td>HERB</td> <td>2</td> <td></td> <td>9. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>4. --</td> <td>--</td> <td>--</td> <td>--</td> <td></td> <td>10. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>5. --</td> <td>--</td> <td>--</td> <td>--</td> <td></td> <td>11. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>6. --</td> <td>--</td> <td>--</td> <td>--</td> <td></td> <td>12. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover	1. <i>Echinochloa crusgalli</i>	FACW	HERB	95		7. --	--	--	--	2. <i>Typha angustifolia</i>	OBL	HERB	2		8. --	--	--	--	3. <i>Polygonum hydropiper</i>	OBL	HERB	2		9. --	--	--	--	4. --	--	--	--		10. --	--	--	--	5. --	--	--	--		11. --	--	--	--	6. --	--	--	--	
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Remarks: Drainageway starting in farmfield north; partly tiled/excavated/mowed; new culvert under new runway on south.																																																																																						
VEGETATION																																																																																						
Dominant Species (50/20 Rule)																																																																																						
<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;"></th> <th style="width:20%;"><u>Species Name</u></th> <th style="width:10%;"><u>Ind.Status</u></th> <th style="width:10%;"><u>Stratum</u></th> <th style="width:10%;"><u>% Cover</u></th> <th style="width:10%;"></th> <th style="width:10%;"></th> <th style="width:20%;"><u>Species Name</u></th> <th style="width:10%;"><u>Ind. Status</u></th> <th style="width:10%;"><u>Stratum</u></th> <th style="width:10%;"><u>% Cover</u></th> </tr> </thead> <tbody> <tr> <td>1.</td> <td><i>Trifolium repens</i></td> <td>FACU+</td> <td>HERB</td> <td>20</td> <td></td> <td></td> <td>7.</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>2.</td> <td><i>Setaria viridis</i></td> <td>FAC-</td> <td>HERB</td> <td>20</td> <td></td> <td></td> <td>8.</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>3.</td> <td><i>Trifolium pratense</i></td> <td>FACU+</td> <td>HERB</td> <td>20</td> <td></td> <td></td> <td>9.</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>4.</td> <td><i>Digitaria ischaemum</i></td> <td>FACU</td> <td>HERB</td> <td>20</td> <td></td> <td></td> <td>10.</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>5.</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td></td> <td></td> <td>11.</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>6.</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td></td> <td></td> <td>12.</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>											<u>Species Name</u>	<u>Ind.Status</u>	<u>Stratum</u>	<u>% Cover</u>			<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>	1.	<i>Trifolium repens</i>	FACU+	HERB	20			7.	--	--	--	2.	<i>Setaria viridis</i>	FAC-	HERB	20			8.	--	--	--	3.	<i>Trifolium pratense</i>	FACU+	HERB	20			9.	--	--	--	4.	<i>Digitaria ischaemum</i>	FACU	HERB	20			10.	--	--	--	5.	--	--	--	--			11.	--	--	--	6.	--	--	--	--			12.	--	--	--
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5.	--	--	--	--			11.	--	--	--																																																																												
6.	--	--	--	--			12.	--	--	--																																																																												
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0 Remarks: Hydrophytic vegetation is not dominant. Area mowed. Some species ID required comparison to flowering specimens at unmown edges. Identified dominant species totaled 80% cover w/no wetland species. Unidentified grasses/forbs = 40% of vegetative cover. <i>Poa pratense</i> was suspected but not ID'd.																																																																																						
HYDROLOGY																																																																																						
X Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge X Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: X None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)																																																																																	
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Remarks: Wetland hydrology is not present.																																																																																						
SOILS																																																																																						
Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? _____ Yes _____ X No																																																																																						
Profile Description: <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:5%;">Top</th> <th style="width:5%;">Bottom</th> <th style="width:10%;">Horizon</th> <th style="width:10%;">Matrix Color (Munsell Moist):</th> <th style="width:10%;">Mottle Colors (Munsell Moist):</th> <th style="width:10%;">Mottle Abundance/Contrast</th> <th style="width:50%;">Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>8</td> <td>A</td> <td>10YR 3/2</td> <td>NA NA</td> <td>NA NA</td> <td>Silty loam; moist, friable</td> </tr> <tr> <td>8</td> <td>21</td> <td>B</td> <td>10YR 4/2</td> <td>10YR 5/6</td> <td>common distinct</td> <td>Silty loam; moist, friable, sandstone fragments</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	0	8	A	10YR 3/2	NA NA	NA NA	Silty loam; moist, friable	8	21	B	10YR 4/2	10YR 5/6	common distinct	Silty loam; moist, friable, sandstone fragments																																																								
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Remarks: This plot is not located in wetland.																																																																																						

Site: SSA Inaugural Delineation
 Locale: W01NE2
 Date: September 29, 2008 30 minutes
 By: AECOM: T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NE2.inv

FLORISTIC QUALITY DATA	Native	0	0.0%	Adventive	1	100.0%
0 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
1 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	1	100.0%
5.0 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
GLYNMX	0	GLYCINE MAX	5	UPL	Ad A-Forb	SOY BEAN

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																			
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 09/29/08 County: Will State: Illinois Community ID: FW Station ID: W01NE-2 Plot ID: SC-1																																													
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: This area is a cropped field.																																													
VEGETATION																																																			
Dominant Species (50/20 Rule)																																																			
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1.	<i>Glycine max</i>	UPL	HERB	50		7.	--	--	--	--																																									
2.	--	--	--	--		8.	--	--	--	--																																									
3.	--	--	--	--		9.	--	--	--	--																																									
4.	--	--	--	--		10.	--	--	--	--																																									
5.	--	--	--	--		11.	--	--	--	--																																									
6.	--	--	--	--		12.	--	--	--	--																																									
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0%																																																			
Remarks: Hydrophytic vegetation is not dominant. Normal circumstances not present. Soybeans stressed, sparse and covered with sediment.																																																			
HYDROLOGY																																																			
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos <input type="checkbox"/> NRCS Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines <input checked="" type="checkbox"/> Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data _____ FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)																																														
Field Observations: Depth of Surface Water: _____ NA (in.) Depth to Free Water: _____ NA (in.) Depth to Saturated Soil: _____ NA (in.)					Remarks: Wetland hydrology is present. Evidence of ponding																																														
SOILS																																																			
Map Unit Name: Peotone silty clay loam Series Drainage Class: Very poorly drained Taxonomy (Subgroup): Cumulic Vertic Endoaquoll Field Observations Confirm Mapped Type? _____ X Yes _____ No																																																			
Profile Description: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Top Depth</th> <th style="width: 5%;">Bottom Depth</th> <th style="width: 10%;">Horizon</th> <th style="width: 10%;">Matrix Color (Munsell Moist):</th> <th style="width: 10%;">Mottle Colors (Munsell Moist):</th> <th style="width: 10%;">Mottle Abundance/Contrast</th> <th style="width: 50%;">Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>8</td> <td>Ap</td> <td>2.5 N</td> <td>NA NA</td> <td>NA NA</td> <td>Silty clay loam; moist, friable</td> </tr> <tr> <td>8</td> <td>15</td> <td>A2</td> <td>2.5 N</td> <td>NA NA</td> <td>NA NA</td> <td>Silty clay; moist, firm</td> </tr> <tr> <td>15</td> <td>20</td> <td>B</td> <td>2.5 N</td> <td>10YR 4/1</td> <td>common faint</td> <td>Silty clay; moist, firm</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>										Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	0	8	Ap	2.5 N	NA NA	NA NA	Silty clay loam; moist, friable	8	15	A2	2.5 N	NA NA	NA NA	Silty clay; moist, firm	15	20	B	2.5 N	10YR 4/1	common faint	Silty clay; moist, firm														
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WETLAND DETERMINATION																																																			
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Remarks: This plot is located in a wetland. Normal circumstances not present: vegetation parameter is altered.																																																			

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)									
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. West						Date: 09/29/08 County: Will State: Illinois Community ID: Upland Station ID: W01NE-2 Plot ID: S2			
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)									
Remarks: This area is a cropped field.									
VEGETATION									
Dominant Species (50/20 Rule)									
<u>Species Name</u> <u>Ind.Status</u> <u>Stratum</u> <u>% Cover</u>				<u>Species Name</u> <u>Ind. Status</u> <u>Stratum</u> <u>% Cover</u>					
1. <i>Glycine max</i> UPL HERB 100				7. -- -- -- --					
2. -- -- -- --				8. -- -- -- --					
3. -- -- -- --				9. -- -- -- --					
4. -- -- -- --				10. -- -- -- --					
5. -- -- -- --				11. -- -- -- --					
6. -- -- -- --				12. -- -- -- --					
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0%									
Remarks: Hydrophytic vegetation is not dominant. Soybean crop is not stressed.									
HYDROLOGY									
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input type="checkbox"/> Oxidized Root Channels In Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)				
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)									
Remarks: Wetland hydrology is not present. Soil core is on a rise in the soybean field.									
SOILS									
Map Unit Name: Beecher silt loam					Series Drainage Class: Somewhat poorly drained				
Taxonomy (Subgroup): Udolic Epiaqualfs					Field Observations Confirm Mapped Type? _____ X Yes _____ No				
Profile Description:									
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.			
0	8	A	10YR 3/1	NA NA	NA NA	Silty loam; moist, friable			
8	20	B	2.5YR 6/2	10YR 5/6 10YR 3/1	common few distinct prominent	Silty clay; moist, firm			
Hydric Soil Indicators ² :									
_____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat					_____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions				
Indicators for Problematic Hydric Soils ¹ : _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)									
¹ Indicators of hydrophytic vegetation and wetland hydrology must be present.									
² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)									
Remarks: Hydric soils are not present.									
WETLAND DETERMINATION									
Hydrophytic Vegetation Present? _____ Yes _____ X No					Hydric Soils Present? _____ Yes _____ X No				
Wetland Hydrology Present? _____ Yes _____ X No					Is This Sampling Point Within A Wetland? _____ Yes _____ X No				
Remarks: This plot is not located in wetland.									

Site: SSA Inaugural Delineation
Locale: W01NE4
Date: October 1, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NE4.inv

FLORISTIC QUALITY DATA		Native	6	66.7%	Adventive	3	33.3%
6	NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
9	Total Species	Shrub	0	0.0%	Shrub	0	0.0%
1.0	NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.7	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
2.4	NATIVE FQI	P-Forb	0	0.0%	P-Forb	1	11.1%
2.0	W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.2	NATIVE MEAN W	A-Forb	4	44.4%	A-Forb	0	0.0%
-1.3	W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Fac. Wetland (-)		A-Grass	2	22.2%	A-Grass	2	22.2%
		P-Sedge	0	0.0%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
AMBARE	0	Ambrosia artemisiifolia elatior	3	FACU	Nt A-Forb	COMMON RAGWEED
ECHCRU	0	Echinochloa crusgalli	-3	FACW	Nt A-Grass	BARNYARD GRASS
PANDII	0	Panicum dichotomiflorum	-2	FACW-	Nt A-Grass	KNEE GRASS
POLPEN	0	Polygonum pensylvanicum	-4	FACW+	Nt A-Forb	PINKWEED
POLPUN	6	Polygonum punctatum	-5	OBL	Nt A-Forb	SMARTWEED
RANABO	0	Ranunculus abortivus	-2	FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RUMCRI	0	RUMEX CRISPUS	-1	FAC+	Ad P-Forb	CURLY DOCK
SETFAB	0	SETARIA FABERI	2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0	SETARIA GLAUCA	0	FAC	Ad A-Grass	YELLOW FOXTAIL

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																													
Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 10/01/08 County: Will State: Illinois Community ID: PEM Station ID: W01NE-4 Plot ID: NA																																																							
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Channel and adjacent farmed wetland dominated by Barnyard grass/Yellow Foxtail and smartweed. No soil core taken. Delineated via topography and vegetation. Channel has been reworked as result of runway construction to the south.																																																							
VEGETATION Dominant Species (50/20 Rule) <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr> <td>1. <i>Echinochloa crusgalli</i></td> <td>FACW</td> <td>HERB</td> <td>50</td> <td>7. <i>Panicum dichotomiflorum</i></td> <td>FACW-</td> <td>HERB</td> <td>1</td> </tr> <tr> <td>2. <i>Setaria glauca</i></td> <td>FAC</td> <td>HERB</td> <td>5</td> <td>8. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>3. <i>Setaria faberi</i></td> <td>FACU+</td> <td>HERB</td> <td>5</td> <td>9. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>4. <i>Rumex crispus</i></td> <td>UPL</td> <td>HERB</td> <td>5</td> <td>10. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>5. <i>Polygonum pensylvanicum</i></td> <td>FACW+</td> <td>HERB</td> <td>50</td> <td>11. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>6. <i>Ranunculus abortivus</i></td> <td>FACW-</td> <td>HERB</td> <td>5</td> <td>12. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover	1. <i>Echinochloa crusgalli</i>	FACW	HERB	50	7. <i>Panicum dichotomiflorum</i>	FACW-	HERB	1	2. <i>Setaria glauca</i>	FAC	HERB	5	8. --	--	--	--	3. <i>Setaria faberi</i>	FACU+	HERB	5	9. --	--	--	--	4. <i>Rumex crispus</i>	UPL	HERB	5	10. --	--	--	--	5. <i>Polygonum pensylvanicum</i>	FACW+	HERB	50	11. --	--	--	--	6. <i>Ranunculus abortivus</i>	FACW-	HERB	5
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. Weedy ag wetland species						HYDROLOGY <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.) </div> <div style="width: 50%;"> Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks) </div> </div>																																																							
Remarks: Wetland hydrology is present. NRCS ID and stunted crops.																																																													
SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? no soil core * Yes _____ No _____																																																													
Profile Description: <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.7em;"> <thead> <tr> <th style="width: 5%;">Top</th> <th style="width: 5%;">Bottom</th> <th style="width: 10%;">Horizon</th> <th style="width: 10%;">Matrix Color (Munsell Moist):</th> <th style="width: 10%;">Mottle Colors (Munsell Moist):</th> <th style="width: 10%;">Mottle Abundance/Contrast</th> <th style="width: 50%;">Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.																																													
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Remarks: *Hydric soils are mapped. Channel just north of runway graded from runway construction. Now eroded and bare. Hydrophytic vegetation and wetland hydrology present along length of channel area.						² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																							
WETLAND DETERMINATION Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																													
Remarks: This plot is located in a wetland. *Hydric soil mapped. Soil core not taken. Channel has been reworked as a result of runway construction. Channel is bare and eroded in part.																																																													

Site: SSA Inaugural Delineation
 Locale: W01NE6
 Date: September 29, 2008 1 hours
 By: AECOM: T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NE6.inv
 Notes: FQI includes W01NE6a and 6b

FLORISTIC QUALITY DATA		Native	7	63.6%	Adventive	4	36.4%
7	NATIVE SPECIES	Tree	1	9.1%	Tree	0	0.0%
11	Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.7	NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.5	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
1.9	NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
1.5	W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.3	NATIVE MEAN W	A-Forb	3	27.3%	A-Forb	1	9.1%
-1.0	W/Adventives	P-Grass	1	9.1%	P-Grass	1	9.1%
AVG:	Fac. Wetland (-)	A-Grass	2	18.2%	A-Grass	2	18.2%
		P-Sedge	0	0.0%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0	Acer saccharinum	-3	FACW	Nt Tree	SILVER MAPLE
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
BIDFRO	1	Bidens frondosa	-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CHEALB	0	CHENOPODIUM ALBUM	1	FAC-	Ad A-Forb	LAMB'S QUARTERS
ECHCRU	0	Echinochloa crusgalli	-3	FACW	Nt A-Grass	BARNYARD GRASS
ELYVIR	4	Elymus virginicus	-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
PANDII	0	Panicum dichotomiflorum	-2	FACW-	Nt A-Grass	KNEE GRASS
RANABO	0	Ranunculus abortivus	-2	FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
SETFAB	0	SETARIA FABERI	2	FACU+	Ad A-Grass	GIANT FOXTAIL
ZEAMAY	0	ZEA MAYS	5	UPL	Ad A-Grass	CORN

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																																									
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 09/29/08 County: Will State: Illinois Community ID: PEM Station ID: W01NE-6 Plot ID: S1																																																																																			
Do Normal Circumstances Exist On The Site? _____ Yes _____ <input checked="" type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? _____ <input checked="" type="checkbox"/> Yes _____ No Is The Area A Potential Problem Area? _____ Yes _____ <input checked="" type="checkbox"/> No (If yes, define below.)																																																																																									
Remarks: Cropped field with tiled drainage. Soil core next to hedgerow with swale crossing to next field to south.																																																																																									
VEGETATION																																																																																									
Dominant Species (50/20 Rule)																																																																																									
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant in depression in corn field.																																																																																									
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<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos <input checked="" type="checkbox"/> Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines <input checked="" type="checkbox"/> Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)																																																																																				
Field Observations: Depth of Surface Water: _____ NA (in.) Depth to Free Water: _____ NA (in.) Depth to Saturated Soil: _____ NA (in.)																																																																																									
Remarks: Wetland hydrology is present. Evidence of ponding in depression in cornfield. NRCS review																																																																																									
SOILS																																																																																									
Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? _____ <input checked="" type="checkbox"/> Yes _____ No																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Profile Description:</th> <th colspan="2">Matrix Color</th> <th colspan="2">Mottle Colors</th> <th colspan="2">Mottle</th> <th colspan="2">Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> <tr> <th>Top</th> <th>Bottom</th> <th colspan="2">(Munsell Moist):</th> <th colspan="2">(Munsell Moist):</th> <th colspan="2">Abundance/Contrast</th> <th colspan="2"></th> </tr> <tr> <th>Depth</th> <th>Depth</th> <th>Horizon</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>20</td> <td>A</td> <td>10YR</td> <td>3/1</td> <td>10YR</td> <td>4/3</td> <td>common</td> <td>faint</td> <td>Silty loam; moist, friable</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										Profile Description:		Matrix Color		Mottle Colors		Mottle		Texture, moisture, consistency, organic material, and other soil characteristics.		Top	Bottom	(Munsell Moist):		(Munsell Moist):		Abundance/Contrast				Depth	Depth	Horizon								0	20	A	10YR	3/1	10YR	4/3	common	faint	Silty loam; moist, friable																																								
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WETLAND DETERMINATION																																																																																									
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Remarks: This plot is located in a wetland.																																																																																									

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)									
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. West						Date: 09/29/08 County: Will State: Illinois Community ID: Upland Station ID: W01NE-6 Plot ID: S2			
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)									
Remarks: Corn field									
VEGETATION									
Dominant Species (50/20 Rule)									
<u>Species Name</u> <u>Ind.Status</u> <u>Stratum</u> <u>% Cover</u>				<u>Species Name</u> <u>Ind. Status</u> <u>Stratum</u> <u>% Cover</u>					
1. Zea mays UPL HERB 70				7. -- -- -- --					
2. <i>Ranunculus abortivus</i> FACW- HERB 10				8. -- -- -- --					
3. -- -- -- --				9. -- -- -- --					
4. -- -- -- --				10. -- -- -- --					
5. -- -- -- --				11. -- -- -- --					
6. -- -- -- --				12. -- -- -- --					
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0%									
Remarks: Hydrophytic vegetation is not dominant.									
HYDROLOGY									
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)				
Field Observations: Depth of Surface Water: _____ NA (in.) Depth to Free Water: _____ NA (in.) Depth to Saturated Soil: _____ NA (in.)									
Remarks: Wetland hydrology is not present. NRCS Review									
SOILS									
Map Unit Name: Beecher silt loam				Series Drainage Class: Somewhat poorly drained					
Taxonomy (Subgroup): Udolic Epiaqualfs				Field Observations Confirm Mapped Type? _____ X Yes _____ No					
Profile Description:									
Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.			
0	8	Ap	10YR 3/2	NA NA	NA NA	Silty clay loam; moist, friable,some gravel			
8	12	A2	10YR 3/2	10YR 6/6	common prominent	Silty clay loam; moist, friable			
12	20	A3	10YR 2/1	NA NA	NA NA	Silty loam; moist, friable; sandstone fragmentst			
Hydric Soil Indicators ² :						Indicators for Problematic Hydric Soils ¹ :			
_____ (A1) Histosol			_____ (S4) Sandy Gleyed Matrix			_____ (A16) Coast Prairie Redox			
_____ (A2) Histic Epipedon			_____ (S5) Sandy Redox			_____ (F12) Iron-Manganese Masses			
_____ (A3) Black Histic			_____ (S6) Stripped Matrix			_____ Other (Explain in Remarks)			
_____ (A4) Hydrogen Sulfide			_____ (F1) Loamy Mucky Mineral			¹ Indicators of hydrophytic vegetation and wetland hydrology must be present.			
_____ (A5) Stratified Layers			_____ (F2) Loamy Gleyed Matrix						
_____ (A10) 2 cm Muck			_____ (F3) Depleted Matrix						
_____ (A11) Depleted Below Dark Surface			_____ (F6) Redox Dark Surface						
_____ (A12) Thick Dark Surface			_____ (F7) Depleted Dark Surface						
_____ (S1) Sandy Mucky Mineral			_____ (F8) Redox Depressions			² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)			
_____ (S3) 5 cm Mucky Peat or Peat									
Remarks: Hydric soils are not present.									
WETLAND DETERMINATION									
Hydrophytic Vegetation Present? _____ Yes _____ X No					Hydric Soils Present? _____ Yes _____ X No				
Wetland Hydrology Present? _____ Yes _____ X No					Is This Sampling Point Within A Wetland? _____ Yes _____ X No				
Remarks: This plot is not located in wetland.									

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																													
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 10/02/08 County: Will State: Illinois Community ID: PEM/FW Station ID: W01NE-6b Plot ID: NA																																																							
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Part of same tiled drainagway as W01NE-6a. Uncultivated area in corn field. No soil core taken																																																							
VEGETATION Dominant Species (50/20 Rule) <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr> <td>1. <i>Echinochloa crusgalli</i></td> <td>FACW</td> <td>HERB</td> <td>20</td> <td>7. <i>Chenopodium album</i></td> <td>FAC-</td> <td>HERB</td> <td>1</td> </tr> <tr> <td>2. <i>Bidens frondosa</i></td> <td>FACW</td> <td>HERB</td> <td>30</td> <td>8. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>3. <i>Ambrosia trifida</i></td> <td>FAC+</td> <td>HERB</td> <td>20</td> <td>9. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>4. <i>Agrostis alba</i></td> <td>UPL</td> <td>HERB</td> <td>30</td> <td>10. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>5. <i>Elymus virginicus</i></td> <td>FACW-</td> <td>HERB</td> <td>5</td> <td>11. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>6. <i>Acer saccharinum</i></td> <td>FACW</td> <td>TREE</td> <td>5</td> <td>12. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover	1. <i>Echinochloa crusgalli</i>	FACW	HERB	20	7. <i>Chenopodium album</i>	FAC-	HERB	1	2. <i>Bidens frondosa</i>	FACW	HERB	30	8. --	--	--	--	3. <i>Ambrosia trifida</i>	FAC+	HERB	20	9. --	--	--	--	4. <i>Agrostis alba</i>	UPL	HERB	30	10. --	--	--	--	5. <i>Elymus virginicus</i>	FACW-	HERB	5	11. --	--	--	--	6. <i>Acer saccharinum</i>	FACW	TREE	5
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 75% Remarks: Hydrophytic vegetation is dominant.						HYDROLOGY <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available </div> <div style="width: 50%;"> Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data _____ FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks) </div> </div>																																																							
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SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? No soil core <input type="checkbox"/> * Yes <input type="checkbox"/> No																																																													
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WETLAND DETERMINATION <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <tr> <td style="width: 40%;">Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> <td style="width: 20%;">Hydric Soils Present? <input type="checkbox"/> * Yes <input type="checkbox"/> No</td> </tr> <tr> <td>Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> <td>Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> </table>										Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hydric Soils Present? <input type="checkbox"/> * Yes <input type="checkbox"/> No	Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																
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Remarks: This plot is located in a wetland. *Soil mapped hydric. Area located in same soil unit as W01NE-6a, in same landscape position, and with similar vegetation.																																																													

Site: SSA Inaugural Delineation
Locale: W01NE7
Date: September 29, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NE7.inv

FLORISTIC QUALITY DATA	Native	12	75.0%	Adventive	4	25.0%
12 NATIVE SPECIES	Tree	1	6.3%	Tree	0	0.0%
16 Total Species	Shrub	1	6.3%	Shrub	0	0.0%
1.8 NATIVE MEAN C	W-Vine	2	12.5%	W-Vine	0	0.0%
1.3 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.1 NATIVE FQI	P-Forb	5	31.3%	P-Forb	0	0.0%
5.3 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.4 NATIVE MEAN W	A-Forb	2	12.5%	A-Forb	0	0.0%
-0.8 W/Adventives	P-Grass	0	0.0%	P-Grass	3	18.8%
AVG: Faculative (+)	A-Grass	1	6.3%	A-Grass	1	6.3%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0	Acer saccharinum	-3	FACW	Nt Tree	SILVER MAPLE
AGRREP	0	AGROPYRON REPENS	3	FACU	Ad P-Grass	QUACK GRASS
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1	Bidens frondosa	-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CORSTO	6	Cornus stolonifera	-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
ECHCRU	0	Echinochloa crusgalli	-3	FACW	Nt A-Grass	BARNYARD GRASS
FESELA	0	FESTUCA ELATIOR	2	FACU+	Ad P-Grass	TALL FESCUE
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4	Juncus dudleyi	0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
PRUVLA	0	Prunella vulgaris lanceolata	3	[FACU]	Nt P-Forb	SELF HEAL
RHURAD	2	Rhus radicans	-1	FAC+	Nt W-Vine	POISON IVY
SETFAB	0	SETARIA FABERI	2	FACU+	Ad A-Grass	GIANT FOXTAIL
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD
VITRIP	2	Vitis riparia	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R.West						Date: 09/29/08 County: Will State: Illinois Community ID: PEM Station ID: W01NE-7 Plot ID: S1																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Tiled drainageway																																																																		
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SOILS																																																																								
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DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)										
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R.West						Date: 09/29/08 County: Will State: Illinois Community ID: Upland Station ID: W01NE-7 Plot ID: S2				
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: The area is a cropped field.				
VEGETATION										
Dominant Species (50/20 Rule)										
	<u>Species Name</u>	<u>Ind.Status</u>	<u>Stratum</u>	<u>% Cover</u>			<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>
1.	Zea mays	UPL	HERB	100%		7.	--	--	--	--
2.	--	--	--	--		8.	--	--	--	--
3.	--	--	--	--		9.	--	--	--	--
4.	--	--	--	--		10.	--	--	--	--
5.	--	--	--	--		11.	--	--	--	--
6.	--	--	--	--		12.	--	--	--	--
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-):						0%				
Remarks: Hydrophytic vegetation is not dominant.										
HYDROLOGY										
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)					
Field Observations: Depth of Surface Water: _____ NA (in.) Depth to Free Water: _____ NA (in.) Depth to Saturated Soil: _____ NA (in.)					Remarks: Wetland hydrology is not present.					
SOILS										
Map Unit Name: Ashkum silty clay loam					Series Drainage Class: Poorly drained					
Taxonomy (Subgroup): Typic Haplaquoll					Field Observations Confirm Mapped Type? _____ Yes _____ X No					
Profile Description:										
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.				
Depth	Depth									
0	4	A	10YR 3/2	NA NA	NA NA	Moist, friable silty loam				
4	8	A2	10YR 4.5/1	NA NA	NA NA	Moist, friable silty clay loam				
8	13	B1	10YR 4.5/1	10YR 4/4	common distinct	Moist, firm silty clay				
13	20	B2	10YR 6/1	10YR 4/4	common distinct	Moist, firm silty clay				
Hydric Soil Indicators ² :						Indicators for Problematic Hydric Soils ¹ :				
_____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck <input checked="" type="checkbox"/> (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat			_____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions			_____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)				
Remarks: Hydric soils are present. Profile does not match Ashkum, but excavation and erosion are factors						¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)				
WETLAND DETERMINATION										
Hydrophytic Vegetation Present? _____ Yes _____ X No					Hydric Soils Present? _____ X Yes _____ No					
Wetland Hydrology Present? _____ Yes _____ X No					Is This Sampling Point Within A Wetland? _____ Yes _____ X No					
Remarks: This plot is not located in a wetland.										

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
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Remarks: This plot is not located in wetland. *Vegetation parameter is altered by cultivation.																																																																	

Site: SSA Inaugural Delineation
Locale: W01NE9
Date: September 30, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NE9.inv
Notes: FQI includes W01NE9a-d

FLORISTIC QUALITY DATA		Native	23	76.7%	Adventive	7	23.3%
23	NATIVE SPECIES	Tree	3	10.0%	Tree	0	0.0%
30	Total Species	Shrub	4	13.3%	Shrub	0	0.0%
2.2	NATIVE MEAN C	W-Vine	2	6.7%	W-Vine	0	0.0%
1.7	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
10.4	NATIVE FQI	P-Forb	7	23.3%	P-Forb	2	6.7%
9.1	W/Adventives	B-Forb	0	0.0%	B-Forb	1	3.3%
-2.4	NATIVE MEAN W	A-Forb	4	13.3%	A-Forb	2	6.7%
-1.4	W/Adventives	P-Grass	0	0.0%	P-Grass	1	3.3%
AVG:	Fac. Wetland (-)	A-Grass	2	6.7%	A-Grass	1	3.3%
		P-Sedge	1	3.3%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0	ABUTILON THEOPHRASTII	4	FACU-	Ad A-Forb	VELVETLEAF
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOSIB	2	Apocynum sibiricum	-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1	Bidens frondosa	-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CIRARV	0	CIRSIUM ARVENSE	5	UPL	Ad P-Forb	FIELD THISTLE
CORSTO	6	Cornus stolonifera	-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
CYPESC	0	Cyperus esculentus	-1	[FAC+]	Nt P-Sedge	FIELD NUT SEDGE
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0	Echinochloa crusgalli	-3	FACW	Nt A-Grass	BARNYARD GRASS
EPICOL	3	Epilobium coloratum	-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
GEULAT	2	Geum laciniatum trichocarpum	-3	FACW	Nt P-Forb	ROUGH AVENS
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PANDII	0	Panicum dichotomiflorum	-2	FACW-	Nt A-Grass	KNEE GRASS
PENSED	5	Penthorum sedoides	-5	OBL	Nt P-Forb	DITCH STONECROP
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad P-Grass	REED CANARY GRASS
POLPEN	0	Polygonum pensylvanicum	-4	FACW+	Nt A-Forb	PINKWEED
POLPER	0	POLYGONUM PERSICARIA	1	[FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2	Populus deltoides	-1	FAC+	Nt Tree	EASTERN COTTONWOOD
RHURAD	2	Rhus radicans	-1	FAC+	Nt W-Vine	POISON IVY
RORPAF	4	Rorippa palustris fernaldiana	-5	OBL	Nt A-Forb	MARSH CRESS
RUBALL	3	Rubus allegheniensis	2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2	Rubus occidentalis	5	UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0	RUMEX CRISPUS	-1	FAC+	Ad P-Forb	CURLY DOCK
SALAMY	5	Salix amygdaloides	-3	FACW	Nt Tree	PEACH-LEAVED WILLOW
SALNIG	4	Salix nigra	-5	OBL	Nt Tree	BLACK WILLOW

SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
TYPGLA	1 Typha X glauca	-5 OBL	Nt P-Forb	HYBRID CATTAIL
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
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Site: Inaugural South Suburban Airport
Locale: W01NW2
Date: September 26, 2008 30 minutes
By: AECOM: A.Amelse; M. Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NW2.inv
Notes: FQI includes W01NW2a and b

FLORISTIC QUALITY DATA	Native	12	60.0%	Adventive	8	40.0%
12 NATIVE SPECIES	Tree	3	15.0%	Tree	0	0.0%
20 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
2.9 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.8 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
10.1 NATIVE FQI	P-Forb	4	20.0%	P-Forb	2	10.0%
7.8 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.7 NATIVE MEAN W	A-Forb	3	15.0%	A-Forb	0	0.0%
-1.1 W/Adventives	P-Grass	0	0.0%	P-Grass	4	20.0%
AVG: Fac. Wetland (-)	A-Grass	2	10.0%	A-Grass	2	10.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
APOCAN	4 Apocynum cannabinum	0 FAC	Nt P-Forb	INDIAN HEMP
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
FESPra	0 FESTUCA PRATENSIS	4 FACU-	Ad P-Grass	MEADOW FESCUE
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
JUNTOR	4 Juncus torreyi	-3 FACW	Nt P-Forb	TORREY'S RUSH
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PLAMAJ	0 PLANTAGO MAJOR	-1 FAC+	Ad P-Forb	COMMON PLANTAIN
PLAOCC	9 Platanus occidentalis	-3 FACW	Nt Tree	SYCAMORE
POACOM	0 POA COMPRESSA	2 FACU+	Ad P-Grass	CANADA BLUE GRASS
QUEMAC	5 Quercus macrocarpa	1 FAC-	Nt Tree	BUR OAK
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
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12	22	Bt	10YR	4/3	10YR	5/6	many	distinct	some dark reductions as well. clay, moist, firm																																																								
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Remarks: Small wetland NW of wetland W01NW-2a, identified as W01NW-2b. At one point this wetland was probably connected with W01NW2a, but hydrology has been impacted by construction activities on the airport, and this area is a small remnant wetland located in a depressional area NW of W01NW2a.																																																																								
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Remarks: This plot is located in a wetland. Wetland boundary was delineated based on topography of depressional area.																																																																								

Site: Inaugural South Suburban Airport
Locale: W01NW3
Date: September 26, 2008 30 minutes
By: AECOM: A.Amelse; M. Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W01NW3.inv
Notes: FQI includes W01NW3a and b; next to Bult Field

FLORISTIC QUALITY DATA	Native	11	57.9%	Adventive	8	42.1%
11 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
19 Total Species	Shrub	1	5.3%	Shrub	0	0.0%
2.2 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.3 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
7.2 NATIVE FQI	P-Forb	4	21.1%	P-Forb	3	15.8%
5.5 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.4 NATIVE MEAN W	A-Forb	2	10.5%	A-Forb	1	5.3%
-1.1 W/Adventives	P-Grass	2	10.5%	P-Grass	2	10.5%
AVG: Faculative (+)	A-Grass	2	10.5%	A-Grass	2	10.5%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
AMBARE	0	Ambrosia artemisiifolia elatior	3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
ANDGER	5	Andropogon gerardii	1	FAC-	Nt P-Grass	BIG BLUESTEM GRASS
APOCAN	4	Apocynum cannabinum	0	FAC	Nt P-Forb	INDIAN HEMP
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
CORRAC	1	Cornus racemosa	-2	FACW-	Nt Shrub	GRAY DOGWOOD
ECHCRU	0	Echinochloa crusgalli	-3	FACW	Nt A-Grass	BARNYARD GRASS
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PANDII	0	Panicum dichotomiflorum	-2	FACW-	Nt A-Grass	KNEE GRASS
PANVIR	5	Panicum virgatum	-1	FAC+	Nt P-Grass	SWITCH GRASS
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad P-Grass	REED CANARY GRASS
PLAMAJ	0	PLANTAGO MAJOR	-1	FAC+	Ad P-Forb	COMMON PLANTAIN
POLPER	0	POLYGONUM PERSICARIA	1	[FAC-]	Ad A-Forb	LADY'S THUMB
RUMCRI	0	RUMEX CRISPUS	-1	FAC+	Ad P-Forb	CURLY DOCK
SETFAB	0	SETARIA FABERI	2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0	SETARIA GLAUCA	0	FAC	Ad A-Grass	YELLOW FOXTAIL
SOLGIG	4	Solidago gigantea	-3	FACW	Nt P-Forb	LATE GOLDENROD
TRIHYP	0	TRIFOLIUM HYBRIDUM	1	FAC-	Ad P-Forb	ALSIKE CLOVER

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Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																																						
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Hydric Soil Indicators:										Indicators for Problematic Hydric Soils1:																																																							
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Remarks: Most of polygon now under building or pavement. Plot location is in a mowed grass area next to a hangar. Native soils have been filled and it is visible that the vegetation was recently planted (drill seeded)																																																																								
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Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? no soil core collected Yes <input type="checkbox"/> No <input type="checkbox"/>																																																																	
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Remarks: This area is not located in a wetland. *No Soil core collected This area has been recently graded into a swale between a the taxiway and runway. The original drainage ditch no longer exists, but the new swale may develop wetland characteristics after a few years of collecting runoff from the runway and taxiway. If a wetland developed, it would not be jurisdictional.																																																																	

Site: Inaugural South Suburban Airport
Locale: W01NW6a
Date: September 25, 2008 30 minutes
By: AECOM: A. Amelse; M. Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NW6a.inv

FLORISTIC QUALITY DATA	Native	3	42.9%	Adventive	4	57.1%
3 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
7 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
5.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.1 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
8.7 NATIVE FQI	P-Forb	2	28.6%	P-Forb	0	0.0%
5.7 W/Adventives	B-Forb	0	0.0%	B-Forb	1	14.3%
-4.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
0.7 W/Adventives	P-Grass	1	14.3%	P-Grass	3	42.9%
AVG: Fac. Wetland (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALP	10	Agrostis alba palustris	-5	[OBL]	Nt P-Grass	BENT GRASS
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BROINE	0	BROMUS INERMIS	5	UPL	Ad P-Grass	HUNGARIAN BROME
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
FESPRA	0	FESTUCA PRATENSIS	4	FACU-	Ad P-Grass	MEADOW FESCUE
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHLPRA	0	PHLEUM PRATENSE	3	FACU	Ad P-Grass	TIMOTHY

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VEGETATION Dominant Species (50/20 Rule) <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 10%;"></th> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr> <td>1. <i>Setaria faberi</i></td> <td>FACU+</td> <td>HERB</td> <td>20</td> <td></td> <td>7. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>2. <i>Plantago major</i></td> <td>FAC+</td> <td>HERB</td> <td>5</td> <td></td> <td>8. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>3. <i>Ambrosia artemisiifolia</i></td> <td>FACU</td> <td>HERB</td> <td>10</td> <td></td> <td>9. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>4. <i>Trifolium hybridum</i></td> <td>FAC-</td> <td>HERB</td> <td>10</td> <td></td> <td>10. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>5. <i>Trifolium pratense</i></td> <td>FACU+</td> <td>HERB</td> <td>5</td> <td></td> <td>11. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>6. --</td> <td>--</td> <td>--</td> <td>--</td> <td></td> <td>12. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover	1. <i>Setaria faberi</i>	FACU+	HERB	20		7. --	--	--	--	2. <i>Plantago major</i>	FAC+	HERB	5		8. --	--	--	--	3. <i>Ambrosia artemisiifolia</i>	FACU	HERB	10		9. --	--	--	--	4. <i>Trifolium hybridum</i>	FAC-	HERB	10		10. --	--	--	--	5. <i>Trifolium pratense</i>	FACU+	HERB	5		11. --	--	--	--	6. --	--	--	--	
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Site: SSA Inaugural Delineation
Locale: W01SE1
Date: September 24, 2008 2 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE1.inv

FLORISTIC QUALITY DATA	Native	32	72.7%	Adventive	12	27.3%
32 NATIVE SPECIES	Tree	3	6.8%	Tree	1	2.3%
44 Total Species	Shrub	4	9.1%	Shrub	0	0.0%
2.5 NATIVE MEAN C	W-Vine	2	4.5%	W-Vine	0	0.0%
1.8 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
14.0 NATIVE FQI	P-Forb	14	31.8%	P-Forb	3	6.8%
11.9 W/Adventives	B-Forb	0	0.0%	B-Forb	2	4.5%
-1.6 NATIVE MEAN W	A-Forb	5	11.4%	A-Forb	1	2.3%
-1.1 W/Adventives	P-Grass	1	2.3%	P-Grass	5	11.4%
AVG: Fac. Wetland (-)	A-Grass	1	2.3%	A-Grass	0	0.0%
	P-Sedge	2	4.5%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0	Acer saccharinum	-3	FACW	Nt Tree	SILVER MAPLE
AGRREP	0	AGROPYRON REPENS	3	FACU	Ad P-Grass	QUACK GRASS
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
AMBARE	0	Ambrosia artemisiifolia elatior	3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASCINC	4	Asclepias incarnata	-5	OBL	Nt P-Forb	SWAMP MILKWEED
ASTNOV	4	Aster novae-angliae	-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BIDCER	5	Bidens cernua	-5	OBL	Nt A-Forb	NODDING BUR MARIGOLD
BIDCON	5	Bidens connata	-5	OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1	Bidens frondosa	-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CORSTO	6	Cornus stolonifera	-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0	Echinochloa crusgalli	-3	FACW	Nt A-Grass	BARNYARD GRASS
EUPSEM	0	Eupatorium serotinum	-1	FAC+	Nt P-Forb	LATE BONESET
FESELA	0	FESTUCA ELATIOR	2	FACU+	Ad P-Grass	TALL FESCUE
FRAPES	1	Fraxinus pennsylvanica subintegerrima	0	FAC	Nt Tree	GREEN ASH
GEUCAN	1	Geum canadense	0	FAC	Nt P-Forb	WOOD AVENS
GLYSTR	4	Glyceria striata	-3	[FACW]	Nt P-Grass	FOWL MANNA GRASS
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4	Juncus dudleyi	0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
JUNTOR	4	Juncus torreyi	-3	FACW	Nt P-Forb	TORREY'S RUSH
LYTSAL	0	LYTHRUM SALICARIA	-5	OBL	Ad P-Forb	PURPLE LOOSESTRIFE
MELALB	0	MELILOTUS ALBA	3	FACU	Ad B-Forb	WHITE SWEET CLOVER
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad P-Grass	REED CANARY GRASS
PHYVIG	4	Physalis virginiana	5	UPL	Nt P-Forb	LANCE-LEAVED GROUND

CHERRY POACOM	0 POA COMPRESSA	2 FACU+	Ad P-Grass	CANADA BLUE GRASS
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	0 Prunella vulgaris lanceolata	3 [FACU]	Nt P-Forb	SELF HEAL
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALDIS	2 Salix discolor	-3 FACW	Nt Shrub	PUSSY WILLOW
SALFRA	0 SALIX FRAGILIS	-1 FAC+	Ad Tree	CRACK WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SCIVAC	5 Scirpus validus creber	-5 OBL	Nt P-Sedge	GREAT BULRUSH
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLGRG GOLDENROD	4 Solidago graminifolia	-2 FACW-	Nt P-Forb	COMMON GRASS-LEAVED
SONULI	0 SONCHUS ULIGINOSUS	1 FAC-	Ad P-Forb	COMMON SOW THISTLE
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
VERURU	5 Verbena urticifolia	5 UPL	Nt P-Forb	HAIRY WHITE VERVAIN
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

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Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: 18 (in.) Depth to Saturated Soil: surface (in.)																																																																								
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Remarks: Hydric soils are present. Signs of pond excavation in upper layer.																																																																								
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Remarks: This plot is located in a wetland.																																																																								

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport						Date: 09/24/08																																																																		
Applicant/Owner: Illinois Department of Transportation						County: Will																																																																		
Investigator #1: AECOM; T. Radke #2: R. Page						State: Illinois																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: Upland																																																																		
Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Station ID: W01SE-1																																																																		
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: S1																																																																		
Remarks: Soil core ~ 50' west of excavated pond in old field.																																																																								
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1	6	A1	10YR 5/4	10YR 6/1 10YR 6/6 10YR 3/1 7.5YR 5/6	few prominent common distinct few distinct few prominent	Silty clay loam; Moist, friable																																																																		
6	12	B1	10YR 4/1	10YR 6/6 7.5YR 5/6	common distinct few prominent	Silty clay; Moist, firm																																																																		
12	17	B2	10YR 4/1	10YR 4/6 7.5YR 5/6	many prominent few prominent	Silty clay; Moist, firm																																																																		
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Remarks: Hydric soils are present. Wetland vegetation and hydrology are not present. Hydric soil features appear to be relicts of wetter period prior to excavation of pond.																																																																								
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Site: SSA Inaugural Delineation
Locale: W01SE2a
Date: September 24, 2008 8 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE2a.inv

FLORISTIC QUALITY DATA		Native	47	72.3%	Adventive	18	27.7%
47	NATIVE SPECIES	Tree	7	10.8%	Tree	3	4.6%
65	Total Species	Shrub	4	6.2%	Shrub	2	3.1%
3.0	NATIVE MEAN C	W-Vine	3	4.6%	W-Vine	1	1.5%
2.1	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
20.3	NATIVE FQI	P-Forb	19	29.2%	P-Forb	3	4.6%
17.2	W/Adventives	B-Forb	1	1.5%	B-Forb	0	0.0%
-1.1	NATIVE MEAN W	A-Forb	4	6.2%	A-Forb	3	4.6%
-0.4	W/Adventives	P-Grass	5	7.7%	P-Grass	5	7.7%
AVG:	Faculative (+)	A-Grass	2	3.1%	A-Grass	1	1.5%
		P-Sedge	2	3.1%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			
ACRONYM	C SCIENTIFIC NAME	W WETNESS		PHYSIOGNOMY		COMMON NAME	
ABUTHE	0 ABUTILON THEOPHRASTI	4	FACU-	Ad	A-Forb	VELVETLEAF	
ACARHO	0 Acalypha rhomboidea	3	FACU	Nt	A-Forb	THREE-SEEDED MERCURY	
ACENEG	0 Acer negundo	-2	FACW-	Nt	Tree	BOX ELDER	
AGRGRY	2 Agrimonia gryposepala	2	FACU+	Nt	P-Forb	TALL AGRIMONY	
AGRREP	0 AGROPYRON REPENS	3	FACU	Ad	P-Grass	QUACK GRASS	
AGRALA	0 AGROSTIS ALBA	-3	FACW	Ad	P-Grass	REDTOP	
AGRALP	10 Agrostis alba palustris	-5	[OBL]	Nt	P-Grass	BENT GRASS	
ALISUB	4 Alisma subcordatum	-5	OBL	Nt	P-Forb	COMMON WATER PLANTAIN	
AMBTRI	0 Ambrosia trifida	-1	FAC+	Nt	A-Forb	GIANT RAGWEED	
ANDGER	5 Andropogon gerardii	1	FAC-	Nt	P-Grass	BIG BLUESTEM GRASS	
ASACAN	7 Asarum canadense	5	UPL	Nt	P-Forb	WILD GINGER	
ASTNOV	4 Aster novae-angliae	-3	FACW	Nt	P-Forb	NEW ENGLAND ASTER	
ASTSIS	3 Aster simplex	-5	OBL	Nt	P-Forb	PANICLED ASTER	
BIDFRO	1 Bidens frondosa	-3	FACW	Nt	A-Forb	COMMON BEGGAR'S TICKS	
BROINE	0 BROMUS INERMIS	5	UPL	Ad	P-Grass	HUNGARIAN BROME	
CXCRIS	4 Carex cristatella	-4	FACW+	Nt	P-Sedge	CRESTED OVAL SEDGE	
CICMAC	6 Cicuta maculata	-5	OBL	Nt	P-Forb	WATER HEMLOCK	
CORSTO	6 Cornus stolonifera	-3	FACW	Nt	Shrub	RED-OSIER DOGWOOD	
ECHCRU	0 Echinochloa crusgalli	-3	FACW	Nt	A-Grass	BARNYARD GRASS	
ELAUMB	0 ELAEAGNUS UMBELLATA	5	UPL	Ad	Shrub	AUTUMN OLIVE	
ELYVIR	4 Elymus virginicus	-2	FACW-	Nt	P-Grass	VIRGINIA WILD RYE	
EPICOL	3 Epilobium coloratum	-5	OBL	Nt	P-Forb	CINNAMON WILLOW HERB	
EUPRUG	4 Eupatorium rugosum	5	UPL	Nt	P-Forb	WHITE SNAKEROOT	
FESELA	0 FESTUCA ELATIOR	2	FACU+	Ad	P-Grass	TALL FESCUE	
GEUCAN	1 Geum canadense	0	FAC	Nt	P-Forb	WOOD AVENS	
GLYSTR	4 Glyceria striata	-3	[FACW]	Nt	P-Grass	FOWL MANNA GRASS	

HACVIR	0	Hackelia virginiana	1	FAC-	Nt	B-Forb	STICKSEED
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt	P-Forb	SAWTOOTH SUNFLOWER
IPOHED	0	IPOMOEA HEDERACEA	0	FAC	Ad	A-Forb	IVY-LEAVED MORNING GLORY
JUGNIG	5	Juglans nigra	3	FACU	Nt	Tree	BLACK WALNUT
JUNTEN	0	Juncus tenuis	2	[FACU+]	Nt	P-Forb	PATH RUSH
JUNTOR	4	Juncus torreyi	-3	FACW	Nt	P-Forb	TORREY'S RUSH
LONTAT	0	LONICERA TATARICA	5	[UPL]	Ad	Shrub	TARTARIAN HONEYSUCKLE
MACPOM	0	MACLURA POMIFERA	3	FACU	Ad	Tree	OSAGE ORANGE
MORALB	0	MORUS ALBA	0	FAC	Ad	Tree	WHITE MULBERRY
OSMLON	3	Osmorhiza longistylis	4	FACU-	Nt	P-Forb	SMOOTH SWEET CICELY
PANDII	0	Panicum dichotomiflorum	-2	FACW-	Nt	A-Grass	KNEE GRASS
PARINT	8	Parthenium integrifolium	5	UPL	Nt	P-Forb	WILD QUININE
PARQUI	2	Parthenocissus quinquefolia	1	FAC-	Nt	W-Vine	VIRGINIA CREEPER
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad	P-Grass	REED CANARY GRASS
POPDEL	2	Populus deltoides	-1	FAC+	Nt	Tree	EASTERN COTTONWOOD
PRUVLA	0	Prunella vulgaris lanceolata	3	[FACU]	Nt	P-Forb	SELF HEAL
RHURAD	2	Rhus radicans	-1	FAC+	Nt	W-Vine	POISON IVY
RORPAF	4	Rorippa palustris fernaldiana	-5	OBL	Nt	A-Forb	MARSH CRESS
RUBOCC	2	Rubus occidentalis	5	UPL	Nt	Shrub	BLACK RASPBERRY
RUMCRI	0	RUMEX CRISPUS	-1	FAC+	Ad	P-Forb	CURLY DOCK
SALAMY	5	Salix amygdaloides	-3	FACW	Nt	Tree	PEACH-LEAVED WILLOW
SALFRA	0	SALIX FRAGILIS	-1	FAC+	Ad	Tree	CRACK WILLOW
SALINT	1	Salix interior	-5	OBL	Nt	Shrub	SANDBAR WILLOW
SALNIG	4	Salix nigra	-5	OBL	Nt	Tree	BLACK WILLOW
SAMCAN	1	Sambucus canadensis	-2	FACW-	Nt	Shrub	ELDERBERRY
SANGRE	2	Sanicula gregaria	-1	FAC+	Nt	P-Forb	CLUSTERED BLACK
SNAKEROOT							
SCIATR	4	Scirpus atrovirens	-5	OBL	Nt	P-Sedge	DARK GREEN RUSH
SETGLA	0	SETARIA GLAUCA	0	FAC	Ad	A-Grass	YELLOW FOXTAIL
SOLCAR	0	SOLANUM CAROLINENSE	4	FACU-	Ad	P-Forb	HORSE NETTLE
SOLDUL	0	SOLANUM DULCAMARA	0	FAC	Ad	W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1	Solidago altissima	3	FACU	Nt	P-Forb	TALL GOLDENROD
SOLGRG	4	Solidago graminifolia	-2	FACW-	Nt	P-Forb	COMMON GRASS-LEAVED
GOLDENROD							
SPAPEC	4	Spartina pectinata	-4	FACW+	Nt	P-Grass	PRAIRIE CORD GRASS
TILAME	5	Tilia americana	3	FACU	Nt	Tree	AMERICAN LINDEN
TRIPRA	0	TRIFOLIUM PRATENSE	5	UPL	Ad	P-Forb	RED CLOVER
TYPANG	1	Typha angustifolia	-5	OBL	Nt	P-Forb	NARROW-LEAVED CATTAIL
ULMAME	3	Ulmus americana	-2	FACW-	Nt	Tree	AMERICAN ELM

VITRIP	2	Vitis riparia	-2	FACW-	Nt	W-Vine	RIVERBANK GRAPE
XANSTR	0	XANTHIUM STRUMARIUM	0	FAC	Ad	A-Forb	COCKLEBUR

Site: SSA Inaugural Delineation
Locale: W01SE2b
Date: September 24, 2008 15 minutes
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE2b.inv

FLORISTIC QUALITY DATA		Native	8	88.9%	Adventive	1	11.1%
8	NATIVE SPECIES	Tree	2	22.2%	Tree	0	0.0%
9	Total Species	Shrub	1	11.1%	Shrub	0	0.0%
2.9	NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.6	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
8.1	NATIVE FQI	P-Forb	3	33.3%	P-Forb	0	0.0%
7.7	W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.7	NATIVE MEAN W	A-Forb	1	11.1%	A-Forb	1	11.1%
-2.4	W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Fac. Wetland		A-Grass	0	0.0%	A-Grass	0	0.0%
		P-Sedge	1	11.1%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			
ACRONYM	C	SCIENTIFIC NAME			W WETNESS	PHYSIOGNOMY	COMMON NAME
ALISUB	4	Alisma subcordatum			-5 OBL	Nt P-Forb	COMMON WATER PLANTAIN
BIDFRO	1	Bidens frondosa			-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CORSTO	6	Cornus stolonifera			-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
POPDEL	2	Populus deltoides			-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	0	Prunella vulgaris lanceolata			3 [FACU]	Nt P-Forb	SELF HEAL
SALAMY	5	Salix amygdaloides			-3 FACW	Nt Tree	PEACH-LEAVED WILLOW
SCIATR	4	Scirpus atrovirens			-5 OBL	Nt P-Sedge	DARK GREEN RUSH
TYPANG	1	Typha angustifolia			-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
XANSTR	0	XANTHIUM STRUMARIUM			0 FAC	Ad A-Forb	COCKLEBUR

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. Page						Date: 09/24/08 County: Will State: Illinois Community ID: PFO, PSS Station ID: W01SE-2 Plot ID: S2																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Natural drainageway has been excavated and tiled.																																																																		
VEGETATION																																																																								
Dominant Species (50/20 Rule)																																																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 10%;"></th> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr> <td>1. <i>Agrostis stolonifera</i></td> <td>FACW</td> <td>HERB</td> <td>50</td> <td></td> <td>7. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>2. <i>Elymus virginicus</i></td> <td>FACW-</td> <td>HERB</td> <td>25</td> <td></td> <td>8. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>3. <i>Geum canadense</i></td> <td>FAC</td> <td>HERB</td> <td>10</td> <td></td> <td>9. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>4. <i>Juglans nigra</i></td> <td>UPL</td> <td>TREE</td> <td>100</td> <td></td> <td>10. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>5. <i>Hackelia virginiana</i></td> <td>FAC-</td> <td>HERB</td> <td>5</td> <td></td> <td>11. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>6. <i>Ageratina altissima</i></td> <td>FACU</td> <td>HERB</td> <td>5</td> <td></td> <td>12. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover	1. <i>Agrostis stolonifera</i>	FACW	HERB	50		7. --	--	--	--	2. <i>Elymus virginicus</i>	FACW-	HERB	25		8. --	--	--	--	3. <i>Geum canadense</i>	FAC	HERB	10		9. --	--	--	--	4. <i>Juglans nigra</i>	UPL	TREE	100		10. --	--	--	--	5. <i>Hackelia virginiana</i>	FAC-	HERB	5		11. --	--	--	--	6. <i>Ageratina altissima</i>	FACU	HERB	5		12. --	--	--	--
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant.																																																																								
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Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																								
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Remarks: Hydric soils are present. Layer of soil at 13" has low chroma and appears to be buried beneath a layer of sediment. The lower layer corresponds to the mapped soil unit.						¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																																		
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DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. Page						Date: 09/24/08 County: Will State: Illinois Community ID: Upland Station ID: W01SE-2 Plot ID: S1																																																											
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Site: SSA Inaugural Delineation
Locale: W01SE2c
Date: September 25, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE2c.inv

FLORISTIC QUALITY DATA		Native	27	87.1%	Adventive	4	12.9%
27	NATIVE SPECIES	Tree	7	22.6%	Tree	0	0.0%
31	Total Species	Shrub	3	9.7%	Shrub	1	3.2%
3.1	NATIVE MEAN C	W-Vine	1	3.2%	W-Vine	0	0.0%
2.7	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
16.2	NATIVE FQI	P-Forb	12	38.7%	P-Forb	0	0.0%
15.1	W/Adventives	B-Forb	0	0.0%	B-Forb	1	3.2%
-0.3	NATIVE MEAN W	A-Forb	3	9.7%	A-Forb	0	0.0%
0.0	W/Adventives	P-Grass	1	3.2%	P-Grass	2	6.5%
AVG:	Faculative	A-Grass	0	0.0%	A-Grass	0	0.0%
		P-Sedge	0	0.0%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
ALISUB	4	Alisma subcordatum	-5	OBL	Nt P-Forb	COMMON WATER PLANTAIN
AMBARE	0	Ambrosia artemisiifolia elatior	3	FACU	Nt A-Forb	COMMON RAGWEED
ANDGER	5	Andropogon gerardii	1	FAC-	Nt P-Grass	BIG BLUESTEM GRASS
ASTNOV	4	Aster novae-angliae	-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1	Bidens frondosa	-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CORSTO	6	Cornus stolonifera	-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
CRAMOL	2	Crataegus mollis	4	FACU-	Nt Tree	DOWNY HAWTHORN
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
FRAVIR	1	Fragaria virginiana	1	FAC-	Nt P-Forb	WILD STRAWBERRY
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4	Juncus dudleyi	0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
LONTAT	0	LONICERA TATARICA	5	[UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
POACOM	0	POA COMPRESSA	2	FACU+	Ad P-Grass	CANADA BLUE GRASS
POLSAN	6	Polygala sanguinea	3	FACU	Nt A-Forb	FIELD MILKWORT
POPDEL	2	Populus deltoides	-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1	Prunus serotina	3	FACU	Nt Tree	WILD BLACK CHERRY
QUEMAC	5	Quercus macrocarpa	1	FAC-	Nt Tree	BUR OAK
QUEPAU	8	Quercus palustris	-3	FACW	Nt Tree	PIN OAK
RHURAD	2	Rhus radicans	-1	FAC+	Nt W-Vine	POISON IVY
RUBALL	3	Rubus allegheniensis	2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUDHIR	1	Rudbeckia hirta	3	FACU	Nt P-Forb	BLACK-EYED SUSAN
SALAMY	5	Salix amygdaloides	-3	FACW	Nt Tree	PEACH-LEAVED WILLOW
SALINT	1	Salix interior	-5	OBL	Nt Shrub	SANDBAR WILLOW
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD

SOLGRG	4	Solidago graminifolia	-2	FACW-	Nt	P-Forb	COMMON GRASS-LEAVED
GOLDENROD							
SOLJUN	5	Solidago juncea	5	UPL	Nt	P-Forb	EARLY GOLDENROD
SOLNEM	4	Solidago nemoralis	5	UPL	Nt	P-Forb	OLD-FIELD GOLDENROD
TYPANG	1	Typha angustifolia	-5	OBL	Nt	P-Forb	NARROW-LEAVED CATTAIL
ULMAME	3	Ulmus americana	-2	FACW-	Nt	Tree	AMERICAN ELM

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. Page						Date: 09/24/08 County: Will State: Illinois Community ID: POW/PEM Station ID: W01SE-2c Plot ID: S1																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)																																																																								
Remarks: Excavated pond in upland area next to stream corridor. Wetland is pond and emergent/shrub fringe.																																																																								
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Hydrophytic vegetation dominant around edges of pond, but not beyond. Pond located in grove of planted white pines.																																																																								
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<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: _____ None Primary Indicators: <input checked="" type="checkbox"/> Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)																																																																			
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Remarks: Wetland hydrology is present. Feature is likely a former livestock pond that has become naturalized along edges.																																																																								
SOILS																																																																								
Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? _____ * Yes _____ No																																																																								
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Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat						Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)																																																																		
¹ Indicators of hydrophytic vegetation and wetland hydrology must be present.						² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)																																																																		
Remarks: Hydric soils are mapped along stream corridor. No soil core taken because wetland is pond.																																																																								
WETLAND DETERMINATION																																																																								
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Remarks: This plot is a pond. No soil core taken.																																																																								

Site: SSA Inaugural Delineation
Locale: W01SE3
Date: September 11, 2008 8 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W01SE3.inv

FLORISTIC QUALITY DATA		Native	45	81.8%	Adventive	10	18.2%
45	NATIVE SPECIES	Tree	5	9.1%	Tree	1	1.8%
55	Total Species	Shrub	6	10.9%	Shrub	1	1.8%
2.4	NATIVE MEAN C	W-Vine	3	5.5%	W-Vine	1	1.8%
1.9	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
16.0	NATIVE FQI	P-Forb	17	30.9%	P-Forb	2	3.6%
14.4	W/Adventives	B-Forb	1	1.8%	B-Forb	1	1.8%
-1.8	NATIVE MEAN W	A-Forb	7	12.7%	A-Forb	0	0.0%
-1.3	W/Adventives	P-Grass	0	0.0%	P-Grass	3	5.5%
AVG:	Fac. Wetland (-)	A-Grass	2	3.6%	A-Grass	1	1.8%
		P-Sedge	3	5.5%	P-Sedge	0	0.0%
		A-Sedge	1	1.8%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACARHO	0	Acalypha rhomboidea	3	FACU	Nt A-Forb	THREE-SEEDED MERCURY
ACENEG	0	Acer negundo	-2	FACW-	Nt Tree	BOX ELDER
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
AMBARE	0	Ambrosia artemisiifolia elatior	3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOSIB	2	Apocynum sibiricum	-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASTLAT	4	Aster lateriflorus	-2	FACW-	Nt P-Forb	SIDE-FLOWERING ASTER
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BIDCER	5	Bidens cernua	-5	OBL	Nt A-Forb	NODDING BUR MARIGOLD
BIDFRO	1	Bidens frondosa	-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CXCRIS	4	Carex cristatella	-4	FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CXVULP	2	Carex vulpinoidea	-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
CIRDIS	2	Cirsium discolor	5	UPL	Nt B-Forb	PASTURE THISTLE
CORSTO	6	Cornus stolonifera	-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
CYPFER	2	Cyperus ferruginescens	-5	OBL	Nt A-Sedge	RUSTY NUT SEDGE
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0	Echinochloa crusgalli	-3	FACW	Nt A-Grass	BARNYARD GRASS
EPICOL	3	Epilobium coloratum	-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
EUPSEM	0	Eupatorium serotinum	-1	FAC+	Nt P-Forb	LATE BONESET
FESELA	0	FESTUCA ELATIOR	2	FACU+	Ad P-Grass	TALL FESCUE
GEUCAN	1	Geum canadense	0	FAC	Nt P-Forb	WOOD AVENS
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
IRIVIS	5	Iris virginica shrevei	-5	OBL	Nt P-Forb	BLUE FLAG
JUNDUD	4	Juncus dudleyi	0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
LIPLAN	6	Lippia lanceolata	-5	OBL	Nt P-Forb	FOG FRUIT
LONMAA	0	LONICERA MAACKII	5	UPL	Ad Shrub	AMUR HONEYSUCKLE

MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
OSMLON	3 Osmorhiza longistylis	4 FACU-	Nt P-Forb	SMOOTH SWEET CICELY
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PARQUI	2 Parthenocissus quinquefolia	1 FAC-	Nt W-Vine	VIRGINIA CREEPER
PENSED	5 Penthorum sedoides	-5 OBL	Nt P-Forb	DITCH STONECROP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	0 Prunella vulgaris lanceolata	3 [FACU]	Nt P-Forb	SELF HEAL
PRUSER	1 Prunus serotina	3 FACU	Nt Tree	WILD BLACK CHERRY
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALAMY	5 Salix amygdaloides	-3 FACW	Nt Tree	PEACH-LEAVED WILLOW
SALDIS	2 Salix discolor	-3 FACW	Nt Shrub	PUSSY WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SCIPEN	4 Scirpus pendulus	-5 OBL	Nt P-Sedge	RED BULRUSH
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLDUL	0 SOLANUM DULCAMARA	0 FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLGRG	4 Solidago graminifolia	-2 FACW-	Nt P-Forb	COMMON GRASS-LEAVED
GOLDENROD	6 Sparganium eurycarpum	-5 OBL	Nt P-Forb	COMMON BUR REED
SPAEUR		5 UPL	Ad P-Forb	RED CLOVER
TRIPRA	0 TRIFOLIUM PRATENSE	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
TYPANG	1 Typha angustifolia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET
VIOSOR	3 Viola sororia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE
VITRIP	2 Vitis riparia			

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Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																			
Remarks: This plot is located in wetland. Drainage tile present in stream corridor.																																																																								

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																					
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Robyn West						Date: 09/11/08 County: Will State: Illinois Community ID: Upland Station ID: W01SE-3 Plot ID: S2																																																															
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)																																																																					
Remarks: edge of cornfield; upland vegetation between corn field and grassed waterway (Teri and Robert completed the wetland soil core)																																																																					
VEGETATION																																																																					
Dominant Species (50/20 Rule)																																																																					
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Remarks: This plot is not located in a wetland.																																																																					

Site: SSA Inaugural Delineation
 Locale: W01SE4
 Date: September 25, 2008 30 minutes
 By: AECOM: T.Radke; R.West
 File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE4.inv

FLORISTIC QUALITY DATA	Native	0	0.0%	Adventive	2	100.0%
0 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
2 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
2.5 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	2	100.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
SETGLA	0	SETARIA GLAUCA	0	FAC	Ad A-Grass	YELLOW FOXTAIL
ZEAMAY	0	ZEA MAYS	5	UPL	Ad A-Grass	CORN

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)										
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 09/25/08 County: Will State: Illinois Community ID: PEM Station ID: W01SE-4 Plot ID: S1				
Do Normal Circumstances Exist On The Site? _____ Yes _____ <input checked="" type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? _____ Yes _____ <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Soil core at edge of cropped field. Vegetation is corn crop.				
VEGETATION										
Dominant Species (50/20 Rule)										
	<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>			<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>
1.	<i>Zea mays</i>	UPL	HERB	10		7.	--	--	--	--
2.	<i>Setaria glauca</i>	FAC	HERB	10		8.	--	--	--	--
3.	--	--	--	--		9.	--	--	--	--
4.	--	--	--	--		10.	--	--	--	--
5.	--	--	--	--		11.	--	--	--	--
6.	--	--	--	--		12.	--	--	--	--
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50%										
Remarks: Normal circumstances do not exist since the area is cropped. Corn is stunted and sparse. Yellow foxtail grows in bare areas.										
HYDROLOGY										
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data _____ FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)					
Field Observations: Depth of Surface Water: _____ NA (in.) Depth to Free Water: _____ NA (in.) Depth to Saturated Soil: _____ NA (in.)					Remarks: Wetland hydrology is present. NRCS review and failed corn crop are indicators of wetland hydrology.					
SOILS										
Map Unit Name: Ashkum silty clay loam					Series Drainage Class: Poorly drained					
Taxonomy (Subgroup): Typic Endoaquolls					Field Observations Confirm Mapped Type? _____ <input checked="" type="checkbox"/> Yes _____ No					
Profile Description:										
	Top	Bottom		Matrix Color	Mottle Colors	Mottle		Texture, moisture, consistency, organic material, and other soil characteristics.		
	Depth	Depth	Horizon	(Munsell Moist):	(Munsell Moist):	Abundance/Contrast				
0	10		A	10YR 2/1	NA NA	NA NA		Silty loam; Mucky, firm		
10	20		A2	10YR 2/1	NA NA	NA NA		Clay; very firm		
Hydric Soil Indicators ² :										
_____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat					_____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix <input checked="" type="checkbox"/> (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions					
_____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)					¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)					
Remarks: Hydric soils are present.										
WETLAND DETERMINATION										
Hydrophytic Vegetation Present? _____ <input checked="" type="checkbox"/> Yes _____ No					Hydric Soils Present? _____ <input checked="" type="checkbox"/> Yes _____ No					
Wetland Hydrology Present? _____ <input checked="" type="checkbox"/> Yes _____ No					Is This Sampling Point Within A Wetland? _____ <input checked="" type="checkbox"/> Yes _____ No					
Remarks: This plot is located in a wetland.										

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)										
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 09/25/08 County: Will State: Illinois Community ID: Upland Station ID: W01SE-4 Plot ID: S2				
Do Normal Circumstances Exist On The Site? _____ Yes _____ X No Is The Site Significantly Disturbed (Atypical Situation)? _____ Yes _____ X No Is The Area A Potential Problem Area? _____ Yes _____ X No (If yes, define below.)						Remarks: This area is a cultivated field.				
VEGETATION										
Dominant Species (50/20 Rule)										
	<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>			<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>
1.	Zea mays	UPL	HERB	60		7.	--	--	--	--
2.	--	--	--	--		8.	--	--	--	--
3.	--	--	--	--		9.	--	--	--	--
4.	--	--	--	--		10.	--	--	--	--
5.	--	--	--	--		11.	--	--	--	--
6.	--	--	--	--		12.	--	--	--	--
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-):						0%				
Remarks: Hydrophytic vegetation is not dominant.										
HYDROLOGY										
<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)					
Field Observations: Depth of Surface Water: _____ NA (in.) Depth to Free Water: _____ NA (in.) Depth to Saturated Soil: _____ NA (in.)					Remarks: Wetland hydrology is not present.					
SOILS										
Map Unit Name: Ashkum silty clay loam						Series Drainage Class: Poorly drained				
Taxonomy (Subgroup): Typic Endoaquolls						Field Observations Confirm Mapped Type? _____ Yes _____ X No				
Profile Description:										
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.				
Depth	Depth									
0	11	A	10YR 3/1	NA NA	NA NA	Silty loam; moist, friable				
11	21	B	10YR 6/1	10YR 4/1 10YR 6/8	common faint common distinct	Clay; moist, firm				
Hydric Soil Indicators ² :										
_____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck <input checked="" type="checkbox"/> (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat					_____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix _____ (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions					
_____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)					¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. ² Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)					
Remarks: Hydric soils are not present.										
WETLAND DETERMINATION										
Hydrophytic Vegetation Present? _____ Yes _____ X No					Hydric Soils Present? _____ X Yes _____ No					
Wetland Hydrology Present? _____ Yes _____ X No					Is This Sampling Point Within A Wetland? _____ Yes _____ X No					
Remarks: This plot is not located in wetland.										

Site: SSA Inaugural Delineation
Locale: W01SE5
Date: September 26, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE5.inv

FLORISTIC QUALITY DATA		Native	11	84.6%	Adventive	2	15.4%
11	NATIVE SPECIES	Tree	5	38.5%	Tree	0	0.0%
13	Total Species	Shrub	2	15.4%	Shrub	0	0.0%
1.3	NATIVE MEAN C	W-Vine	1	7.7%	W-Vine	0	0.0%
1.1	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
4.2	NATIVE FQI	P-Forb	2	15.4%	P-Forb	1	7.7%
3.9	W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-0.5	NATIVE MEAN W	A-Forb	1	7.7%	A-Forb	0	0.0%
0.0	W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative (+)		A-Grass	0	0.0%	A-Grass	1	7.7%
		P-Sedge	0	0.0%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0	Acer negundo	-2	FACW-	Nt Tree	BOX ELDER
ACESAI	0	Acersaccharinum	-3	FACW	Nt Tree	SILVER MAPLE
CRACRU	2	Crataegus crus-galli	0	FAC	Nt Tree	COCKSPUR HAWTHORN
DIGISC	0	DIGITARIA ISCHAEMUM	3	FACU	Ad A-Grass	SMOOTH CRAB GRASS
FRAPES	1	Fraxinus pennsylvanica subintegerrima	0	FAC	Nt Tree	GREEN ASH
GEUCAN	1	Geum canadense	0	FAC	Nt P-Forb	WOOD AVENS
GLEHED	0	GLECHOMA HEDERACEA	3	FACU	Ad P-Forb	CREEPING CHARLIE
POLPEN	0	Polygonum pensylvanicum	-4	FACW+	Nt A-Forb	PINKWEED
PRUSER	1	Prunus serotina	3	FACU	Nt Tree	WILD BLACK CHERRY
RHURAD	2	Rhus radicans	-1	FAC+	Nt W-Vine	POISON IVY
RUBALL	3	Rubus allegheniensis	2	FACU+	Nt Shrub	COMMON BLACKBERRY
SAMCAN	1	Sambucus canadensis	-2	FACW-	Nt Shrub	ELDERBERRY
VIOSOR	3	Viola sororia	1	FAC-	Nt P-Forb	COMMON BLUE VIOLET

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West						Date: 09/26/08 County: Will State: Illinois Community ID: PFO Station ID: W01SE-5 Plot ID: S2																																																																		
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Remarks: This plot is not located in wetland. Soil core is uphill from wet woods.																																																																																	

Site: Inaugual South Suburban Airport
Locale: W01SE6
Date: October 1, 2008 30 minutes
By: AECOM; T.Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE6.inv
Notes: Large bare detention basin for Bult field--still under construction.

FLORISTIC QUALITY DATA		Native	6	54.5%	Adventive	5	45.5%
6	NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
11	Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.8	NATIVE MEAN C	W-Vine	2	18.2%	W-Vine	0	0.0%
0.5	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
2.0	NATIVE FQI	P-Forb	1	9.1%	P-Forb	1	9.1%
1.5	W/Adventives	B-Forb	0	0.0%	B-Forb	1	9.1%
0.5	NATIVE MEAN W	A-Forb	3	27.3%	A-Forb	1	9.1%
1.9	W/Adventives	P-Grass	0	0.0%	P-Grass	2	18.2%
AVG: Faculative (-)		A-Grass	0	0.0%	A-Grass	0	0.0%
		P-Sedge	0	0.0%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0	ABUTILON THEOPHRASTI	4	FACU-	Ad A-Forb	VELVETLEAF
AGRREP	0	AGROPYRON REPENS	3	FACU	Ad P-Grass	QUACK GRASS
AMBARE	0	Ambrosia artemisiifolia elatior	3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ERICAN	0	Erigeron canadensis	1	FAC-	Nt A-Forb	HORSEWEED
PHLPRA	0	PHLEUM PRATENSE	3	FACU	Ad P-Grass	TIMOTHY
RHURAD	2	Rhus radicans	-1	FAC+	Nt W-Vine	POISON IVY
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD
TAROFF	0	TARAXACUM OFFICINALE	3	FACU	Ad P-Forb	COMMON DANDELION
VITRIP	2	Vitis riparia	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. West						Date: 10/01/08 County: Will State: Illinois Community ID: POW Station ID: W01SE-6 Plot ID: NA																																																											
Do Normal Circumstances Exist On The Site? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is The Site Significantly Disturbed (Atypical Situation)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Is The Area A Potential Problem Area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, define below.)						Remarks: Cropfield now an excavation for new airfield runway detention basin. Limits of new basin delineated.																																																											
VEGETATION																																																																	
Dominant Species (50/20 Rule)																																																																	
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Map Unit Name: Ozaukee silt loam/Ashkum silty clay loam Series Drainage Class: Moderately well drained/Poorly drained Taxonomy (Subgroup): Oxyaquic Hapludalfs/Typic Endoaquolls Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																	
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Remarks: Two soil units mapped for area. Soil core not taken. Area excavated for large detention lake.																																																																	
WETLAND DETERMINATION																																																																	
Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Hydric Soils Present? <input type="checkbox"/> Yes <input type="checkbox"/> No Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																												
Remarks: Large open water area recently excavated for airfield detention *Soil core not taken																																																																	

Site: SSA Inaugrual Delineation
Locale: W01SE7
Date: October 1, 2008 2 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE7.inv

FLORISTIC QUALITY DATA	Native	15	71.4%	Adventive	6	28.6%
15 NATIVE SPECIES	Tree	9	42.9%	Tree	0	0.0%
21 Total Species	Shrub	0	0.0%	Shrub	1	4.8%
2.7 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.9 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
10.3 NATIVE FQI	P-Forb	4	19.0%	P-Forb	2	9.5%
8.7 W/Adventives	B-Forb	0	0.0%	B-Forb	1	4.8%
-1.1 NATIVE MEAN W	A-Forb	2	9.5%	A-Forb	0	0.0%
-0.2 W/Adventives	P-Grass	0	0.0%	P-Grass	2	9.5%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0	Acer negundo	-2	FACW-	Nt Tree	BOX ELDER
ACESAI	0	Acersaccharinum	-3	FACW	Nt Tree	SILVER MAPLE
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
GEULAT	2	Geum laciniatum trichocarpum	-3	FACW	Nt P-Forb	ROUGH AVENS
JUGNIG	5	Juglans nigra	3	FACU	Nt Tree	BLACK WALNUT
LONTAT	0	LONICERA TATARICA	5	[UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad P-Grass	REED CANARY GRASS
PLARUG	0	Plantago rugelii	0	FAC	Nt A-Forb	RED-STALKED PLANTAIN
POAPRA	0	POA PRATENSIS	1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POPDEL	2	Populus deltoides	-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1	Prunus serotina	3	FACU	Nt Tree	WILD BLACK CHERRY
QUEALB	5	Quercus alba	0	FAC	Nt Tree	WHITE OAK
QUEBIC	6	Quercus bicolor	-4	FACW+	Nt Tree	SWAMP WHITE OAK
QUEPAU	8	Quercus palustris	-3	FACW	Nt Tree	PIN OAK
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD
SOLGRG	4	Solidago graminifolia	-2	FACW-	Nt P-Forb	COMMON GRASS-LEAVED
GOLDENROD						
SONULI	0	SONCHUS ULIGINOSUS	1	FAC-	Ad P-Forb	COMMON SOW THISTLE
TRIPRA	0	TRIFOLIUM PRATENSE	5	UPL	Ad P-Forb	RED CLOVER
ULMAME	3	Ulmus americana	-2	FACW-	Nt Tree	AMERICAN ELM

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
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Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Point is at west edge of drainage corridor south of Bult field.																																																																		
VEGETATION																																																																								
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Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																								
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Remarks: Hydric soils are present. Buried horizon of 10YR 2/1 corresponds to mapped Ashkum unit																																																																								
WETLAND DETERMINATION																																																																								
Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																			
Remarks: This plot is located in a wetland.																																																																								

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. West						Date: 10/01/08 County: Will State: Illinois Community ID: Upland Station ID: W01SE-7 Plot ID: S2																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: Point 100ft south of wetland point (150-200ft south of stream channel)																																																																		
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Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? _____ Yes <input checked="" type="checkbox"/> No																																																																								
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Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Remarks: tiled, grassed waterway				
VEGETATION										
Dominant Species (50/20 Rule)										
	<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>			<u>Species Name</u>	<u>Ind. Status</u>	<u>Stratum</u>	<u>% Cover</u>
1.	<i>Festuca elatior</i>	FACU+	HERB	25		7.	--	--	--	--
2.	<i>Poa compressa</i>	FACU+	HERB	45		8.	--	--	--	--
3.	<i>Agropyron repens</i>	FACU	HERB	30		9.	--	--	--	--
4.	--	--	--	--		10.	--	--	--	--
5.	--	--	--	--		11.	--	--	--	--
6.	--	--	--	--		12.	--	--	--	--
Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-):						0%				
Remarks: Hydrophytic vegetation not dominant.										
HYDROLOGY										
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Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: 10 (in.) Depth to Saturated Soil: NA (in.)					Remarks: Wetland hydrology present; core taken after heavy rains. Aerial photos used for NRCS slide review.					
SOILS										
Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded						Series Drainage Class: Moderately well drained				
Taxonomy (Subgroup): Oxyaquic Hapludalfs						Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:										
Top	Bottom		Matrix Color	Mottle Colors	Mottle	Texture, moisture, consistency, organic material, and other soil characteristics.				
Depth	Depth	Horizon	(Munsell Moist):	(Munsell Moist):	Abundance/Contrast					
0	4	Ap	10YR 2/1	NA NA	NA NA	silt loam, moist, friable				
4	11	A	2.5Y 3/2	10YR 4/4	common distinct	silty clay, moist firm				
11	19	B	2.5Y 3.5/1.5	10YR 4/6	common prominent many prominent	silty clay, moist, firm				
19	20	B2	10Y 5/1	10YR 4/6	common prominent common prominent	silty clay, moist, firm				
Hydric Soil Indicators:						Indicators for Problematic Hydric Soils1:				
_____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat						_____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix <input checked="" type="checkbox"/> (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions				
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Remarks: Hydric soils are present										
WETLAND DETERMINATION										
Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Remarks: This plot is not located in wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so hydric soil indicators found are likely relict and indicative of pre-tile conditions. Wetland hydrology was evident, but it had recently rained. If wetland hydrology existed for prolonged periods during the growing season, it is expected that hydrophytic vegetation would be dominant, but it is not.										

Site: Inaugural South Suburban Airport
Locale: W01SE10
Date: September 22, 2008 30 minutes
By: AECOM; T. Radke; R. Page
File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W01SE10.inv

FLORISTIC QUALITY DATA	Native	3	37.5%	Adventive	5	62.5%
3 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
8 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
1.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.4 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
1.7 NATIVE FQI	P-Forb	1	12.5%	P-Forb	0	0.0%
1.1 W/Adventives	B-Forb	0	0.0%	B-Forb	1	12.5%
-4.0 NATIVE MEAN W	A-Forb	1	12.5%	A-Forb	0	0.0%
-1.5 W/Adventives	P-Grass	0	0.0%	P-Grass	3	37.5%
AVG: Fac. Wetland (+)	A-Grass	1	12.5%	A-Grass	1	12.5%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
FESELA	0 FESTUCA ELATIOR	2 FACU+	Ad P-Grass	TALL FESCUE
LACSER	0 LACTUCA SERRIOLA	0 FAC	Ad B-Forb	PRICKLY LETTUCE
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport						Date: 09/22/08																																																																		
Applicant/Owner: Illinois Department of Transportation						County: Will																																																																		
Investigator #1: Teri Radke #2: Robert Page						State: Illinois																																																																		
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Community ID: PEM																																																																		
Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Station ID: W01SE-10																																																																		
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)						Plot ID: S2																																																																		
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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. Page						Date: 09/24/08 County: Will State: Illinois Community ID: Upland Station ID: W01SE-11 Plot ID: NA																																																																		
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Remarks: Old field/pasture near old apple orchard. No wetland vegetation or hydrology present, so no soil core taken.																																																																								
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SOILS																																																																								
Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core collected Yes <input type="checkbox"/> No <input type="checkbox"/>																																																																								
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Project/Site: South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: R. West						Date: 09/25/08 County: Will State: Illinois Community ID: Upland Station ID: W01SE-12 Plot ID: SC-1																																																											
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<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)					Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)																																																												
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Site: SSA Inaugural Delineation
Locale: W01SE13
Date: September 26, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE13.inv

FLORISTIC QUALITY DATA		Native	22	78.6%	Adventive	6	21.4%
22	NATIVE SPECIES	Tree	1	3.6%	Tree	0	0.0%
28	Total Species	Shrub	2	7.1%	Shrub	1	3.6%
2.4	NATIVE MEAN C	W-Vine	2	7.1%	W-Vine	0	0.0%
1.9	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
11.1	NATIVE FQI	P-Forb	15	53.6%	P-Forb	0	0.0%
9.8	W/Adventives	B-Forb	0	0.0%	B-Forb	1	3.6%
-0.1	NATIVE MEAN W	A-Forb	2	7.1%	A-Forb	0	0.0%
0.3	W/Adventives	P-Grass	0	0.0%	P-Grass	4	14.3%
AVG: Faculative		A-Grass	0	0.0%	A-Grass	0	0.0%
		P-Sedge	0	0.0%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOSIB	2	Apocynum sibiricum	-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASCSYR	0	Asclepias syriaca	5	UPL	Nt P-Forb	COMMON MILKWEED
ASTERI	5	Aster ericoides	4	FACU-	Nt P-Forb	HEATH ASTER
ASTNOV	4	Aster novae-angliae	-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTPIL	0	Aster pilosus	2	FACU+	Nt P-Forb	HAIRY ASTER
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BROINE	0	BROMUS INERMIS	5	UPL	Ad P-Grass	HUNGARIAN BROME
CORSTO	6	Cornus stolonifera	-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ELAUMB	0	ELAEAGNUS UMBELLATA	5	UPL	Ad Shrub	AUTUMN OLIVE
EPICOL	3	Epilobium coloratum	-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
EUPSEM	0	Eupatorium serotinum	-1	FAC+	Nt P-Forb	LATE BONESET
GEULAT	2	Geum laciniatum trichocarpum	-3	FACW	Nt P-Forb	ROUGH AVENS
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad P-Grass	REED CANARY GRASS
PHLPRA	0	PHLEUM PRATENSE	3	FACU	Ad P-Grass	TIMOTHY
POTSIS	4	Potentilla simplex	4	FACU-	Nt P-Forb	COMMON CINQUEFOIL
PRUVLA	0	Prunella vulgaris lanceolata	3	[FACU]	Nt P-Forb	SELF HEAL
PRUSER	1	Prunus serotina	3	FACU	Nt Tree	WILD BLACK CHERRY
RHURAD	2	Rhus radicans	-1	FAC+	Nt W-Vine	POISON IVY
RORPAF	4	Rorippa palustris fernaldiana	-5	OBL	Nt A-Forb	MARSH CRESS
RUBALL	3	Rubus allegheniensis	2	FACU+	Nt Shrub	COMMON BLACKBERRY
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD
SOLGRG	4	Solidago graminifolia	-2	FACW-	Nt P-Forb	COMMON GRASS-LEAVED

GOLDENROD					
SOLNEM	4	Solidago nemoralis	5	UPL	Nt P-Forb OLD-FIELD GOLDENROD
VITRIP	2	Vitis riparia	-2	FACW-	Nt W-Vine RIVERBANK GRAPE

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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 60% Remarks: Hydrophytic vegetation is dominant.						HYDROLOGY <input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge Aerial Photos <input checked="" type="checkbox"/> Other (Describe in Remarks) <input type="checkbox"/> No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)																																																																									
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SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																															
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Site: SSA Inaugural Delineation
Locale: W01SE14
Date: September 25, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W01SE14.inv

FLORISTIC QUALITY DATA	Native	27	87.1%	Adventive	4	12.9%
27 NATIVE SPECIES	Tree	7	22.6%	Tree	0	0.0%
31 Total Species	Shrub	3	9.7%	Shrub	1	3.2%
3.1 NATIVE MEAN C	W-Vine	1	3.2%	W-Vine	0	0.0%
2.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
16.2 NATIVE FQI	P-Forb	12	38.7%	P-Forb	0	0.0%
15.1 W/Adventives	B-Forb	0	0.0%	B-Forb	1	3.2%
-0.3 NATIVE MEAN W	A-Forb	3	9.7%	A-Forb	0	0.0%
0.0 W/Adventives	P-Grass	1	3.2%	P-Grass	2	6.5%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
ALISUB	4	Alisma subcordatum	-5	OBL	Nt P-Forb	COMMON WATER PLANTAIN
AMBARE	0	Ambrosia artemisiifolia elatior	3	FACU	Nt A-Forb	COMMON RAGWEED
ANDGER	5	Andropogon gerardii	1	FAC-	Nt P-Grass	BIG BLUESTEM GRASS
ASTNOV	4	Aster novae-angliae	-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1	Bidens frondosa	-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CORSTO	6	Cornus stolonifera	-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
CRAMOL	2	Crataegus mollis	4	FACU-	Nt Tree	DOWNY HAWTHORN
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
FRAVIR	1	Fragaria virginiana	1	FAC-	Nt P-Forb	WILD STRAWBERRY
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4	Juncus dudleyi	0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
LONTAT	0	LONICERA TATARICA	5	[UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
POACOM	0	POA COMPRESSA	2	FACU+	Ad P-Grass	CANADA BLUE GRASS
POLSAN	6	Polygala sanguinea	3	FACU	Nt A-Forb	FIELD MILKWORT
POPDEL	2	Populus deltoides	-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1	Prunus serotina	3	FACU	Nt Tree	WILD BLACK CHERRY
QUEMAC	5	Quercus macrocarpa	1	FAC-	Nt Tree	BUR OAK
QUEPAU	8	Quercus palustris	-3	FACW	Nt Tree	PIN OAK
RHURAD	2	Rhus radicans	-1	FAC+	Nt W-Vine	POISON IVY
RUBALL	3	Rubus allegheniensis	2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUDHIR	1	Rudbeckia hirta	3	FACU	Nt P-Forb	BLACK-EYED SUSAN
SALAMY	5	Salix amygdaloides	-3	FACW	Nt Tree	PEACH-LEAVED WILLOW
SALINT	1	Salix interior	-5	OBL	Nt Shrub	SANDBAR WILLOW
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD

SOLGRG	4	Solidago graminifolia	-2	FACW-	Nt	P-Forb	COMMON GRASS-LEAVED
GOLDENROD							
SOLJUN	5	Solidago juncea	5	UPL	Nt	P-Forb	EARLY GOLDENROD
SOLNEM	4	Solidago nemoralis	5	UPL	Nt	P-Forb	OLD-FIELD GOLDENROD
TYPANG	1	Typha angustifolia	-5	OBL	Nt	P-Forb	NARROW-LEAVED CATTAIL
ULMAME	3	Ulmus americana	-2	FACW-	Nt	Tree	AMERICAN ELM

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Site: Inaugural South Suburban Airport
Locale: W01SW1
Date: September 11, 2008 30 minutes
September 9, 2008 30 minutes
By: AECOM; A. Amelse; M. Hildreth; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W01SW1.inv

FLORISTIC QUALITY DATA	Native	19	76.0%	Adventive	6	24.0%
19 NATIVE SPECIES	Tree	3	12.0%	Tree	0	0.0%
25 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
2.4 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	1	4.0%
1.8 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
10.3 NATIVE FQI	P-Forb	7	28.0%	P-Forb	0	0.0%
9.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.2 NATIVE MEAN W	A-Forb	4	16.0%	A-Forb	1	4.0%
-1.0 W/Adventives	P-Grass	1	4.0%	P-Grass	2	8.0%
AVG: Faculative (+)	A-Grass	1	4.0%	A-Grass	2	8.0%
	P-Sedge	2	8.0%	P-Sedge	0	0.0%
	A-Sedge	1	4.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0	ABUTILON THEOPHRASTI	4	FACU-	Ad A-Forb	VELVETLEAF
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
AMBARE	0	Ambrosia artemisiifolia elatior	3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOCAN	4	Apocynum cannabinum	0	FAC	Nt P-Forb	INDIAN HEMP
BIDCER	5	Bidens cernua	-5	OBL	Nt A-Forb	NODDING BUR MARIGOLD
CXCRIS	4	Carex cristatella	-4	FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CXVULP	2	Carex vulpinoidea	-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
ECHCRU	0	Echinochloa crusgalli	-3	FACW	Nt A-Grass	BARNYARD GRASS
ELEOBT	3	Eleocharis obtusa	-5	OBL	Nt A-Sedge	BLUNT SPIKE RUSH
FRAPES	1	Fraxinus pennsylvanica subintegerrima	0	FAC	Nt Tree	GREEN ASH
GEUCAN	1	Geum canadense	0	FAC	Nt P-Forb	WOOD AVENS
JUNDUD	4	Juncus dudleyi	0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
JUNTEN	0	Juncus tenuis	2	[FACU+]	Nt P-Forb	PATH RUSH
PANVIR	5	Panicum virgatum	-1	FAC+	Nt P-Grass	SWITCH GRASS
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad P-Grass	REED CANARY GRASS
PLAOCC	9	Platanus occidentalis	-3	FACW	Nt Tree	SYCAMORE
POLLAP	0	Polygonum lapathifolium	-4	FACW+	Nt A-Forb	HEARTSEASE
POPDEL	2	Populus deltoides	-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	0	Prunella vulgaris lanceolata	3	[FACU]	Nt P-Forb	SELF HEAL
SETFAB	0	SETARIA FABERI	2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0	SETARIA GLAUCA	0	FAC	Ad A-Grass	YELLOW FOXTAIL
SOLDUL	0	SOLANUM DULCAMARA	0	FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD
SOLGRG GOLDENROD	4	Solidago graminifolia	-2	FACW-	Nt P-Forb	COMMON GRASS-LEAVED

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Remarks: This plot is not located in a wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology has been impacted by tiles and construction activities on adjacent parcel. The hydric soil indicators found are likely relict and indicative of historic conditions since hydrophytic vegetation is not dominant and wetland hydrology is not present.																																																																					

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Hydric Soil Indicators: <table style="width: 100%;"> <tr> <td style="width: 33%;"> <input type="checkbox"/> (A1) Histosol <input type="checkbox"/> (A2) Histic Epipedon <input type="checkbox"/> (A3) Black Histic <input type="checkbox"/> (A4) Hydrogen Sulfide <input type="checkbox"/> (A5) Stratified Layers <input type="checkbox"/> (A10) 2 cm Muck <input type="checkbox"/> (A11) Depleted Below Dark Surface <input type="checkbox"/> (A12) Thick Dark Surface <input type="checkbox"/> (S1) Sandy Mucky Mineral <input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat </td> <td style="width: 33%;"> <input type="checkbox"/> (S4) Sandy Gleyed Matrix <input type="checkbox"/> (S5) Sandy Redox <input type="checkbox"/> (S6) Stripped Matrix <input type="checkbox"/> (F1) Loamy Mucky Mineral <input type="checkbox"/> (F2) Loamy Gleyed Matrix <input type="checkbox"/> (F3) Depleted Matrix <input type="checkbox"/> (F6) Redox Dark Surface <input type="checkbox"/> (F7) Depleted Dark Surface <input type="checkbox"/> (F8) Redox Depressions </td> <td style="width: 33%;"> <input type="checkbox"/> (A16) Coast Prairie Redox <input type="checkbox"/> (F12) Iron-Manganese Masses <input type="checkbox"/> Other (Explain in Remarks) </td> </tr> </table>						<input type="checkbox"/> (A1) Histosol <input type="checkbox"/> (A2) Histic Epipedon <input type="checkbox"/> (A3) Black Histic <input type="checkbox"/> (A4) Hydrogen Sulfide <input type="checkbox"/> (A5) Stratified Layers <input type="checkbox"/> (A10) 2 cm Muck <input type="checkbox"/> (A11) Depleted Below Dark Surface <input type="checkbox"/> (A12) Thick Dark Surface <input type="checkbox"/> (S1) Sandy Mucky Mineral <input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat	<input type="checkbox"/> (S4) Sandy Gleyed Matrix <input type="checkbox"/> (S5) Sandy Redox <input type="checkbox"/> (S6) Stripped Matrix <input type="checkbox"/> (F1) Loamy Mucky Mineral <input type="checkbox"/> (F2) Loamy Gleyed Matrix <input type="checkbox"/> (F3) Depleted Matrix <input type="checkbox"/> (F6) Redox Dark Surface <input type="checkbox"/> (F7) Depleted Dark Surface <input type="checkbox"/> (F8) Redox Depressions	<input type="checkbox"/> (A16) Coast Prairie Redox <input type="checkbox"/> (F12) Iron-Manganese Masses <input type="checkbox"/> Other (Explain in Remarks)	Indicators for Problematic Hydric Soils1: 1Indicators of hydrophytic vegetation and wetland hydrology must be present.																																																											
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Remarks: Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken.																																																																				
WETLAND DETERMINATION Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Remarks: This plot is not located in a wetland. *No soil core taken.																																																																				

Site: Inaugural South Suburban Airport
Locale: W01SW4a
Date: September 23, 2008 1 hours
By: AECOM:T.Radke R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SW4a.inv

FLORISTIC QUALITY DATA	Native	18	69.2%	Adventive	8	30.8%
18 NATIVE SPECIES	Tree	1	3.8%	Tree	2	7.7%
26 Total Species	Shrub	2	7.7%	Shrub	0	0.0%
2.5 NATIVE MEAN C	W-Vine	2	7.7%	W-Vine	0	0.0%
1.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
10.6 NATIVE FQI	P-Forb	9	34.6%	P-Forb	1	3.8%
8.8 W/Adventives	B-Forb	0	0.0%	B-Forb	1	3.8%
-1.5 NATIVE MEAN W	A-Forb	2	7.7%	A-Forb	0	0.0%
-1.0 W/Adventives	P-Grass	1	3.8%	P-Grass	4	15.4%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	1	3.8%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
ANDGER	5	Andropogon gerardii	1	FAC-	Nt P-Grass	BIG BLUESTEM GRASS
APOSIB	2	Apocynum sibiricum	-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASCSYR	0	Asclepias syriaca	5	UPL	Nt P-Forb	COMMON MILKWEED
ASTNOV	4	Aster novae-angliae	-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BIDCON	5	Bidens connata	-5	OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1	Bidens frondosa	-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CXVULP	2	Carex vulpinoidea	-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
FESELA	0	FESTUCA ELATIOR	2	FACU+	Ad P-Grass	TALL FESCUE
FRAPES	1	Fraxinus pennsylvanica subintegerrima	0	FAC	Nt Tree	GREEN ASH
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
IRIVIS	5	Iris virginica shrevei	-5	OBL	Nt P-Forb	BLUE FLAG
MORALB	0	MORUS ALBA	0	FAC	Ad Tree	WHITE MULBERRY
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad P-Grass	REED CANARY GRASS
POAPRA	0	POA PRATENSIS	1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
RHURAD	2	Rhus radicans	-1	FAC+	Nt W-Vine	POISON IVY
SALFRA	0	SALIX FRAGILIS	-1	FAC+	Ad Tree	CRACK WILLOW
SALINT	1	Salix interior	-5	OBL	Nt Shrub	SANDBAR WILLOW
SAMCAN	1	Sambucus canadensis	-2	FACW-	Nt Shrub	ELDERBERRY
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD
SOLGRG	4	Solidago graminifolia	-2	FACW-	Nt P-Forb	COMMON GRASS-LEAVED
GOLDENROD	4	Solidago nemoralis	5	UPL	Nt P-Forb	OLD-FIELD GOLDENROD
SOLNEM	4	Solidago nemoralis	5	UPL	Nt P-Forb	OLD-FIELD GOLDENROD
SONULI	0	SONCHUS ULIGINOSUS	1	FAC-	Ad P-Forb	COMMON SOW THISTLE
VITRIP	2	Vitis riparia	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																				
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robert Page						Date: 09/11/08 County: Will State: Illinois Community ID: PEM Station ID: W01SW-4a Plot ID: S1																																																														
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant.						HYDROLOGY <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.) </div> <div style="width: 50%;"> Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test _____ Other (Explain in Remarks) </div> </div>																																																														
Remarks: Wetland hydrology is present. NRCS Review																																																																				
SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																				
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WETLAND DETERMINATION Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Remarks: This plot is located in wetland.																																																																				

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robert Page	Date: 09/11/08 County: Will State: Illinois Community ID: Upland Station ID: W01SW-4a Plot ID: S2
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **This area is located in an old field/prairie community.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Festuca arundinacea</i>	FACU+	HERB	75		7. --	--	--	--
2. <i>Lactuca pulchella</i>	FAC	HERB	1		8. --	--	--	--
3. <i>Aster ericoides</i>	FACU-	HERB	15		9. --	--	--	--
4. <i>ELAEAGNUS UMBELLATA</i>	UPL	Shrub	20		10. --	--	--	--
5. <i>Melilotus alba</i>	FACU	HERB	5		11. --	--	--	--
6. <i>Daucus carota</i>	UPL	HERB	5		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **0%**

Remarks: **Hydrophytic vegetation is not dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is not present.**

SOILS

Map Unit Name: Ozaukee silt loam		Series Drainage Class: Moderately well drained					
Taxonomy (Subgroup): Oxyaquic Hapludalfs		Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Profile Description:							
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	
Depth	Depth						
0	8	A1	10YR 4/2	NA NA	NA NA	Silty clay; moist, firm	
8	21	A2	10YR 4/2	10YR 5/4 10YR 6/6	common many distinct prominent	clay; moist, very firm	

Hydric Soil Indicators²:

- _____ (A1) Histosol
- _____ (A2) Histic Epipedon
- _____ (A3) Black Histic
- _____ (A4) Hydrogen Sulfide
- _____ (A5) Stratified Layers
- _____ (A10) 2 cm Muck
- _____ (A11) Depleted Below Dark Surface
- _____ (A12) Thick Dark Surface
- _____ (S1) Sandy Mucky Mineral
- _____ (S3) 5 cm Mucky Peat or Peat

- _____ (S4) Sandy Gleyed Matrix
- _____ (S5) Sandy Redox
- _____ (S6) Stripped Matrix
- _____ (F1) Loamy Mucky Mineral
- _____ (F2) Loamy Gleyed Matrix
- _____ (F3) Depleted Matrix
- _____ (F6) Redox Dark Surface
- _____ (F7) Depleted Dark Surface
- _____ (F8) Redox Depressions

Indicators for Problematic Hydric Soils¹:

- _____ (A16) Coast Prairie Redox
- _____ (F12) Iron-Manganese Masses
- _____ Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are not present.**

Plot location at boundary of two mapped soil units, Ozaukee and Ashkum. Soil profile resembles Ozaukee

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---	---

Remarks: **This plot is not located in wetland.**

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robert Page	Date: 09/22/08 County: Will State: Illinois Community ID: PEM Station ID: W01SW-4a Plot ID: S3
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	

Remarks: **Plot next to tiled stream channel.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Phalaris arundinacea</i>	FACW+	HERB	75		7. --	--	--	--
2. <i>Helianthus grosseserratus</i>	FACW-	HERB	30		8. --	--	--	--
3. <i>Solidago altissima</i>	FACU	HERB	30		9. --	--	--	--
4. <i>Plantago rugelii</i>	FAC	HERB	1		10. --	--	--	--
5. <i>Daucus carota</i>	UPL	HERB	1		11. --	--	--	--
6. --	--	--	--		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **66%**

Remarks: **Hydrophytic vegetation is dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input checked="" type="checkbox"/> Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: 10 (in.) Depth to Saturated Soil: 10 (in.)	

Remarks: **Wetland hydrology is present.**

SOILS

Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly Drained									
Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
Profile Description:									
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.			
Depth	Depth								
0	10	A1	10YR 2/1	7.5YR 4/6	common few	silty clay loam; moist, friable			
10	22	A2	10YR 3/1	7.5YR 4/6	common distinct	sandy clay loam; wet, friable			

Hydric Soil Indicators ² : _____ (A1) Histosol _____ (A2) Histic Epipedon _____ (A3) Black Histic _____ (A4) Hydrogen Sulfide _____ (A5) Stratified Layers _____ (A10) 2 cm Muck _____ (A11) Depleted Below Dark Surface _____ (A12) Thick Dark Surface _____ (S1) Sandy Mucky Mineral _____ (S3) 5 cm Mucky Peat or Peat	Indicators for Problematic Hydric Soils ¹ : _____ (S4) Sandy Gleyed Matrix _____ (S5) Sandy Redox _____ (S6) Stripped Matrix _____ (F1) Loamy Mucky Mineral _____ (F2) Loamy Gleyed Matrix _____ (F3) Depleted Matrix <input checked="" type="checkbox"/> (F6) Redox Dark Surface _____ (F7) Depleted Dark Surface _____ (F8) Redox Depressions _____ (A16) Coast Prairie Redox _____ (F12) Iron-Manganese Masses _____ Other (Explain in Remarks)
--	---

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
---	---

Remarks: **This plot is located in wetland.**

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport	Date: 09/22/08
Applicant/Owner: Illinois Department of Transportation	County: Will
Investigator #1: Teri Radke #2: Robert Page	State: Illinois
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: PEM
Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Station ID: W01SW-4a
Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	Plot ID: S4

Remarks: **Plot next to tiled stream channel.**

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover
1. <i>Phalaris arundinacea</i>	FACW+	HERB	75	7. --	--	--	--
2. <i>Helianthus grosseserratus</i>	FACW-	HERB	30	8. --	--	--	--
3. <i>Solidago altissima</i>	FACU	HERB	30	9. --	--	--	--
4. <i>Plantago rugelii</i>	FAC	HERB	1	10. --	--	--	--
5. <i>Daucus carota</i>	UPL	HERB	1	11. --	--	--	--
6. --	--	--	--	12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **66%**

Remarks: **Hydrophytic vegetation is dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): <input checked="" type="checkbox"/> Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: 10 (in.) Depth to Saturated Soil: 10 (in.)	

Remarks: **Wetland hydrology is present.**

SOILS

Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes		Series Drainage Class: Poorly drained				
Taxonomy (Subgroup): Typic Endoaquolls		Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Profile Description:						
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.
Depth	Depth					
0	16	A1	10YR 3/1	10YR 4/6	few common	distinct faint silty clay loam; moist, friable
16	22	A2	10YR 2/1	10YR 4/6	common	distinct silty clay loam; wet, friable

Hydric Soil Indicators²:

- _____ (A1) Histosol
- _____ (A2) Histic Epipedon
- _____ (A3) Black Histic
- _____ (A4) Hydrogen Sulfide
- _____ (A5) Stratified Layers
- _____ (A10) 2 cm Muck
- _____ (A11) Depleted Below Dark Surface
- _____ (A12) Thick Dark Surface
- _____ (S1) Sandy Mucky Mineral
- _____ (S3) 5 cm Mucky Peat or Peat

- _____ (S4) Sandy Gleyed Matrix
- _____ (S5) Sandy Redox
- _____ (S6) Stripped Matrix
- _____ (F1) Loamy Mucky Mineral
- _____ (F2) Loamy Gleyed Matrix
- _____ (F3) Depleted Matrix
- ☒ (F6) Redox Dark Surface
- _____ (F7) Depleted Dark Surface
- _____ (F8) Redox Depressions

Indicators for Problematic Hydric Soils¹:

- _____ (A16) Coast Prairie Redox
- _____ (F12) Iron-Manganese Masses
- _____ Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soils are present.**

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Remarks: **This plot is located in a wetland.**

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robert Page	Date: 09/22/08 County: Will State: Illinois Community ID: Upland Station ID: W01SW-4a Plot ID: S5
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)	
Remarks: Plot next to tiled stream channel.	

VEGETATION

Dominant Species (50/20 Rule)

Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover
1. <i>Phalaris arundinacea</i>	FACW+	HERB	100		7. --	--	--	--
2. <i>Helianthus grosseserratus</i>	FACW-	HERB	20		8. --	--	--	--
3. --	--	--	--		9. --	--	--	--
4. --	--	--	--		10. --	--	--	--
5. --	--	--	--		11. --	--	--	--
6. --	--	--	--		12. --	--	--	--

Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): **100%**

Remarks: **Hydrophytic vegetation is dominant.**

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available	Wetland Hydrology Indicators: <input checked="" type="checkbox"/> None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: 20 (in.) Depth to Saturated Soil: NA (in.)	

Remarks: **Wetland hydrology is not present.**

SOILS

Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes		Series Drainage Class: Poorly drained					
Taxonomy (Subgroup): Typic Endoaquolls		Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Profile Description:							
Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	
Depth	Depth						
0	17	A1	10YR 3/1	10YR 5/6	few faint	silty clay; moist, friable	
17	20	A2	10YR 2/1	10YR 4/6	common distinct	silty clay loam; moist, friable	

Hydric Soil Indicators²:

- _____ (A1) Histosol
- _____ (A2) Histic Epipedon
- _____ (A3) Black Histic
- _____ (A4) Hydrogen Sulfide
- _____ (A5) Stratified Layers
- _____ (A10) 2 cm Muck
- _____ (A11) Depleted Below Dark Surface
- _____ (A12) Thick Dark Surface
- _____ (S1) Sandy Mucky Mineral
- _____ (S3) 5 cm Mucky Peat or Peat

- _____ (S4) Sandy Gleyed Matrix
- _____ (S5) Sandy Redox
- _____ (S6) Stripped Matrix
- _____ (F1) Loamy Mucky Mineral
- _____ (F2) Loamy Gleyed Matrix
- _____ (F3) Depleted Matrix
- _____ (F6) Redox Dark Surface
- _____ (F7) Depleted Dark Surface
- _____ (F8) Redox Depressions

Indicators for Problematic Hydric Soils¹:

- _____ (A16) Coast Prairie Redox
- _____ (F12) Iron-Manganese Masses
- _____ Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present.

²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006)

Remarks: **Hydric soil indicators not present**
buried horizon

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is This Sampling Point Within A Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Remarks: **This plot is not located in a wetland.**

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																	
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. Page						Date: 09/23/08 County: Will State: Illinois Community ID: Upland Station ID: W01SW-4a Plot ID: S6																																																											
Do Normal Circumstances Exist On The Site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Site Significantly Disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is The Area A Potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, define below.)																																																																	
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0%						Remarks: Hydrophytic vegetation is not dominant.																																																											
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant.						HYDROLOGY <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, Or Tide Gauge <input checked="" type="checkbox"/> Aerial Photos _____ Other (Describe in Remarks) _____ No Recorded Data Available Field Observations: Depth of Surface Water: NA (in.) Depth to Free Water: NA (in.) Depth to Saturated Soil: NA (in.) </div> <div style="width: 50%;"> Wetland Hydrology Indicators: _____ None Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): _____ Oxidized Root Channels In Upper 12 Inches _____ Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test _____ Other (Explain in Remarks) </div> </div>																																																														
Remarks: Wetland hydrology is present.																																																																				
SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																				
Profile Description: <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 5%;">Top Depth</th> <th style="width: 5%;">Bottom Depth</th> <th style="width: 10%;">Horizon</th> <th style="width: 10%;">Matrix Color (Munsell Moist):</th> <th style="width: 10%;">Mottle Colors (Munsell Moist):</th> <th style="width: 10%;">Mottle Abundance/Contrast</th> <th style="width: 50%;">Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>8</td> <td>A</td> <td>10YR 2.5/1</td> <td>10YR 4/6</td> <td>few distinct</td> <td>Silty clay; moist, friable, rooty;</td> </tr> <tr> <td>8</td> <td>13</td> <td>A2</td> <td>10YR 2/1</td> <td>10YR 5/6</td> <td>common distinct</td> <td>Silty clay; moist, friable</td> </tr> <tr> <td>13</td> <td>20</td> <td>A3</td> <td>10YR 3/2</td> <td>10YR 5/3</td> <td>common prominent</td> <td>Silty clay; moist, firm</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										Top Depth	Bottom Depth	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.	0	8	A	10YR 2.5/1	10YR 4/6	few distinct	Silty clay; moist, friable, rooty;	8	13	A2	10YR 2/1	10YR 5/6	common distinct	Silty clay; moist, friable	13	20	A3	10YR 3/2	10YR 5/3	common prominent	Silty clay; moist, firm																															
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WETLAND DETERMINATION Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is This Sampling Point Within A Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																				
Remarks: This plot is located in wetland.																																																																				

Site: Inaugural South Suburban Airport
Locale: W01SW4b
Date: September 23, 2008 1 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SW4b.inv

FLORISTIC QUALITY DATA		Native	8	53.3%	Adventive	7	46.7%
8	NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
15	Total Species	Shrub	2	13.3%	Shrub	0	0.0%
1.6	NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.9	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
4.6	NATIVE FQI	P-Forb	4	26.7%	P-Forb	0	0.0%
3.4	W/Adventives	B-Forb	0	0.0%	B-Forb	2	13.3%
-0.1	NATIVE MEAN W	A-Forb	1	6.7%	A-Forb	0	0.0%
1.0	W/Adventives	P-Grass	0	0.0%	P-Grass	5	33.3%
AVG:	Faculative	A-Grass	0	0.0%	A-Grass	0	0.0%
		P-Sedge	1	6.7%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASCSYR	0	Asclepias syriaca	5	UPL	Nt P-Forb	COMMON MILKWEED
ASTSIS	3	Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
BROINE	0	BROMUS INERMIS	5	UPL	Ad P-Grass	HUNGARIAN BROME
CXVULP	2	Carex vulpinoidea	-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
FESELA	0	FESTUCA ELATIOR	2	FACU+	Ad P-Grass	TALL FESCUE
MELALB	0	MELILOTUS ALBA	3	FACU	Ad B-Forb	WHITE SWEET CLOVER
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad P-Grass	REED CANARY GRASS
PHLPRA	0	PHLEUM PRATENSE	3	FACU	Ad P-Grass	TIMOTHY
PHYHET	3	Physalis heterophylla	5	UPL	Nt P-Forb	CLAMMY GROUND CHERRY
POACOM	0	POA COMPRESSA	2	FACU+	Ad P-Grass	CANADA BLUE GRASS
RUBALL	3	Rubus allegheniensis	2	FACU+	Nt Shrub	COMMON BLACKBERRY
SALINT	1	Salix interior	-5	OBL	Nt Shrub	SANDBAR WILLOW
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																																								
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. Page						Date: 09/23/08 County: Will State: Illinois Community ID: PSS/PEM Station ID: W01SW-4b Plot ID: S1																																																																		
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VEGETATION																																																																								
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Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 75% Remarks: Willow thicket dominates drainageway; Hydrophytic vegetation is dominant in channel.																																																																								
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Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																								
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Remarks: Tile drainage removes water from site; hydrophytic vegetation appears only at lowest point in drainageway.																																																																								

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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. Page						Date: 09/23/08 County: Will State: Illinois Community ID: Upland Station ID: W01SW-4b Plot ID: S2																																																																		
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6. <i>Dactylis glomerata</i>	FACU	HERB	5		12. --	--	--	--																																																																
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Remarks: Soil does not meet criteria for hydric soils. Many concretions starting at 10"																																																																								
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Remarks: This plot is not located in a wetland. Hydric soils are apparently relics of a time before tile drainage. Water appears to move through area, but does not remain long enough for hydrophytic vegetation to become dominant.																																																																								

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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Matt Hildreth						Date: 09/10/08 County: Will State: Illinois Community ID: Upland Station ID: W01SW-5 Plot ID: S1																																																									
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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Matt Hildreth						Date: 09/10/08 County: Will State: Illinois Community ID: Upland Station ID: W01SW-6 Plot ID: S1																																																														
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VEGETATION Dominant Species (50/20 Rule) <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 15%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 15%;"></th> <th style="width: 15%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr> <td>1. <i>Ambrosia artemisiifolia</i></td> <td>FACU</td> <td>HERB</td> <td>--</td> <td></td> <td>7. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>2. <i>Ambrosia trifida</i></td> <td>FAC+</td> <td>HERB</td> <td>--</td> <td></td> <td>8. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>3. <i>Glycine max</i></td> <td>UPL</td> <td>HERB</td> <td>--</td> <td></td> <td>9. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>4. <i>Festuca pratensis</i></td> <td>FACU-</td> <td>HERB</td> <td>--</td> <td></td> <td>10. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>5. --</td> <td>--</td> <td>--</td> <td>--</td> <td></td> <td>11. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>6. --</td> <td>--</td> <td>--</td> <td>--</td> <td></td> <td>12. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover		Species Name	Ind. Status	Stratum	% Cover	1. <i>Ambrosia artemisiifolia</i>	FACU	HERB	--		7. --	--	--	--	2. <i>Ambrosia trifida</i>	FAC+	HERB	--		8. --	--	--	--	3. <i>Glycine max</i>	UPL	HERB	--		9. --	--	--	--	4. <i>Festuca pratensis</i>	FACU-	HERB	--		10. --	--	--	--	5. --	--	--	--		11. --	--	--	--	6. --	--	--	--	
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SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken Yes <input type="checkbox"/> No <input type="checkbox"/>																																																																				
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Site: Inaugural South Suburban Airport
Locale: W01SW8
Date: September 23, 2008 1 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SW8.inv

FLORISTIC QUALITY DATA		Native	1	12.5%	Adventive	7	87.5%
1	NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
8	Total Species	Shrub	0	0.0%	Shrub	0	0.0%
2.0	NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.3	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
2.0	NATIVE FQI	P-Forb	0	0.0%	P-Forb	1	12.5%
0.7	W/Adventives	B-Forb	0	0.0%	B-Forb	1	12.5%
-5.0	NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
0.3	W/Adventives	P-Grass	0	0.0%	P-Grass	5	62.5%
AVG: Obl. Wetland		A-Grass	0	0.0%	A-Grass	0	0.0%
		P-Sedge	1	12.5%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			
ACRONYM	C	SCIENTIFIC NAME			W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRREP	0	AGROPYRON REPENS			3 FACU	Ad P-Grass	QUACK GRASS
AGRALA	0	AGROSTIS ALBA			-3 FACW	Ad P-Grass	REDTOP
BROINE	0	BROMUS INERMIS			5 UPL	Ad P-Grass	HUNGARIAN BROME
CXVULP	2	Carex vulpinoidea			-5 OBL	Nt P-Sedge	BROWN FOX SEDGE
DAUCAR	0	DAUCUS CAROTA			5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
FESELA	0	FESTUCA ELATIOR			2 FACU+	Ad P-Grass	TALL FESCUE
PHAARU	0	PHALARIS ARUNDINACEA			-4 FACW+	Ad P-Grass	REED CANARY GRASS
RUMCRI	0	RUMEX CRISPUS			-1 FAC+	Ad P-Forb	CURLY DOCK

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Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. Page						Date: 09/23/08 County: Will State: Illinois Community ID: PEM Station ID: W01SW-8 Plot ID: S2																																																														
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Site: Inaugural South Suburban Airport
 Locale: W01SW10
 Date: September 25, 2008 30 minutes
 By: AECOM; A.Amelse; M. Hildreth
 File: c:\FQA\studies\SSA\Wetlands2008\Final4\W01SW10FQI.inv

FLORISTIC QUALITY DATA	Native	8	53.3%	Adventive	7	46.7%
8 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
15 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.9 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.5 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
2.5 NATIVE FQI	P-Forb	2	13.3%	P-Forb	3	20.0%
1.8 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.4 NATIVE MEAN W	A-Forb	3	20.0%	A-Forb	1	6.7%
-0.8 W/Adventives	P-Grass	0	0.0%	P-Grass	1	6.7%
AVG: Faculative (+)	A-Grass	3	20.0%	A-Grass	2	13.3%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBARE	0 Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
JUNTEN	0 Juncus tenuis	2 [FACU+]	Nt P-Forb	PATH RUSH
PANCAP	1 Panicum capillare	0 FAC	Nt A-Grass	OLD WITCH GRASS
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PLAMAJ	0 PLANTAGO MAJOR	-1 FAC+	Ad P-Forb	COMMON PLANTAIN
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
TRIHYP	0 TRIFOLIUM HYBRIDUM	1 FAC-	Ad P-Forb	ALSIKE CLOVER
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL

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Hydric Soil Indicators: <input type="checkbox"/> (A1) Histosol <input type="checkbox"/> (A2) Histic Epipedon <input type="checkbox"/> (A3) Black Histic <input type="checkbox"/> (A4) Hydrogen Sulfide <input type="checkbox"/> (A5) Stratified Layers <input type="checkbox"/> (A10) 2 cm Muck <input type="checkbox"/> (A11) Depleted Below Dark Surface <input type="checkbox"/> (A12) Thick Dark Surface <input type="checkbox"/> (S1) Sandy Mucky Mineral <input type="checkbox"/> (S3) 5 cm Mucky Peat or Peat					Indicators for Problematic Hydric Soils1: <input type="checkbox"/> (S4) Sandy Gleyed Matrix <input type="checkbox"/> (S5) Sandy Redox <input type="checkbox"/> (S6) Stripped Matrix <input type="checkbox"/> (F1) Loamy Mucky Mineral <input type="checkbox"/> (F2) Loamy Gleyed Matrix <input type="checkbox"/> (F3) Depleted Matrix <input type="checkbox"/> (F6) Redox Dark Surface <input type="checkbox"/> (F7) Depleted Dark Surface <input type="checkbox"/> (F8) Redox Depressions <input type="checkbox"/> (A16) Coast Prairie Redox <input type="checkbox"/> (F12) Iron-Manganese Masses <input type="checkbox"/> Other (Explain in Remarks)																																																																			
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Remarks: This plot is not located in a wetland. Area appears to have been disturbed by grading.																																																																								

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)																																																													
Project/Site: Inaugural South Suburban Airport Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Matt Hildreth						Date: 09/25/08 County: Will State: Illinois Community ID: Upland Station ID: W01NW-11 Plot ID: NA																																																							
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VEGETATION Dominant Species (50/20 Rule) <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> <th style="width: 30%;">Species Name</th> <th style="width: 10%;">Ind. Status</th> <th style="width: 10%;">Stratum</th> <th style="width: 10%;">% Cover</th> </tr> </thead> <tbody> <tr> <td>1. <i>Ambrosia artemisiifolia</i></td> <td>FACU</td> <td>HERB</td> <td>10</td> <td>7. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>2. <i>Trifolium hybridum</i></td> <td>FAC-</td> <td>HERB</td> <td>15</td> <td>8. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>3. <i>Trifolium pratense</i></td> <td>FACU+</td> <td>HERB</td> <td>5</td> <td>9. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>4. <i>Setaria faberi</i></td> <td>FACU+</td> <td>HERB</td> <td>15</td> <td>10. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>5. <i>Poa compressa</i></td> <td>FACU+</td> <td>HERB</td> <td>40</td> <td>11. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>6. <i>Agropyron repens</i></td> <td>FACU</td> <td>HERB</td> <td>15</td> <td>12. --</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>										Species Name	Ind. Status	Stratum	% Cover	Species Name	Ind. Status	Stratum	% Cover	1. <i>Ambrosia artemisiifolia</i>	FACU	HERB	10	7. --	--	--	--	2. <i>Trifolium hybridum</i>	FAC-	HERB	15	8. --	--	--	--	3. <i>Trifolium pratense</i>	FACU+	HERB	5	9. --	--	--	--	4. <i>Setaria faberi</i>	FACU+	HERB	15	10. --	--	--	--	5. <i>Poa compressa</i>	FACU+	HERB	40	11. --	--	--	--	6. <i>Agropyron repens</i>	FACU	HERB	15
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SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core collected Yes <input type="checkbox"/> No <input type="checkbox"/>																																																													
Profile Description: <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.7em;"> <thead> <tr> <th style="width: 5%;">Top</th> <th style="width: 5%;">Bottom</th> <th style="width: 10%;">Horizon</th> <th style="width: 10%;">Matrix Color (Munsell Moist):</th> <th style="width: 10%;">Mottle Colors (Munsell Moist):</th> <th style="width: 10%;">Mottle Abundance/Contrast</th> <th style="width: 50%;">Texture, moisture, consistency, organic material, and other soil characteristics.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										Top	Bottom	Horizon	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle Abundance/Contrast	Texture, moisture, consistency, organic material, and other soil characteristics.																																													
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