Applicant/Owner_130 Environmental Park_LLC State_TX Sampling Point_T10-DP1	Project/Site: 130 Environmental Park		Citv/Cc	ounty: Lockha	rt/Caldwell	Sampling Dat	e: 07/10/2013
Investigator(s): Troegle, Josh & Littleton, Brandyn Section, Township, Range: NA Landform (fillslope, terrace, etc.): Floodplain Local reliaf (concever, convex, none): None Slope (%): 0-1	-						
Landlarm (hillslope, terrace, ctc.) Floodplain Local relief (concave, convex, none) None Slope (%) 0-1 Subregion (LRR) J - Southwestern Prairies Lat: 29,97 Long - 97.65 Datum: NAD 63 Soil Map Unit Name: CTD3 - Crockett Soils, 3-8% slopes, severely eroded NWI classification: None available Are climatic hydrologic conditions on the site typical for this time of year? Yes	=						
Solit Map Unit Name: CrD3 - Crockett soils, 3-8% slopes, severely eroded NWI classification: None available							Clana (%)
Soil Map Unit Name: CrD3 - Crockett soils, 3-8% slopes, severely eroded Now classification: None available							
Are VegetationSoil or hydrologysignificantly disturbed?							
Are Vegetation	•				·	·	available
Summary Sol	Are climatic / hydrologic conditions on the site typical fo	r this time of ye	ar? Ye	es <u>√</u> No _	(If no, explain in R	emarks.)	
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Hydric Soil Present? Wetand Hydrology Present? Ves No Wetand? Ves No Wetand. Ves No Wetand. Ves No Wetand. Ves	Are Vegetation, Soil, or Hydrology	significantly	disturb	ed? Are	"Normal Circumstances" p	resent? Yes	✓ No
Hydrophytic Vegetation Present?	Are Vegetation, Soil, or Hydrology	naturally pro	blemat	tic? (If ne	eeded, explain any answe	rs in Remarks.)
Hydric Soil Present? Yes	SUMMARY OF FINDINGS – Attach site m	ap showing	sam	pling point l	ocations, transects	, important	features, etc.
Hydric Soil Present? Yes	Hydrophytic Vegetation Present? Yes	No √					
Welland Hydrology Present? Yes	Hydric Soil Present? Yes	No ✓		-		u ./	
VEGETATION - Use scientific names of plants.	Wetland Hydrology Present? Yes	No ✓		within a wetiai	na? Yes	No <u>*</u> _	_
Dominant Indicator							
Tree Stratum (Plot size: 30'							
Dominant Indicator							
Tree Stratum (Plot size: 30'							
Number of Dominant Species Status Status Species Status Status Species Status	VEGETATION – Use scientific names of p	lants.					
1. Quercus fusiformis 2. Ulmus crassifolia 3. Melia azedarach 4. Celtis laevigata 100 No FAC Sapling/Shrub Stratum (Plot size: 15') 1. Ulmus crassifolia 2 No FAC 3. Melia azedarach 30 Yes FAC 3. Melia azedarach 30 Yes FAC 3. Melia azedarach 30 Yes FAC 3. Ilex vomitoria 4. Celtis laevigata 30 Yes FAC 3. Ilex vomitoria 4. Celtis laevigata 30 Yes FAC 3. Ilex vomitoria 4. Celtis laevigata 30 Yes FAC 3. Ilex vomitoria 4. Celtis laevigata 4. Celtis laevigata 30 Yes FAC 3. Ilex vomitoria 4. Celtis laevigata 4. Celtis laevigata 30 Yes FAC 3. Ilex vomitoria 4. Celtis laevigata 30 Yes FAC 4. Celtis laevigata 4. Celtis laevigata 4. Celtis laevigata 30 Yes FAC 4. Celtis laevigata 5. Celtis laevigata 6. Celtis laevigata 7. Celtis laev	Tue Objective (District 30'				Dominance Test work	sheet:	
2 Ulmus crassifolia 25 No FACU			,				
3. Melia azedarach						3	(A)
A Celtis laevigata 10 No FAC Species Across All Stratum 7 (B)							
155						7	(B)
Sapiling/Shrub Stratum	4. Oction tuoriguita	155	- Tota	L Cover			(-)
1. Ulmus crassifolia 2 No FAC 2. Melia azedarach 30 Yes FACU 3. Ilex vomitoria 30 Yes FAC 4. — OBL species x 1 =	Sapling/Shrub Stratum (Plot size: 15')		~ 1018	II COVEI			(A/B)
2. Idea acceptance 30 Yes FAC Total % Cover of: Multiply by:		2	No	FAC			
A	2. Melia azedarach	30	Yes	FACU			
FACW species x 2 =	3. Ilex vomitoria	30	Yes	FAC		-	
Herb Stratum (Plot size: 5') 1. Elymus virginicus 75 Yes FAC	4						
Herb Stratum (Plot size: 5'	5				•		
1. Elymus virginicus	5'	62	= Tota	l Cover			
2. Eupatorium incarnatum 3. Ambrosia artemisiifolia 10 No FACU Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 7 -		75	Ves	FAC			
3. Ambrosia artemisiifolia 4							
4					Coldinii Totais.	—— (A) —	(В)
5					Prevalence Index	= B/A =	<u> </u>
6					Hydrophytic Vegetation	n Indicators:	
7					1 - Rapid Test for H	łydrophytic Ve	getation
8					I —		
9					3 - Prevalence Inde	x is ≤3.0 ¹	
10					4 - Morphological A	daptations¹ (P	rovide supporting
Woody Vine Stratum (Plot size: 30') 10 = Total Cover 1. Smilax bona-nox 40 Yes FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2							,
Woody Vine Stratum (Plot size: 30' 1 1 1 1 2 2 2 2 2 3 40 Yes FACU FACU 1 1 1 1 2 2 2 2 2 2			= Tota	al Cover	Problematic Hydrol	onytic vegetation	on (Explain)
2							
% Bare Ground in Herb Stratum 0	1. Smilax bona-nox	40	Yes	FACU	be present, unless distu	irbed or problei	matic.
% Bare Ground in Herb Stratum 0 Present? Yes Ves No	2						
		40	= Tota	al Cover	Vegetation	e√ No	
Religios.					, 1000.111.		
	remarks:						

SOIL Sampling Point: T10-DP1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Matrix (inches) Color (moist) Color (moist) % Type¹ Loc² Texture ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ___ Sandy Gleyed Matrix (S4) ___ 1 cm Muck (A9) (LRR I, J) Histosol (A1) ___ Sandy Redox (S5) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR F, G, H) Black Histic (A3) ___ Stripped Matrix (S6) ___ Dark Surface (S7) (LRR G) ___ Hydrogen Sulfide (A4) ___ Loamy Mucky Mineral (F1) High Plains Depressions (F16) ___ Stratified Layers (A5) (LRR F) ___ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) ___ 1 cm Muck (A9) (LRR F, G, H) ___ Depleted Matrix (F3) Reduced Vertic (F18) Depleted Below Dark Surface (A11) ___ Redox Dark Surface (F6) Red Parent Material (TF2) ___ Thick Dark Surface (A12) ___ Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) ___ Redox Depressions (F8) Other (Explain in Remarks) ___ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) 3Indicators of hydrophytic vegetation and ___ High Plains Depressions (F16) ___ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present. unless disturbed or problematic. Restrictive Layer (if present): Type: _ Depth (inches): **Hydric Soil Present?** Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) ___ High Water Table (A2) ___ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) ___ Saturation (A3) Hydrogen Sulfide Odor (C1) _ Drainage Patterns (B10) Water Marks (B1) ___ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) ___ Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) _ Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) ___ Iron Deposits (B5) Thin Muck Surface (C7) ✓ Geomorphic Position (D2) ___ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes ____ No / Depth (inches); ___ Surface Water Present? Water Table Present? Yes ____ No / Depth (inches): ____ Saturation Present? Wetland Hydrology Present? Yes ____ No ✓ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: 130 Environmental Park		City/C	ounty: Lockha	art/Caldwell	_ Sampling Date: 07/10/2013	
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T10-DP2	
Investigator(s): Troegle, Josh & Littleton, Brandyr						
J (,				ef (concave, convex, none): None Slope (%): 0-1		
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: MaA - Mabank loam, 0-1% sl					ication: None available	
Are climatic / hydrologic conditions on the site typical for the						
					remarks.) 'present? Yes ✓ No	
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology				eeded, explain any answ	"	
SUMMARY OF FINDINGS – Attach site map	showing	sam	pling point	locations, transect	s, important features, etc.	
Hydrophytic Vegetation Present? Yes	No ✓					
Hydric Soil Present? Yes			Is the Sample		/	
Wetland Hydrology Present? Yes	No ✓		within a Wetla	ind? Yes	No <u>√</u>	
Remarks:						
VECETATION . He a signific names of who						
VEGETATION – Use scientific names of pla		Dam	inant Indiantor	Daminana Tastura	-trabaat.	
Tree Stratum (Plot size: 30'	Absolute <u>% Cover</u>		inant Indicator cies? <u>Status</u>	Dominance Test work Number of Dominant		
1				That Are OBL, FACW		
2				(excluding FAC-):	<u>1</u> (A)	
3			 	. Total Number of Dom	inant	
4				Species Across All St	rata: 4 (B)	
Sapling/Shrub Stratum (Plot size: 15'		= Tota	al Cover	Percent of Dominant S		
1				That Are OBL, FACW	, or FAC: <u>25</u> (A/B)	
2				Prevalence Index wo	rksheet:	
3				Total % Cover of:	Multiply by:	
4					x 1 =	
5.				•	x 2 =	
		= Tota	al Cover	•	x 3 =	
Herb Stratum (Plot size: 5')	20	Von	FAC		x 4 =	
1. Elymus virginicus 2. Ambrosia artemisiifolia	$-\frac{20}{20}$	Yes Yes	FACU FACU	•	x 5 =	
3. Vernonia baldwinii	15	Yes	FACU	Column Totals:	(A) (B)	
4 Carex brevior		No	FAC	Prevalence Inde	x = B/A =	
5				Hydrophytic Vegetat	ion Indicators:	
6.				1 - Rapid Test for	Hydrophylic Vegetation	
7				2 - Dominance Te		
8.				3 - Prevalence Inc		
9				4 - Morphological	Adaptations ¹ (Provide supporting ks or on a separate sheet)	
10					ophytic Vegetation ¹ (Explain)	
30	60	= Tota	al Cover			
Woody Vine Stratum (Plot size: 30')	30	Yes	FACU		oil and wetland hydrology must turbed or problematic.	
				-		
2	30		-l Carron	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum			al Cover		es No <u> </u>	
Remarks:						
		44				

Sampling Point: T10-DP2 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) % Type¹ Loc² Texture 0 - 1010 YR 2/1 100 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: ___ Sandy Gleyed Matrix (S4) Histosol (A1) ___ 1 cm Muck (A9) (LRR I, J) ___ Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) ___ Black Histic (A3) ___ Stripped Matrix (S6) ___ Dark Surface (S7) (LRR G) ___ Hydrogen Sulfide (A4) __ High Plains Depressions (F16) ___ Loamy Mucky Mineral (F1) ___ Stratified Layers (A5) (LRR F) ___ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) ___ 1 cm Muck (A9) (LRR F, G, H) ___ Depleted Matrix (F3) Reduced Vertic (F18) ___ Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Red Parent Material (TF2) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) ___ Sandy Mucky Mineral (S1) ___ Redox Depressions (F8) Other (Explain in Remarks) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) ___ High Plains Depressions (F16) 3Indicators of hydrophytic vegetation and __ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: _ Depth (inches): Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) __ High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) ___ Hydrogen Sulfide Odor (C1) _ Drainage Patterns (B10) ___ Water Marks (B1) ___ Dry-Season Water Table (C2) __ Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) ___ Drift Deposits (B3) (where not tilled) __ Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) ✓ Geomorphic Position (D2) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ___ FAC-Neutral Test (D5) Water-Stained Leaves (B9) __ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes _____ No Yes ____ Depth (inches): _ Surface Water Present? Yes ____ No ✓ __ Depth (inches): _____ Water Table Present? Yes _____ No ✓ __ Depth (inches): Saturation Present? Wetland Hydrology Present? Yes No ✓ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

TRANSECT 10 SITE PHOTOGRAPHS



Data Point 1
Riparian Woods (Cedar Elm/Oak)



Data Point 1
Riparian Woods (Cedar Elm/Oak)



Data Point 2 Floodplain Meadows

T10 - Page 1

TRANSECT 10 SITE PHOTOGRAPHS



Data Point 2
Floodplain Meadows

Project/Site: 130 Environmental Park		Citv/Cr	ounty:	Lockha	rt/Caldwell_	Sampling	n Date: 06/	28/2013
Applicant/Owner: 130 Environmental Park, LLC		-		•	State: TX			
Investigator(s): Troegle, Josh & Boe, Brian						Oumpang	g i oiiit. <u></u>	
					convex, none): Convex		Clana /	9/). 5
Subregion (LRR): <u>J - Southwestern Prairies</u> Soil Map Unit Name: FeE - Fett gravelly soils, 1 to								
					NWI classifica			ible
Are climatic / hydrologic conditions on the site typical for the								
Are Vegetation, Soil, or Hydrology	significantly	disturb	bed?		"Normal Circumstances" pr			No
Are Vegetation, Soil, or Hydrology	naturally pro	blema	atic?	(If ne	eeded, explain any answers	s in Rem	arks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling	point l	ocations, transects,	impor	tant featu	ıres, etc.
H. J. E. Maretallar Brazanto	м/							
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No.▼		Is the	Sampled			,	
Wetland Hydrology Present? Yes	No ▼		within	a Wetlar	nd? Yes	No.	<u>√</u>	
Remarks:	110							
Upland wooded area on west side of study area.								
VEGETATION – Use scientific names of pla	nts.							
Tree Stratum (Plot size: 30'	Absolute			ndicator	Dominance Test works	heet:		
1. Quercus stellata	<u>% Cover</u> 60	Yes		ACU	Number of Dominant Sp. That Are OBL, FACW, o			
2. Ulmus crassifolia	10	No		AC	(excluding FAC-):	IFAC	1	(A)
3. Quercus marilandica	10	No	,	JPL	Total Number of Domina	un t	·	
4					Species Across All Strata		5	(B)
	80	= Tota	al Cove		Percent of Deminent Co.	nolos		,
Sapling/Shrub Stratum (Plot size: 15')					Percent of Dominant Spo That Are OBL, FACW, o		20	(A/B)
1. Ulmus crassifolia		Yes		FAC	Prevalence Index work	abaat.		
2. Juniperus virginiana	_ 5	No		JPL	Total % Cover of:		Multiply by	,
3. Mahonia trifoliolata		Yes		JPL	OBL species			
4. Prunus mexicana	<u>5</u>	No		JPL	FACW species			
5. Ilex decidua		No		AC	FAC species			
Herb Stratum (Plot size: 5'	33	= Tota	al Cove	ſ	FACU species			
1. Opuntia lindheimeri	5	Yes	Ţ	JPL	UPL species			
2.					Column Totals:			(B)
3.								
4					Prevalence Index			
5					Hydrophytic Vegetation			
6					1 - Rapid Test for Hy 2 - Dominance Test		c vegetation	ח
7					3 - Prevalence Index			
8					4 - Morphological Ad		o ¹ /Provide (oupporting.
9					data in Remarks			
10	_				Problematic Hydropl	hytic Veg	etation¹ (Ex	plain)
Woody Vine Stratum (Plot size: 30')	5	= Tota	al Cove	r	¹ Indicators of hydric soil	and wetts	and hydrolog	av muet
1 Smilax bona-nox	10	Yes	I	FACU	be present, unless distur	bed or pr	roblematic.	gy must
2.		****			Hydrophytic	_		
	10	= Tota	al Cove		Vegetation		,	
% Bare Ground in Herb Stratum 95	*				Present? Yes		No <u>√</u>	_
Remarks:								
Upland post oak woods. Hydrophytic vegetation o	riterion is n o	ot met.	t.					

Sampling Point: T11-DP1

C	\sim	П	1
J	u	ı	L

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) _ Surface Water (A1) _ Salt Crust (B11) _ Surface Soil Cracks (B6) _ High Water Table (A2) _ Aquatic Invertebrates (B13) _ Sparsely Vegetated Concave Surface (B8) _ Saturation (A3) _ Hydrogen Sulfide Odor (C1) _ Drainage Patterns (B10) _ Water Marks (B1) _ Dry-Season Water Table (C2) _ Oxidized Rhizospheres on Living Roots (C3) _ Sediment Deposits (B2) _ Oxidized Rhizospheres on Living Roots (C3) (where tilled) _ Crayfish Burrows (C8) _ Drift Deposits (B3) (where not tilled) _ Crayfish Burrows (C8) _ Saturation Visible on Aerial Imagery (C9) _ Iron Deposits (B5) _ Thin Muck Surface (C7) _ Geomorphic Position (D2) _ Inundation Visible on Aerial Imagery (B7) _ Other (Explain in Remarks) _ FAC-Neutral Test (D5) _ Water-Stained Leaves (B9) _ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (B7) _ Depth (inches): Water	Profile Description: (Desc	ribe to the d	epth need	led to document the indicator o	r confirm	the absence of	f indicators.)	
Tyge: C=Concentration, D=Degletion, RM=Reduced Matrix, CS=Covered or Costed Sand Grains. Tocation: Pt=Prore Lining, M=Matrix, Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: 1 orn Murk (A9) (LRR I, J) 1 orn Murk (A9) (LRR II, J) 1 orn Murk (A9) (LRR III, J) 1 orn Murk (A9) (LRR III, J) 1 orn Murk (A9) (LRR III, J)					. 2	- .		
Tyge. C=Concentration. D=Depletion, RM=Reduced Matrix, CS=Covered or Coaled Sand Craims. Tyge. C=Concentration. D=Depletion, RM=Reduced Matrix, CS=Covered or Coaled Sand Craims. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: 1 car Muck (49) (LRR I, J) Canal Strains (49) (LRR II, J) Canal Strains (49) (LRR II, J) Canal Strains (49) (LRR II, J) Canal Strains (49) (LRI II, J) Canal Strains (49) (LRI II, J) Canal Strains (49) (LRI II, J) Canal Strai				or (moist) % Type	Loc*		Remark	<u>S</u>
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosci (A1) Histosci (A1) Histosci (A2) Histosci (A2) Histosci (A2) Histosci (A3) Hydrogen Sudfide (A4) Straffied Layers (A6) (LRR F, G, H) Depleted Below Dark Surface (A11) Zonary Mucky Mineral (F1) Sandy Redox (A3) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F3) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Restrictive Layer (if present): Type: Hard pan Depth (Inches): 10 Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Weter Marks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Solidard Rivasopheres on Living Roots (C3) Where Inches Mineral (S4) Agal Mator Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B3) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Describe Recorded Data (stream gauge, monitoring well, aerial pholos, previous inspections), if available:	<u>0-10</u> <u>10 TR 6/3</u>		_			Sand	<u> </u>	
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosci (A1) Histosci (A1) Histosci (A2) Histosci (A2) Histosci (A2) Histosci (A3) Hydrogen Sudfide (A4) Straffied Layers (A6) (LRR F, G, H) Depleted Below Dark Surface (A11) Zonary Mucky Mineral (F1) Sandy Redox (A3) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F3) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Restrictive Layer (if present): Type: Hard pan Depth (Inches): 10 Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Weter Marks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Solidard Rivasopheres on Living Roots (C3) Where Inches Mineral (S4) Agal Mator Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B3) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Describe Recorded Data (stream gauge, monitoring well, aerial pholos, previous inspections), if available:			_					
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosci (A1) Histosci (A1) Histosci (A2) Histosci (A2) Histosci (A2) Histosci (A3) Hydrogen Sudfide (A4) Straffied Layers (A6) (LRR F, G, H) Depleted Below Dark Surface (A11) Zonary Mucky Mineral (F1) Sandy Redox (A3) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F3) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Restrictive Layer (if present): Type: Hard pan Depth (Inches): 10 Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Weter Marks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Solidard Rivasopheres on Living Roots (C3) Where Inches Mineral (S4) Agal Mator Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B3) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Describe Recorded Data (stream gauge, monitoring well, aerial pholos, previous inspections), if available:								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosci (A1) Histosci (A1) Histosci (A2) Histosci (A2) Histosci (A2) Histosci (A3) Hydrogen Sudfide (A4) Straffied Layers (A6) (LRR F, G, H) Depleted Below Dark Surface (A11) Zonary Mucky Mineral (F1) Sandy Redox (A3) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F3) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Restrictive Layer (if present): Type: Hard pan Depth (Inches): 10 Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Weter Marks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Solidard Rivasopheres on Living Roots (C3) Where Inches Mineral (S4) Agal Mator Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B3) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Describe Recorded Data (stream gauge, monitoring well, aerial pholos, previous inspections), if available:								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosci (A1) Histosci (A1) Histosci (A2) Histosci (A2) Histosci (A2) Histosci (A3) Hydrogen Sudfide (A4) Straffied Layers (A6) (LRR F, G, H) Depleted Below Dark Surface (A11) Zonary Mucky Mineral (F1) Sandy Redox (A3) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F3) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Restrictive Layer (if present): Type: Hard pan Depth (Inches): 10 Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Weter Marks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Solidard Rivasopheres on Living Roots (C3) Where Inches Mineral (S4) Agal Mator Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B3) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Describe Recorded Data (stream gauge, monitoring well, aerial pholos, previous inspections), if available:								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosci (A1) Histosci (A1) Histosci (A2) Histosci (A2) Histosci (A2) Histosci (A3) Hydrogen Sudfide (A4) Straffied Layers (A6) (LRR F, G, H) Depleted Below Dark Surface (A11) Zonary Mucky Mineral (F1) Sandy Redox (A3) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F3) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Restrictive Layer (if present): Type: Hard pan Depth (Inches): 10 Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Weter Marks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Solidard Rivasopheres on Living Roots (C3) Where Inches Mineral (S4) Agal Mator Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B3) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Describe Recorded Data (stream gauge, monitoring well, aerial pholos, previous inspections), if available:								<u> </u>
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosci (A1) Histosci (A1) Histosci (A2) Histosci (A2) Histosci (A2) Histosci (A3) Hydrogen Sudfide (A4) Straffied Layers (A6) (LRR F, G, H) Depleted Below Dark Surface (A11) Zonary Mucky Mineral (F1) Sandy Redox (A3) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F3) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Restrictive Layer (if present): Type: Hard pan Depth (Inches): 10 Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Weter Marks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Solidard Rivasopheres on Living Roots (C3) Where Inches Mineral (S4) Agal Mator Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B3) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Describe Recorded Data (stream gauge, monitoring well, aerial pholos, previous inspections), if available:								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosci (A1) Histosci (A1) Histosci (A2) Histosci (A2) Histosci (A2) Histosci (A3) Hydrogen Sudfide (A4) Straffied Layers (A6) (LRR F, G, H) Depleted Below Dark Surface (A11) Zonary Mucky Mineral (F1) Sandy Redox (A3) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F3) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Restrictive Layer (if present): Type: Hard pan Depth (Inches): 10 Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Weter Marks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Solidard Rivasopheres on Living Roots (C3) Where Inches Mineral (S4) Agal Mator Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B3) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Describe Recorded Data (stream gauge, monitoring well, aerial pholos, previous inspections), if available:								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosci (A1) Histosci (A1) Histosci (A2) Histosci (A2) Histosci (A2) Histosci (A3) Hydrogen Sudfide (A4) Straffied Layers (A6) (LRR F, G, H) Depleted Below Dark Surface (A11) Zonary Mucky Mineral (F1) Sandy Redox (A3) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F3) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Restrictive Layer (if present): Type: Hard pan Depth (Inches): 10 Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Weter Marks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Solidard Rivasopheres on Living Roots (C3) Where Inches Mineral (S4) Agal Mator Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B3) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Describe Recorded Data (stream gauge, monitoring well, aerial pholos, previous inspections), if available:								
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosci (A1) Histosci (A1) Histosci (A2) Histosci (A2) Histosci (A2) Histosci (A3) Hydrogen Sudfide (A4) Straffied Layers (A6) (LRR F, G, H) Depleted Below Dark Surface (A11) Zonary Mucky Mineral (F1) Sandy Redox (A3) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Zonary Gleyed Matrix (F3) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S3) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S2) Zonary Mucky Mineral (S3) Restrictive Layer (if present): Type: Hard pan Depth (Inches): 10 Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Weter Marks (B1) Depth (Inches): 10 Soli Cracks (B1) Depth (Inches): 10 Solidard Rivasopheres on Living Roots (C3) Where Inches Mineral (S4) Agal Mator Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B3) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Wetland Hydrology Present? Yes No Depth (Inches): 10 Describe Recorded Data (stream gauge, monitoring well, aerial pholos, previous inspections), if available:	¹ Type: C=Concentration Da	-Depletion R	– – – – M=Reduc	ed Matrix, CS=Covered or Coated	Sand Gra	aine ² l cont	lion: DI =Doro Lining	M-Motein
Histosel (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sondy Matrix (S4) Sandy Redox (S5) Sondy Matrix (S6) Sondy Matr					J Saliu Gia			
Histic Epipedon (A2) Sandy Redox (S5) Black Heisic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) (LRR F) Loamy Mucky Mineral (F2) High Plains Depressions (F16) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Pepleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Som Mucky Peat or Peat (S2) (LRR G, H) Be Pepleted Dark Surface (F7) Som Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Type: Hard pan Depth (inches): 10 No hydric soil indicators observed. Hydric Soil Present? Yes No ✓ Depth (inches):		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· ·			-	ic cons .
Black Histic (A3) Stripped Matrix (S6)	· · ·							RRFGH)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) (LRR F) Loamy Gleyed Matrix (F2) (LRR F)								, =,,
	Hydrogen Sulfide (A4)			Loamy Mucky Mineral (F1)				5)
Depleted Below Dark Surface (A11)	Stratified Layers (A5) (L	RR F)		Loamy Gleyed Matrix (F2)		(LRR	H outside of MLRA	72 & 73)
Thick Dark Surface (A12)							, ,	
Sandy Mucky Mineral (S1)								
2.5 cm Mucky Peat or Peat (S2) (LRR G, H)		•		· · · · · · · · · · · · · · · · · · ·				F12)
5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present):		-	C H/		C)		•	
Restrictive Layer (if present):			,					
Restrictive Layer (if present): Type: Hard pan Depth (inches): 10 No hydric soil indicators observed. Hydric Soil Present? Yes	o din Macky i dat of i de	100) (LICIT	7	(MERCA 12 & 13 OF ERRY)	•/			•
Type: Hard pan Depth (Inches):	Restrictive Layer (if presen	nt):				1	otarbea or problema	
Depth (inches): 10		,						
Remarks: No hydric soil indicators observed. ### Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)						Hydric Soil Pr	recent? Vec	No. V
No hydric soil indicators observed. AyDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Sparsely Vege						Tryunc don Fi	esent: res	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Mater-Stained Leaves (B9) Field Observations: Surface Water (A1) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Modern Present? Yes No Depth (inches): Saturation Present? Yes No Field Observations, if available: Wetland Hydrology Present? Yes No Field Observations, if available:		hserved						
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No Saturation Present? Yes No Depth (inches): Wetland Hydr	140 Hydric 3011 Halcators of	bocivea.						
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) _ Surface Water (A1) _ Salt Crust (B11) _ Surface Soil Cracks (B6) _ High Water Table (A2) _ Aquatic Invertebrates (B13) _ Sparsely Vegetated Concave Surface (B8) _ Saturation (A3) _ Hydrogen Sulfide Odor (C1) _ Drainage Patterns (B10) _ Water Marks (B1) _ Dry-Season Water Table (C2) _ Oxidized Rhizospheres on Living Roots (C3) _ Sediment Deposits (B2) _ Oxidized Rhizospheres on Living Roots (C3) (where tilled) _ Drift Deposits (B3) _ Where not tilled) _ Crayfish Burrows (C8) _ Algal Mat or Crust (B4) _ Presence of Reduced Iron (C4) _ Saturation Visible on Aerial Imagery (C9) _ Iron Deposits (B5) _ Thin Muck Surface (C7) _ Geomorphic Position (D2) _ Inundation Visible on Aerial Imagery (B7) _ Other (Explain in Remarks) _ FAC-Neutral Test (D5) _ Water-Stained Leaves (B9) _ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No D								
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Sulf Crust (B11) Aquatic Invertebrates (B13) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Mater-Stained Leaves (B9) Field Observations: Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Pattems (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Pattems (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Crayfish Burrows (C8) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Water Table Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches): Wetland Hydrology Present? Yes No ✓ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	HYDROLOGY							
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Sulf Crust (B11) Aquatic Invertebrates (B13) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Mater-Stained Leaves (B9) Field Observations: Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Pattems (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Pattems (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Crayfish Burrows (C8) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Water Table Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches): Wetland Hydrology Present? Yes No ✓ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Wetland Hydrology Indicat	ors:						
Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Inon Deposits (B5) Thin Muck Surface (C7) ✓ Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) (where illed) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) ✓ Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Water Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches): Saturation Present? Yes No ✓ Depth (inches): Wetland Hydrology Present? Yes No ✓ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			ed: check	all that apply)		Secondary	Indicators (minimum	of two required\
High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation (Na3) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) FAC-Neutral Toestion (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Remarks:		or one respen						or two required)
Saturation (A3)				- , ,			` '	(a Surface (B9)
Water Marks (B1)	_ , ,			- '				ve Suriace (Bo)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Remarks: Remarks: Remarks: Remarks: Remarks:							• , ,	Iving Poets (C2)
Drift Deposits (B3)			_		a Roots ((•	Living Roots (C3)
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No Remarks:				•	ig roots (c		,	
Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F)				·		-	, ,	Imagen/(CQ)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations:			_	- , ,				inagery (C3)
Water-Stained Leaves (B9)		rial Imagery (B7)					
Field Observations: Surface Water Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No _ ✓ Depth (inches): Saturation Present? Yes No _ ✓ Depth (inches):				_ Culoi (Explain in Nomarko)			, ,	7\
Surface Water Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:							Teave Hammooks (D	// (LIKE)
Water Table Present? Yes No _ ✓ Depth (inches): Saturation Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Beta depth (inches): Wetland Hydrology Present? Yes No _ ✓ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		Vec	No 🗸	Denth (inches):				
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No V (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:					1			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:								/
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		res	INO <u>Å</u>	epui (inches):	_ wetla	na myarology P	resent? Yes	No <u>√</u>
		eam gauge, r	nonitoring	well, aerial photos, previous inspe	ections), if	f available:	-	
	Remarks:			· · · · · · · · · · · · · · · · · · ·			·	
, , , , , , , , , , , , , , , , , , ,		n Zone A; ho	wever n	o other hydrology indicators w	ere obse	rved. Wetland	hvdrology criterio	n is not met
	,	,		, 0,	•		,	

Project/Site: 130 Environmental Park		City/Co	ounty:	Lockha	rt/Caldwell	_ Sampling Date: 07/10/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T11-DP2	
Investigator(s): Troegle, Josh & Littleton, Brandyn						
Landform (hillslope, terrace, etc.): Floodplain		Local	relief (concave,	convex, none): Concar	ve Slope (%); 0-3
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: Ts - Tinn soils, frequently floor						cation: None available
Are climatic / hydrologic conditions on the site typical for thi		ar? Ye				
Are Vegetation, Soil, or Hydrology						present? Yes ✓ No
Are Vegetation, Soil, or Hydrology I					eeded, explain any answ	
SUMMARY OF FINDINGS – Attach site map					_	,
Hydrophytic Vegetation Present? Yes <u>✓</u> N	lo.					
Hydric Soil Present? Yes ✓ N	lo			Sampled		
Wetland Hydrology Present? Yes ✓ N			withir	ı a Wetlaı	nd? Yes <u>▼</u>	No
Remarks:						 -
VEGETATION - Use scientific names of plan	ıts.					
	Absolute	Domi	inant I	ndicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size: 30')	% Cover				Number of Dominant S	
1					That Are OBL, FACW,	
2					(excluding FAC-):	<u>3</u> (A)
3					Total Number of Domi	
4	_				Species Across All Str	ata: <u>3</u> (B)
Sapling/Shrub Stratum (Plot size: 15')		= Tota	al Cove	er	Percent of Dominant S	
1. Fraxinus pennsylvanica	5	Yes		FAC	That Are OBL, FACW,	or FAC: 100 (A/B)
2. Ulmus crassifolia	5	Yes		FAC	Prevalence Index wo	
3					Total % Cover of:	
4						x 1 =
5						x 2 =
Herb Stratum (Plot size: 5'	10	= Tota	al Cove	er	1	x 3 = x 4 =
1. Eleocharis compressa	85	Yes		FACW		x5=
2 Phyla lanceolata	20	No		FACW		(A) (B)
3. Xanthium strumarium	15	No		FAC		
4. Axonopus fissifolius	15	No		FAC		x = B/A =
5.					Hydrophytic Vegetati	
6.						Hydrophytic Vegetation
7					✓ 2 - Dominance Te	
8					3 - Prevalence Inc	lex is ≤3.0° Adaptations¹ (Provide supporting
9					data in Remark	Adaptations (Provide supporting sor on a separate sheet)
10					Problematic Hydro	ophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30'	130	= Tota	al Cove	er	1 Indicators of hydric se	oil and wetland hydrology must
					be present, unless dist	urbed or problematic.
1					Hydrophytic	
					Vegetation	,
% Bare Ground in Herb Stratum 30				<u> </u>	Present? Ye	es No
Remarks:						
Sapling/shrub on perimeter of depression.						

SOIL

Sampling Point: T11-DP2

Profile Description: (Describe to the don't product to decument the indicator or confirm the change of indicator.)

Depth	scription: (Describ Matrix		Red	dox Feature	es			
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0-12	10 YR 4/1	80	10 YR 5/8	20	<u> </u>	M/PL_	Clay	
	_			-				
								
					-			
1							2	
	Concentration, D=D					ed Sand G		on: PL=Pore Lining, M=Matrix.
	Indicators: (Appl	licable to all						Problematic Hydric Soils ³ :
Histoso				Gleyed Ma	, ,			(A9) (LRR I, J)
	Epipedon (A2) Histic (A3)			Redox (Steed Matrix (S				rie Redox (A16) (LRR F, G, H)
	en Sulfide (A4)			eu maunx (√ ∕ Mucky Mi				ace (S7) (LRR G) s Depressions (F16)
	ed Layers (A5) (LRF	R F)		Gleyed M				l outside of MLRA 72 & 73)
	uck (A9) (LRR F, G			ted Matrix (•	/ertic (F18)
	ed Below Dark Surfa			Dark Surf				nt Material (TF2)
Thick E	ark Surface (A12)		Deplet	led Dark Si	urface (F7)	Very Shall	ow Dark Surface (TF12)
	Mucky Mineral (S1)			Depression	, ,			olain in Remarks)
	Mucky Peat or Pea	. , ,		Plains Depr		,		ydrophytic vegetation and
5 cm M	ucky Peat or Peat (S3) (LRR F)	(M	LRA 72 &	73 of LRF	R H)		drology must be present,
Doctrictive	Layer (if present):						unless dist	turbed or problematic.
	Layer (ii present):	i						
Type:		-						
<u> </u>	:ches):						Hydric Soil Pre	sent? Yes ✓ No
Remarks:								
HYDROLO	GY							
	drology Indicators	e ·		 -	_			
	cators (minimum of		: abook all that an	alu)			Cocondent	adiantana (aristo en Co
	·	one required	****				-	ndicators (minimum of two required)
	Water (A1)		Salt Crus	, ,	(0.40)			Soil Cracks (B6)
	ater Table (A2)			nvertebrate				y Vegetated Concave Surface (B8)
Saturat			Hydrogei					e Patterns (B10)
	Marks (B1)			on Water 1				Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		✓ Oxídized	•		ing Roots	. ,	e tilled)
	posits (B3)		,	not tilled)				Burrows (C8)
	at or Crust (B4)			of Reduce	•	ł)		on Visible on Aerial Imagery (C9)
_	posits (B5)	/D7		k Surface (, ,			phic Position (D2)
	ion Visible on Aeria	5) Other (E)	φlain in Re	emarks)			utral Test (D5)
	Stained Leaves (B9))					Frost-He	eave Hummocks (D7) (LRR F)
Field Obser								
Surface War			lo 🗸 🔃 Depth (ii					
Water Table			lo 🗸 Depth (ii			1		
Saturation F		Yes N	lo <u>✓</u> Depth (iı	nches):		_ Wetl	and Hydrology Pro	esent? Yes ✓ No
	pillary fringe) corded Data (strea	m dalide moi	nitoring well aerial	nhotos nr	evious ins	nections)	if available:	
Pogotine I/c	oordou bata (atreat	iii gaage, iiloi		priotos, pr	OVIOUS IIIS	pactions),	п ачанамс.	
Domostic		····						
Remarks:	on 1006 carlet	d caturata -	on 2012 annia!					
ıııuııdated (on 1996 aeriai and	u saturated	on zo iz aerial.					

Project/Site: 130 Environmental Park		City/Coun	_{ity:} Lockhai	rt/Caldwell	Sampling Date: 07/10/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T11-DP3
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Channel remnant				-	e Slope (%): 0-3
Subregion (LRR): J - Southwestern Prairies				· -	
Soil Map Unit Name: Ts - Tinn soils, frequently floor					ation: None available
•					
Are climatic / hydrologic conditions on the site typical for the	•				·
Are Vegetation, Soil, or Hydrology					present? Yes 🗸 No
Are Vegetation, Soit, or Hydrology	naturally pro	blematic?	? (If ne	eeded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	sampli	ing point l	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> N	Jo.				
Hydric Soil Present? Yes V	10		the Sampled		
	10	wi	ithin a Wetlar	nd? Yes <u>▼</u>	No
Remarks:					
VEGETATION – Use scientific names of plan					
Tree Stratum (Plot size: 30'	Absolute % Cover		nt Indicator :? Status	Dominance Test work	
1				Number of Dominant S That Are OBL, FACW,	
2				(excluding FAC-):	3 (A)
3				Total Number of Domin	ant
4.				Species Across All Stra	^
		= Total C	Cover	Percent of Dominant Sp	necies
Sapling/Shrub Stratum (Plot size: 15'	_	17	77.0	That Are OBL, FACW,	
1, Ulmus crassifolia	_ 5	Yes Yes	FAC FAC	Prevalence Index wor	ksheet:
2. Fraxinus pennsylvanica	- 		- FAC		Multiply by:
3					x 1 =
4					x 2 =
5	10	= Total C	`over	FAC species	x 3 =
Herb Stratum (Plot size: 5')		- Total C	00461	FACU species	x 4 =
1. Persicaria hydropiperoides	50	Yes	OBL	UPL species	x 5 =
2. Iva annua		No	FAC	Column Totals:	(A) (B)
3. Xanthium strumarium	_ 20	No	FAC	Prevalence Index	= B/A =
4. Sesbania drummondii	_ 5	No	FACW	Hydrophytic Vegetation	
5. Phyla lanceolata		No	FACW	1 - Rapid Test for H	
6				✓ 2 - Dominance Tes	
7				3 - Prevalence Inde	
8				4 - Morphological A	Adaptations ¹ (Provide supporting
9				data in Remarks	s or on a separate sheet)
10	440			Problematic Hydro	phytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30'	110	= Total C	over	¹ Indicators of hydric soi	l and wetland hydrology must
1				be present, unless distu	urbed or problematic.
2				Hydrophytic	•
			Cover	Vegetation	/ "
% Bare Ground in Herb Stratum 60				Present? Yes	s No
Remarks:					
Sapling shrub on perimeter of depression.					

SOIL Sampling Point: T11-DP3

Profile Des	scription: (Describ Matrix		oth needed				or confir	m the absence o	f indicators.)
(inches)	Color (moist)	%	Color (x Feature %	_Type ¹	Loc ²	Texture	Remarks
0-12	10 YR 4/1	80	10 YR 5		20	С	M/PL	Clay	ricinario
i ———									
									_
					-				
	· · · · · · · · · · · · · · · · · · ·								 _
									<u> </u>
Type: C=0	Concentration, D=De	enletion RM	=Reduced	Matrix CS	=Covere	d or Coat	ed Sand G	Grains ² Loca	tion: PL=Pore Lining, M=Matrix.
	Indicators: (Appl						<u>od Odna C</u>		or Problematic Hydric Soils ³ :
Histoso				Sandy G		•			ick (A9) (LRR I, J)
	pipedon (A2)				ledox (S5	, ,			rairie Redox (A16) (LRR F, G, H)
	listic (A3)		_		Matrix (S				rface (S7) (LRR G)
Hydrog	en Sulfide (A4)					neral (F1)			ins Depressions (F16)
Stratifie	ed Layers (A5) (LRF	t F)		Loamy 0	eyed M	atrix (F2)		(LRR	H outside of MLRA 72 & 73)
1 cm M	uck (A9) (LRR F, G	, H)	_✓	Depleted	d Matrix (F3)		Reduced	d Vertic (F18)
	ed Below Dark Surfa	ice (A11)	_	_	ark Surfa	, ,		Red Par	ent Material (TF2)
	ark Surface (A12)					ırface (F7)		allow Dark Surface (TF12)
	Mucky Mineral (S1)		—		epressio				xplain in Remarks)
	Mucky Peat or Peat			High Pla		•			f hydrophytic vegetation and
5 CM M	ucky Peat or Peat (S3) (LRR F)		(ML	RA /2 &	73 of LRF	кн)		hydrology must be present,
Poetrictivo	Layer (if present):							uness d	isturbed or problematic.
	Layer (ii present).								
Type:								1	
Depth (ir Remarks:	iches):							Hydric Soil P	resent? Yes <u>√</u> No
UVDDOL 6	201								
HYDROLC									
-	drology Indicators								-
Primary Indi	cators (minimum of	one require	d; check all	that apply	<u>') </u>			Secondary	/ Indicators (minimum of two reguired)
Surface	Water (A1)		5	Salt Crust (B11)			Surfac	ce Soil Cracks (B6)
High W	ater Table (A2)		^	quatic Inv	ertebrate	s (B13)		Spars	ely Vegetated Concave Surface (B8)
Saturati	ion (A3)		F	lydrogen S	Sulfide O	dor (C1)		✓ Draina	age Patterns (B10)
Water N	/larks (B1)		[ry-Seasor	n Water 1	able (C2)	}	Oxidiz	ed Rhizospheres on Living Roots (C3
Sedime	nt Deposits (B2)		_ 0	oxidized R	hizosphe	res on Liv	ing Roots	(C3) (wh	ere tilled)
Drift De	posits (B3)			(where n	ot tilled)			Crayfi	sh Burrows (C8)
Algal M	at or Crust (B4)		_ F	resence o	f Reduce	d Iron (C	4)	Satura	ation Visible on Aerial Imagery (C9)
Iron De	posits (B5)		1	hin Muck	Surface (C7)		✓ Geom	orphic Position (D2)
Inundat	ion Visible on Aerial	Imagery (B	7) 0	ther (Expl	ain in Re	marks)		FAC-N	Neutral Test (D5)
Water-S	Stained Leaves (B9)							Frost-	Heave Hummocks (D7) (LRR F)
Field Obser	vations:								
Surface Wat	ter Present?	Yes	No ✓	Depth (inc	hes):				
Water Table		Yes							
Saturation P		Yes					I	land Hydrology I	Present? Yes ✓ No
(includes ca	pillary fringe)								100 NO
	corded Data (stream	m gauge, m	onitoring we	ell, aerial p	hotos, pr	evious ins	pections),	if available:	
Remarks:					 				

Project/Site: 130 Environmental Park		City/Cou	_{untv:} Lockha	art/Caldwell	Sampling Date: 07	7/11/2013
				State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandyn					_	
Landform (hillslope, terrace, etc.): Depression/Dry Por			•		IVE Slope	(%): 2-4
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: MaB - Mabank loam, 1-3% slo				NWI classif		
Are climatic / hydrologic conditions on the site typical for thi						
				"Normal Circumstances"		NI.
Are Vegetation, Soil, or Hydrology §						NO
Are Vegetation, Soil, or Hydrology r				eeded, explain any answ	,	
SUMMARY OF FINDINGS – Attach site map	showing	samp	ling point	locations, transect	s, important feat	tures, etc.
Hydrophytic Vegetation Present? Yes ✓ N	lo	١.	41 0 1			
· · · · · · · · · · · · · · · · · · ·	lo	'	s the Sample		No	
	lo	'	vithin a Wetla	ina? Yes <u>v</u>	No	
Remarks:						
Dry pond						
VEGETATION Use scientific names of plan	nts.					
	Absolute	Domin	nant Indicator	Dominance Test wor	rksheet:	
<u>Tree Stratum</u> (Plot size: 30'		Specie	es? Status	Number of Dominant		
1. Prosopis glandulosa	40	Yes	FACU	That Are OBL, FACW	or FAC 3	400
2. Celtis laevigata		Yes	FAC	(excluding FAC-):	<u> </u>	(A)
3				Total Number of Domi Species Across All Str	_	(B)
4	60	- 		Species Across Air Str	ata. <u></u>	(D)
Sapling/Shrub Stratum (Plot size: 15')		_ = Total	Cover	Percent of Dominant S That Are OBL, FACW		(A/B)
1					, 0(17(0)	(AID)
2				Prevalence Index wo		
3.				Total % Cover of:	-	
4				OBL species		
5				FACW species		
Herb Stratum (Plot size: 5'		_= Total	Cover	FACU species		
1 Iva annua	50	Yes	FAC	Upr and to	×5=	
2. Persicaria hydropiperoides	75	Yes	OBL	Column Totals:		(B)
3.						
4.					ex = B/A =	
5				Hydrophytic Vegetat		
6				1 - Rapid Test for ✓ 2 - Dominance Te	. , .	OH
7				3 - Prevalence Inc		
8				4 - Morphological		supporting
9		-		data in Remar	ks or on a separate sh	neet)
10	125			Problematic Hydro	ophytic Vegetation¹ (E	xplain)
Woody Vine Stratum (Plot size: 30'	123	_ = Total	Cover	¹ Indicators of hydric so	oil and wetland hydrol	ogy must
1. Smilax bona-nox	5	Yes	FACU	be present, unless dis	turbed or problematic	
2				Hydrophytic		
90	5	= Total	Cover	Vegetation Present? Y	oo 🗸 No	
% Bare Ground in Herb Stratum 80 Remarks:				Fiesellt 1	es No	
Trees are on the perimeter of dry pond.						
Troop and on the perimeter of the pond.						
I						

Sampling Point: T11-DP4 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) % Type¹ Loc² Texture 0 - 1210 YR 2/1 60 5 YR 5/8 40 С M/PL Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ___ Histosol (A1) Sandy Gleyed Matrix (S4) ___ 1 cm Muck (A9) (LRR I, J) ___ Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) ___ Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR G) ___ Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) ___ Stratified Layers (A5) (LRR F) ___ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) ___ 1 cm Muck (A9) (LRR F, G, H) Depleted Matrix (F3) Reduced Vertic (F18) ___ Depieted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Red Parent Material (TF2) ___ Thick Dark Surface (A12) ___ Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) ___ Sandy Mucky Mineral (S1) Redox Depressions (F8) Other (Explain in Remarks) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) ³Indicators of hydrophytic vegetation and __ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: _ Depth (inches): Hydric Soil Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) ✓ Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) ✓ Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) (where tilled) Drift Deposits (B3) (where not tilled) ___ Crayfish Burrows (C8) _ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) ✓ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) ✓ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ___ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes ____ No ✓ Depth (inches): Surface Water Present? Yes ____ No ✓ Depth (inches): _____ Water Table Present? Yes ____ No ✓ Depth (inches); ____ Saturation Present? Wetland Hydrology Present? Yes ✓ No ____ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Moist at bottom of sample pit.

Remarks:

TRANSECT 11 SITE PHOTOGRAPHS



Data Point 1
Post Oak Woods



Data Point 2 Floodplain Meadows



Data Point 2 Floodplain Meadows

TRANSECT 11 SITE PHOTOGRAPHS



Data Point 3 Sumpweed Depressions



Data Point 3 Sumpweed Depressions



Data Point 4 Emergent Wetlands

T11 - Page 2

TRANSECT 11 SITE PHOTOGRAPHS



Data Point 4
Emergent Wetlands

THIS PAGE LEFT BLANK INTENTIONALLY

Project/Site: 130 Environmental Park		Citv/Cou	_{intv:} Lockha	rt/Caldwell	_ Sampling Date: _07/11/2013
•			State: TX Sampling Point		
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Flloodplain			•		ve Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: Ts - Tinn soils, frequently floor					ication: None available
Are climatic / hydrologic conditions on the site typical for th					
	-			•	•
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ	,
SUMMARY OF FINDINGS – Attach site map	showing	samp	ling point I	ocations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ ↑	٧n				
Hydric Soil Present? Yes ✓	No		s the Sampled		No
	No	V	vithin a Wetla	na? Yes <u>▼</u>	No
Remarks:					
On/In Channel					
VEGETATION – Use scientific names of plan	nts				
Total Action and the state of t	Absolute	Domin	ant Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size: 30'		Specie	es? Status	Number of Dominant S	
1. Fraxinus pennsylvanica		Yes	FAC	That Are OBL, FACW,	, or FAC
2				(excluding FAC-):	<u>5</u> (A)
3				Total Number of Domi	_
4				Species Across All Str	rata: <u>5</u> (B)
Sapling/Shrub Stratum (Plot size: 15')	20	= Total	Cover	Percent of Dominant S	. 400
1. Ulmus crassifolia	10	Yes	FAC	That Are OBL, FACW	, or FAC: 100 (A/B)
2				Prevalence Index wo	
3.				Total % Cover of:	
4					x 1 =
5					x 2 =
51	10	= Total	Cover	1	x 3 =
Herb Stratum (Plot size: 5¹ 1 Eleocharis compressa	90	Yes	FACW		x 4 =
2 Persicaria maculosa	50	Yes	FACW	· —	x 5 = (B)
3 Persicaria hydropiperoides	10	No	OBL	Coldinii Totals.	(A) (B)
4				Prevalence Inde	x = B/A =
5				Hydrophytic Vegetat	ion Indicators:
6				_	Hydrophytic Vegetation
7				✓ 2 - Dominance Te	
8.				3 - Prevalence Inc	
9.				4 - Morphological data in Remark	Adaptations ¹ (Provide supporting ks or on a separate sheet)
10					ophytic Vegetation¹ (Explain)
30'	150	= Total	Cover		pil and wetland hydrology must
Woody Vine Stratum (Plot size: 30') 1. Cardiospermum halicacabum	10	Yes	FAC	be present, unless dis	
· · · · · · · · · · · · · · · · · · ·				Urdranhidia	·
2	10	= Total	Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0		, - i Ulai	00101	Present? Yo	es No
Remarks:					· ,,
Trees and saplings/shrub on perimeter of depression	on				

Sampling Point: T13-DP1

c	റ	8	r
Q	v	Ľ	L

Depth	Matrix	(lox Feature			ii tile absence (or mulcators.
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10 YR 2/1	70	5 YR 5/8	30	<u>C</u>	M/PL	Clay	
	· · · · · · · · · · · · · · · · · · ·							
			-					
Type: C=C	Concentration D=D	— ——— epletion RM=	Reduced Matrix, C	S=Covere	d or Coate	ad Sand G	raine ² l occ	ation: PL=Pore Lining, M=Matrix.
			LRRs, unless othe			od Gariu G		for Problematic Hydric Soils ³ :
Histoso			Sandy					uck (A9) (LRR I, J)
	pipedon (A2)		Sandy					Prairie Redox (A16) (LRR F, G, H)
Black H	istic (A3)			ed Matrix (urface (S7) (LRR G)
	en Sulfide (A4)		Loamy	Mucky Mi	neral (F1)			ains Depressions (F16)
	d Layers (A5) (LRI	,		Gleyed M	, ,		(LRF	R H outside of MLRA 72 & 73)
	uck (A9) (LRR F, G			ed Matrix (,			d Vertic (F18)
	d Below Dark Surfa ark Surface (A12)	ace (A11)	✓ Redox					rent Material (TF2)
	ark Suriace (A12) Mucky Mineral (S1)	1		ed Dark Su Depressio)		allow Dark Surface (TF12) Explain in Remarks)
	Mucky Peat or Pea			lains Depr		16)		of hydrophytic vegetation and
	ucky Peat or Peat (LRA 72 &		•		hydrology must be present,
						•		disturbed or problematic.
Restrictive	Layer (if present)	:						
Туре:								
Depth (in	ches):						Hydric Soil F	Present? Yes <u>√</u> No
Remarks:						· · · · · · · · · · · · · · · · · · ·	<u> </u>	
HYDROLO	GY							
	drology Indicator	e ·						
			; check all that app	.lva)			Caranda	
		rone required			_			y Indicators (minimum of two required)
	Water (A1) ater Table (A2)		Salt Crus		- (D40)			ce Soil Cracks (B6)
Saturation	` '			vertebrate				sely Vegetated Concave Surface (B8)
_	larks (B1)			∟Sulfide O on Water 1				age Patterns (B10)
	nt Deposits (B2)		✓ Oxidized					zed Rhizospheres on Living Roots (C3)
	oosits (B3)			not tilled)		ing Roots i	. ,	nere tilled) ish Burrows (C8)
	at or Crust (B4)			of Reduce		1)		ation Visible on Aerial Imagery (C9)
_ •	osits (B5)			k Surface (7)		norphic Position (D2)
	on Visible on Aeria	l Imagery (B7		plain in Re				Neutral Test (D5)
	tained Leaves (B9)	* - ') Office (Ex	piani iii ; (c	inding)			-Heave Hummocks (D7) (LRR F)
Field Obser						1		Ticave Hallimocks (Br) (ERKT)
Surface Water		Yes N	lo <u>√</u> Depth (ir	iches).		İ		
Water Table			to V Depth (in					
Saturation P			lo <u>√</u> Depth (ir				and Hudrology	Present? Yes <u>√</u> No
(includes cap		103 1	lo <u>▼</u> Deptii (ii	icries)		_ ***	and Hydrology	riesent? res v No No
Describe Red	corded Data (strea	m gauge, moi	nitoring well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:								

TRANSECT 13 SITE PHOTOGRAPHS



Data Point 1
Emergent Wetlands



Data Point 1
Emergent Wetlands

THIS PAGE LEFT BLANK INTENTIONALLY

Project/Site: 130 Environmental Park		City/Co	ounty: _l	Lockhai	rt/Caldwell	Sampling	Date: 06	5/25/2013
Applicant/Owner: 130 Environmental Park, LLC		State: TX Sampling Point: T14-DP1						
	Section, Township, Range: NA							
Landform (hillslope, terrace, etc.): Depression	-			-	-		Slope	(%): 2
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: MaB - Mabank loam, 1 to 3%					NWI classifica			
Are climatic / hydrologic conditions on the site typical for thi								
Are Vegetation, Soil, or Hydrology:					"Normal Circumstances" p		Yes <u></u> ✓	No
Are Vegetation, Soil, or Hydrology	naturally pro	blemat	tic?	(If ne	eeded, explain any answer	s in Rem	arks.)	
SUMMARY OF FINDINGS – Attach site map	showing	sam	pling	point l	ocations, transects,	impor	tant fea	tures, etc.
Hydrophytic Vegetation Present? Yes ✓ N	1o							
	40			Sampled a Wetlar	,	No		
Wetland Hydrology Present? Yes ✓ N	10		WILLIAM	a vicuai	id: Tes			
Remarks:								
Data point is located on emergent wetland fringe of	pond.							
VEGETATION – Use scientific names of plan	nte							
VEGETATION – Ose scientific finances of plan	Absolute	Domi	inant Ir	ndicator	Dominance Test works	ehoot:		
Tree Stratum (Plot size: 30'	% Cover				Number of Dominant Sp			
1					That Are OBL, FACW, o	or FAC		
2					(excluding FAC-):		3	(A)
3					Total Number of Domina			
4					Species Across All Strat	a:	3	(B)
G-1:- (D)-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		= Tota	al Cover	-	Percent of Dominant Sp		400	
Sapling/Shrub Stratum (Plot size: 15') 1. Sesbania drummondii	25	Yes	F	ACW	That Are OBL, FACW, o	r FAC:	100	(A/B)
I .					Prevalence Index work	sheet:		
3.					Total % Cover of:		Multiply b	ογ:
4					OBL species	x1	=	
5					FACW species			
	25	= Tota	al Cover		FAC species			
Herb Stratum (Plot size: 5'			_		FACU species			
1. Paspalum distichum	80	Yes		ACW			5 =	
2. Eleocharis engelmannii	- 30	Yes		FACW	Column Totals:	(A)		(B)
3. Iva annua Ambrosia psilostachya	- 3	No No		ACU	Prevalence Index	= B/A =		
					Hydrophytic Vegetatio			
5					1 - Rapid Test for H	ydrophyti	c Vegetati	on
6				-	✓ 2 - Dominance Test	is >50%		
7					3 - Prevalence Inde	x is ≤3.0 ¹		
9.					4 - Morphological A	daptation	s¹ (Provide	supporting
10					data in Remarks		-	-
101			al Cove		Problematic Hydrop	nytic Veg	etation" (E	xplain)
Woody Vine Stratum (Plot size: 30')					¹ Indicators of hydric soil be present, unless distu			
2					Hydrophytic			
% Dave Crayed in Host Strature ()			al Cove	r	Vegetation	s <u> </u>	No	
Remarks:								
Emergent wetland vegetation with occasional sesba	ania. Hydr	ophytic	c vege	tation cr	riterion is met.			
	-		_					

SOIL

Sampling Point: T14-DP1

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

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Fost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	(inches) Color (moist) % Color (moist) % Type ¹ L		Texture	
0.4 10 YR 2/1 80 10 YR 5/8 20 C M Loam Clay pan at 4-inches **Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix, Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histocal (A1) Sandy Gleyed Matrix (S3) Histo Epipedon (A2) Sandy Gleyed Matrix (S6) Black Histo (A3) Sirripped Matrix (S6) Black Histo (A3) Sirripped Matrix (S6) Hydrogen Suilde (A4) Loany Mucky Mineral (F1) Loany Mucky Mineral (F1) Depleted Balow Dark Surface (A11) ✓ Radox Dark Surface (F2) Depleted Balow Dark Surface (A11) ✓ Radox Dark Surface (F6) Depleted Balow Dark Surface (A11) ✓ Radox Dark Surface (F6) Sandy Mucky Mineral (S1) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F6) Son Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F6) Thick Dark Surface (A12) Depth (inches): Four Mucky Peat or Peat (S2) (LRR G, H) Depth (inches): Four Methods (A11) Pepth (inches): Four Methods (A11) Pepsh (inches): Four Methods (A11) Pe	I		Lexture	
Type: C-Concentration, D-Depletion, RM=Reduced Matrix: CS-Covered or Coated Sand Grains **Indicators: (Applicable to all LRRs, unless otherwise noted.)	0-4 10 TR 2/1 00 10 TR 5/0 20 C W	1 ∟		
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)			.oam	Clay pan at 4-inches
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)				
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)				
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)				
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)				
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)				
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)				
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)				
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)				
Histosal (A1)		Sand Grain		
Histic Epipedon (A2)				-
Black Histic (A3)				
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR F) Joany Mucky Mineral (F1) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Som Mucky Peat or Peat (S2) (LRR G, H) Som Mucky Peat or Peat (S2) (LRR G, H) Som Mucky Peat or Peat (S3) (LRR F) Mucky Peat or Peat (S3) (LRR F				
1 cm Muck (A9) (LRR F, G, H) Depleted Bellow Dark Surface (A11) Depleted Bellow Dark Surface (A11) Depleted Bellow Dark Surface (A12) September Surface (A12) Surface Water (A1) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Water (A1) Surface Soil Cracks (B6) Surface Water (A1) Surface Water (A1) Surface Soil Cracks (B6) Surface Water (A1) Surface Water (A1) Surface Soil Cracks (B6) Surface Water (A1) Surface Water (A				
	Stratified Layers (A5) (LRR F) Loamy Gleyed Matrix (F2)			
Thick Dark Surface (A12) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1)				
Sandy Mucky Mineral (S1)				The state of the s
2.5 cm Mucky Peat or Peat (S2) (LRR G, H)				The state of the s
5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present):)		
Restrictive Layer (if present): Type: Clay pan Depth (inches): Four Remarks: Hydric soil criterion is met. Hydric Soil Present? Yes \(\sqrt{No} \) No	5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H))		
Type: Clay pan Depth (inches): Four Remarks: Hydric soil criterion is met. Hydric Soil Present? Yes ✓ No Remarks: Hydric soil criterion is met. Hydric Soil Present? Yes ✓ No Remarks: Hydric soil criterion is met. Hydric Soil Present? Yes ✓ No Remarks: Hydric soil criterion is met. Hydric Soil Present? Yes ✓ No			unless	disturbed or problematic.
Popth (inches): Four Present? Present				
Remarks: Hydric soil criterion is met. Approach Approach	21			
Hydric soil criterion is met. Alt Comparison Compa		h	Hydric Soil I	Present? Yes Y No No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) (where not tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (B7) Depth (inches): Water Algal Mat or Crust (B4) Drift Deposits (B5) Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) _ Surface Water (A1) _ Salt Crust (B11) _ Surface Soil Cracks (B6) _ High Water Table (A2) _ Aquatic Invertebrates (B13) _ Sparsely Vegetated Concave Surface (B8) _ Saturation (A3) _ Hydrogen Sulfide Odor (C1) _ Drainage Patterns (B10) _ Water Marks (B1) _ Dry-Season Water Table (C2) _ Oxidized Rhizospheres on Living Roots (C3) _ Sediment Deposits (B2) _ Oxidized Rhizospheres on Living Roots (C3) (where tilled) _ Drift Deposits (B3) _ Where not tilled) _ Crayfish Burrows (C8) _ Algal Mat or Crust (B4) _ Presence of Reduced Iron (C4) _ Saturation Visible on Aerial Imagery (C9) _ Iron Deposits (B5) _ Thin Muck Surface (C7) _ Geomorphic Position (D2) _ Inundation Visible on Aerial Imagery (B7) _ Other (Explain in Remarks) _ FAC-Neutral Test (D5) _ Water-Stained Leaves (B9) _ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Dept	Hydric soil criterion is met.			
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) _ Surface Water (A1) _ Salt Crust (B11) _ Surface Soil Cracks (B6) _ High Water Table (A2) _ Aquatic Invertebrates (B13) _ Sparsely Vegetated Concave Surface (B8) _ Saturation (A3) _ Hydrogen Sulfide Odor (C1) _ Drainage Patterns (B10) _ Water Marks (B1) _ Dry-Season Water Table (C2) _ Oxidized Rhizospheres on Living Roots (C3) _ Sediment Deposits (B2) _ Oxidized Rhizospheres on Living Roots (C3) (where tilled) _ Drift Deposits (B3) _ Where not tilled) _ Crayfish Burrows (C8) _ Algal Mat or Crust (B4) _ Presence of Reduced Iron (C4) _ Saturation Visible on Aerial Imagery (C9) _ Iron Deposits (B5) _ Thin Muck Surface (C7) _ Geomorphic Position (D2) _ Inundation Visible on Aerial Imagery (B7) _ Other (Explain in Remarks) _ FAC-Neutral Test (D5) _ Water-Stained Leaves (B9) _ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Dept				
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Orift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water (A1) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Spar	HYDROLOGY			
Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) ✓ Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) ✓ Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Water Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches): Wetland Hydrology Present? Yes ✓ No (includes capillary fringe)	Wetland Hydrology Indicators:			
High Water Table (A2)	Primary Indicators (minimum of one required; check all that apply)		Seconda	ry Indicators (minimum of two required)
Saturation (A3)	Surface Water (A1) Salt Crust (B11)		Surfa	ace Soil Cracks (B6)
Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Crayfish Burrows (C8) Crayfish Burrows (C8) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) In Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) In Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Ves No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)	High Water Table (A2) Aquatic Invertebrates (B13)		Span	sely Vegetated Concave Surface (B8)
Sediment Deposits (B2)			Drain	nage Patterns (B10)
Drift Deposits (B3)				zed Rhizospheres on Living Roots (C3)
Algal Mat or Crust (B4)		Roots (C3	•	•
Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)				· ·
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations:	· · · · · · · · · · · · · · · · · ·			
				• •
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	·			, ,
Surface Water Present? Yes No ✓ Depth (inches):		1	11030	Ticave Hamillocks (D7) (ERRT)
Water Table Present? Yes No ✓ Depth (inches):	_	1		
Saturation Present? Yes No V Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)				
(includes capillary fringe)		Wetland	l Hvdrology	Present? Yes √ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	(includes capillary fringe)			
	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if a	vailable:	
	Remarks:			
Fringe of off-channel pond. Data point is on Floodplain Zone A. Wetland hydrology criterion is met.	Fringe of off-channel pond. Data point is on Floodplain Zone A. Wetland hydro	ology crit	erion is me	t.

Section, Township, Ra Local relief (concave, 96 ar? Yes ✓ No _ disturbed? Are oblematic? (If no	convex, none): Convex Slope (%): 3 Long: -97.65 Datum: NAD 83 NWI classification: None available (If no, explain in Remarks.) "Normal Circumstances" present? Yes ✓ No eeded, explain any answers in Remarks.) locations, transects, important features, etc.
Section, Township, Ra Local relief (concave, .96 ar? Yes No_ disturbed? Are oblematic? (If no sampling point I Is the Sample within a Wetla Dominant Indicator Species? Status	ange: NA convex, none): Convex Long: -97.65 NWI classification: None available (If no, explain in Remarks.) "Normal Circumstances" present? Yes ✓ No eeded, explain any answers in Remarks.) locations, transects, important features, etc. d Area and? Yes No _✓ Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC−): 1 (A) Total Number of Dominant
Local relief (concave, .96 ar? Yes ✓ No_disturbed? Are oblematic? (If no sampling point I less the Sampled within a Wetlate Dominant Indicator Species? Status	Convex, none): Convex Slope (%): 3 Long: -97.65 Datum: NAD 83 NWI classification: None available (If no, explain in Remarks.) "Normal Circumstances" present? Yes V No eeded, explain any answers in Remarks.) locations, transects, important features, etc. d Area and? Yes No Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): Total Number of Dominant
ar? Yes ✓ No_ disturbed? Are oblematic? (If no sampling point I Is the Sample within a Wetla Dominant Indicator Species? Status	NWI classification: None available None available
ar? Yes No _ disturbed? Are oblematic? (If no sampling point I Is the Sample within a Wetla Dominant Indicator Species? Status	NWI classification: None available (If no, explain in Remarks.) "Normal Circumstances" present? Yes ✓ No eeded, explain any answers in Remarks.) locations, transects, important features, etc d Area and? Yes No
ar? Yes ✓ No _ disturbed? Are oblematic? (If no _ sampling point	(If no, explain in Remarks.) "Normal Circumstances" present? Yes ✓ No
Dominant Indicator Species? Status	"Normal Circumstances" present? Yes No
Is the Sampled within a Wetla Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): Number of Dominant (A) Total Number of Dominant O Dominance Test worksheet: A (A) Total Number of Dominant O Total Number of Dominant
Is the Sampled within a Wetla Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): Total Number of Dominant
Is the Sampled within a Wetla Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): Total Number of Dominant
Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): Total Number of Dominant
Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): Total Number of Dominant
Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): Total Number of Dominant
Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 1 (A) Total Number of Dominant
Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 1 (A) Total Number of Dominant
Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 1 (A) Total Number of Dominant
Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 1 (A) Total Number of Dominant
Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 1 (A) Total Number of Dominant
Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): 1 (A) Total Number of Dominant
	That Are OBL, FACW, or FAC (excluding FAC+): 1 (A) Total Number of Dominant
	(excluding FAC-): 1 (A) Total Number of Dominant
	I • • • • • • • • • • • • • • • • • • •
. 	· · · · · · · · · · · · · · · · · · ·
= Total Cover	
10101 00101	Demant of Deminant Consists
	Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
Yes FACU	
	Prevalence Index worksheet:
	Total % Cover of:Multiply by:
	OBL species x 1 = FACW species x 2 =
	FAC species x3 =
= Total Cover	FACU species x 4 =
Yes FACW	UPL species x 5 =
Yes UPL	Column Totals: (A) (B)
No FACU	(3)
-	Prevalence Index = B/A =
	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophytic Vegetation
	2 - Dominance Test is >50%
	3 - Prevalence Index is ≤3.0 ¹
	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation¹ (Explain)
= Total Cover	
	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	be present, unless disturbed of problematic.
· 	Hydrophytic
= Total Cover	Vegetation Present? Yes No ✓
	= Total Cover Yes FACW Yes UPL No FACU = Total Cover

SOIL

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

Depth Matrix Redox Features
(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks

0-4 10 YR 2/1 100 Clay

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Damarka		
Depth (inches): Four		Hydric Soil Present? Yes No ✓
Type: Clay pan		
Restrictive Layer (if present):		
		unless disturbed or problematic.
5 cm Mucky Peat or Peat (S3) (LRR F)	(MLRA 72 & 73 of LRR H)	wetland hydrology must be present,
2.5 cm Mucky Peat or Peat (S2) (LRR G, H)	High Plains Depressions (F16)	³ Indicators of hydrophytic vegetation and
Sandy Muck y Mineral (S1)	Redox Depressions (F8)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	Red Parent Material (TF2)
1 cm Muck (A9) (LRR F, G, H)	Depleted Matrix (F3)	Reduced Vertic (F18)
Stratified Layers (A5) (LRR F)	Loamy Gleyed Matrix (F2)	(LRR H outside of MLRA 72 & 73)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	High Plains Depressions (F16)
Black Histic (A3)	Stripped Matrix (S6)	Dark Surface (S7) (LRR G)
Histic Epipedon (A2)	Sandy Redox (S5)	Coast Prairie Redox (A16) (LRR F, G, H)

___ Sandy Gleyed Matrix (S4)

HYDROLOGY

No hydric soil indicators observed.

___ Histosol (A1)

HTDROLOGT		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check a	II that apply)	Secondary Indicators (minimum of two required)
High Water Table (A2) Saturation (A3) Water Marks (B1)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Root (where not tilled)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8)
Iron Deposits (B5)	Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	 Saturation Visible on Aerial Imagery (C9) ✓ Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
Field Observations:		
Surface Water Present? Yes No ✓	Depth (inches):	
Water Table Present? Yes No ✓	Depth (inches):	
(includes capillary fringe)		etland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring w	rell, aerial photos, previous inspections	s), if available:
Remarks:		
Data point is on Floodplain Zone A; however no	other hydrology indicators were ob	oserved. Wetland hydrology criterion is not met.

²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils³:

___ 1 cm Muck (A9) (LRR I, J)

Project/Site: 130 Environmental Park	Cit	ty/County: Lockhai	rt/Caldwell	_ Sampling Date: 06/25/2013			
Applicant/Owner: 130 Environmental Park, LLC							
· ·	ection, Township, Ra						
<u> </u>		, convex, none): None Slope (%): 1					
Subregion (LRR): J - Southwestern Prairies							
Soil Map Unit Name: MaB - Mabank loam, 1-3%				ication: None available			
Are climatic / hydrologic conditions on the site typical for							
Are Vegetation, Soil, or Hydrology				present? Yes ✓ No			
Are Vegetation, Soil, or Hydrology			eded, explain any answ	•			
SUMMARY OF FINDINGS – Attach site ma	ap showing s	ampling point l	ocations, transect	s, important features, etc.			
Hydrophytic Vegetation Present? Yes	No <u>√</u>	La Alan Carranta d					
	No ✓	Is the Sampled		No <u>√</u>			
Wetland Hydrology Present? Yes	No <u>√</u>	within a Wetlar	na? res	NO <u>*</u>			
Remarks:		 					
Data point is located east of dam, west of upper	reach of lake. l	Jpland grassland.					
		···					
VEGETATION – Use scientific names of p	lants.						
Tree Stratum (Plot size: 30'		Dominant Indicator	Dominance Test wor	ksheet:			
		Species? Status	Number of Dominant				
1			That Are OBL, FACW (excluding FAC-):	, or FAC (A)			
2			Total Number of Dans				
3			Total Number of Dom Species Across All St	^			
4	=		'				
Sapling/Shrub Stratum (Plot size: 15'		Total Cover	Percent of Dominant S That Are OBL, FACW				
1.							
2.			Prevalence Index wo				
3			Total % Cover of:				
4				x 1 =			
5				x 2 =			
51	=	Total Cover		x 3 =			
Herb Stratum (Plot size: 5')	70	Yes UPL	1	x 4 =			
1. Buchloe dactyloides		Yes UPL FACW	UPL species				
2. Phalaris caroliniana			Column Totals:	(A) (B)			
3			Prevalence Inde	x = B/A =			
4			Hydrophytic Vegetat				
5			1 - Rapid Test for	Hydrophytic Vegetation			
6			2 - Dominance Te				
7			3 - Prevalence In-	dex is ≤3.0 ¹			
8			4 - Morphological	Adaptations ¹ (Provide supporting			
9			data in Remar	ks or on a separate sheet)			
10			Problematic Hydr	ophytic Vegetation¹ (Explain)			
Woody Vine Stratum (Plot size: 30'	100 =	Total Cover	¹ Indicators of hydric se	oil and wetland hydrology must			
1				turbed or problematic.			
2.			Hydrophytic				
-	=		Vegetation	,			
% Bare Ground in Herb Stratum 0			Present? Y	es No <u> </u>			
Remarks:							
Upland grassland. Hydrophytic vegetation criteri	on is not met.						

Sampling Point: T14-D03 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Color (moist) % Type¹ Loc² (inches) Texture 0-4 10 YR 2/1 100 Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ___ Histosof (A1) ___ Sandy Gleyed Matrix (S4) ___ 1 cm Muck (A9) (LRR I, J) ___ Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) __ Stripped Matrix (S6) ___ Dark Surface (S7) (LRR G) Black Histic (A3) ___ Loamy Mucky Mineral (F1) ___ Hydrogen Sulfide (A4) High Plains Depressions (F16) ___ Loarny Gleyed Matrix (F2) __ Stratified Layers (A5) (LRR F) (LRR H outside of MLRA 72 & 73) ___ 1 cm Muck (A9) (LRR F, G, H) ___ Depleted Matrix (F3) Reduced Vertic (F18) ___ Redox Dark Surface (F6) ___ Depleted Below Dark Surface (A11) Red Parent Material (TF2) ___ Thick Dark Surface (A12) ___ Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (\$1) Redox Depressions (F8) Other (Explain in Remarks) ___ High Plains Depressions (F16) ³Indicators of hydrophytic vegetation and 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) ___ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Claypan Depth (inches): Four Hydric Soil Present? Yes ___ Remarks: No hydric soil indicators observed. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) ___ Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Hydrogen Sulfide Odor (C1) ___ Drainage Patterns (B10) ___ Water Marks (B1) ___ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) ___ Drift Deposits (B3) (where not tilled) ___ Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) ✓ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ___ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations:

Yes No ✓ Depth (inches): Surface Water Present? Yes _____ No 🗹 Depth (inches): _____ Water Table Present? Yes ____ No ✓ Depth (inches): ____ Saturation Present? Wetland Hydrology Present? Yes ___ No ✓ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Data point is on Floodplain Zone A; however no other hydrology indicators were observed. Wetland hydrology criterion is not met. US Army Corps of Engineers Great Plains - Version 2.0

Project/Site: 130 Environmental Park		City/Count	ty: Lockhai	rt/Caldwell	Sampling Date: 06/25/2013
Applicant/Owner: 130 Environmental Park, LLC		State: TX Sampling Point: T14-DP4			
-	ownship, Rai				
Landform (hillslope, terrace, etc.): Depression	•	Local relie	ef (concave, o	convex, попе); Concave	e Slope (%): 1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: W - Water				NWI classifica	
Are climatic / hydrologic conditions on the site typical for th	is time of ve				
Are Vegetation, Soil, or Hydrology					resent? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eded, explain any answer	
SUMMARY OF FINDINGS — Attach site map					,
		<u> </u>			
Hydrophytic Vegetation Present? Yes ✓ Mydric Soil Present? Yes ✓ Mydric Soil Present?	10	ls t	the Sampled	_	
	No	wit	thin a Wetlar	nd? Yes <u>√</u>	No
Remarks:	<u> </u>				
Upper reach of lake. No stream. Emergent wetland	d.				
VEGETATION – Use scientific names of plan	ıts.				
Tree Stratum (Plot size: 30'	Absolute % Cover		nt Indicator ? <u>Status</u>	Dominance Test works	
1				Number of Dominant Sp That Are OBL, FACW, of	
2.				(excluding FAC-):	<u>2</u> (A)
3.				Total Number of Domina	ant
4.				Species Across All Strat	ta: <u>2</u> (B)
15!		= Total C	over	Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size: 15')				That Are OBL, FACW, o	or FAC: 100 (A/B)
1				Prevalence Index work	(sheet:
2. 3.				Total % Cover of:	Multiply by:
4				OBL species	x 1 =
5					x 2 =
		= Total C	over		x 3 =
Herb Stratum (Plot size: 5')	60	Yes	FACW		x 4 =
1. Eleocharis engelmannii 2. Persicaria pensylvanicum	20	Yes	FACW		x 5 =
3 Marsilea vestita	10	No	OBL	Column Totals.	(A) (B)
4 Rumex crispus	10	No	FAC	Prevalence Index	= B/A =
5				Hydrophytic Vegetatio	n Indicators:
6				1 - Rapid Test for H	, , , ,
7				✓ 2 - Dominance Test	
8.				3 - Prevalence Inde	
9				4 - Morphological A data in Remarks	daptations ¹ (Provide supporting sor on a separate sheet)
10					phytic Vegetation ¹ (Explain)
30'	100	= Total C	over		and wetland hydrology must
Woody Vine Stratum (Plot size: 30'				be present, unless distu	
1				Hydrophytic	
		= Total C	over	Vegetation	,
% Bare Ground in Herb Stratum 0				Present? Yes	s <u>√</u> No
Remarks:					
Emergent wetland. Hydrophytic vegetation criterior	ı is met.				

SOIL

Sampling Point: T14-DP4

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

Depth	Matrix	·	pth needed to doc Re	dox Featur				orindicato	rs.)
(inches)	Color (moist)	%	Color (moist)	%_	Type	Loc ²			Remarks
0-3	10 YR 3/1	90	10 YR 4/6	<u>10</u>	_ <u>C</u>	_ <u>M</u>	Clay	Loose	
4-16	10 YR 3/1	70	10 YR 5/8	30	<u> </u>	<u>M</u>			_
16-18	10 YR 3/1	85	10 YR 5/1	15	D	M			

							-	-	
			-		_				
	-	_	-						
			-						
	· ·					_ 			
			T=Reduced Matrix,			ited Sand	Grains. ² Loc	cation: PL=I	Pore Lining, M=Matrix.
_		licable to al	I LRRs, unless oth						natic Hydric Soils³:
Histoso	i (A1) pipedon (A2)		Sandy	/ Gleyed N / Redox (S)		Auck (A9) (L Proirie Bods	.RR I, J) ox (A16) (LRR F, G, H)
_	listic (A3)			ed Matrix	•			urface (\$7)	
_	en Sulfide (A4)			y Mucky M	. ,	1)			ssions (F16)
	d Layers (A5) (LRF			y Gleyed N)			e of MLRA 72 & 73)
	uck (A9) (LRR F, G			ted Matrix	. ,			ed Verlic (F	-
	ed Below Dark Surf	ace (A11)	✓ Redo			7)		arent Materi	
	ark Surface (A12) Mucky Mineral (S1)			ted Dark S k Depressi	•	7)		กลแดพ Dark (Explain in F	Surface (TF12)
	Mucky Peat or Pea		_	Plains Dep		(F16)			tic vegetation and
	ucky Peat or Peat (ILRA 72 8					must be present,
							unless	disturbed o	r problematic.
Restrictive	Layer (if present)	:							
Туре:									
Depth (in	iches):						Hydric Soil	Present?	Yes <u>✓</u> No
HYDROLC)GY								
Wetland Hy	drology Indicator	s:							
Primary Indi	cators (minimum of	f one require	d; check all that ap	ply)			Seconda	<u>ry Indicator</u>	s (minimum of two required)
_	Water (A1)		Salt Crus					ace Soil Cra	` '
	ater Table (A2)			nvertebrat	. ,				ited Concave Surface (B8)
Saturati				n Sulfide (nage Patteri	
	Marks (B1)		Dry-Sea: Oxidized	son Water		-			pheres on Living Roots (C3)
· 	nt Deposits (B2) posits (B3)			not tilled		iving Root		'here tilled) /fish Burrow	
	at or Crust (B4)		Presence		•	24)			s (Co) le on Aerial Imagery (C9)
	posits (B5)		Thin Mud			J +)	,	morphic Pos	
	ion Visible on Aeria	I Imagery (E		xplain in R				-Neutral Te	
	Stained Leaves (B9		, —		ŕ				mmocks (D7) (LRR F)
Field Obser	vations:					T			
Surface Wat			No ✓ Depth (i						
Water Table			No ✓ Depth (i						
	Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No								
	pillary fringe) corded Data (strea	m dalide m	onitoring well, aeria	l photos p	revious ir				· — —
Pearline Ke	conded Data (sifea	m gauge, III	oratoring well, aeria	i priotos, p	n evious II	ishacrious	g, ii available.		
Remarks:									
	h of lake. Data p	oint is on F	loodplain Zone A	. Wetlan	d hydrol	ogy criter	ion is met.		
11	·				, 0.	57			

Project/Site: 130 Environmental Park		City/Cou	_{ntv:} Lockha	rt/Caldwell	Sampling Date: (6/25/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
-					. 13	
Landform (hillslope, terrace, etc.): Depression			•	convex, none): Conca	/e Sfor	e (%)· 0
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: W - Water				NWI classific		
Are climatic / hydrologic conditions on the site typical for	this time of va	or? Von				ilabio .
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"	•	NI-
Are Vegetation, Soil, or Hydrology						NO
SUMMARY OF FINDINGS - Attach site ma				eeded, explain any answe	r	atures, etc.
	No					
	No		the Sampled			
Wetland Hydrology Present? Yes ✓	No	w	ithiπ a Wetlar	nd? Yes_ ▼	No	
Remarks:						
Upper reach of lake, emergent wetland.						
VEGETATION – Use scientific names of pl	ante					
VEGETATION - 030 30101101110 11011103 01 pt	Absolute	Domina	ant Indicator	Dominance Test work	cehoot:	
Tree Stratum (Plot size: 30')			s? Status	Number of Dominant S		
1				That Are OBL, FACW,		
2				(excluding FAC-):	3	(A)
3				Total Number of Domir	nant	(5)
4				Species Across All Stra	ata: <u>3</u>	(B)
Sapling/Shrub Stratum (Plot size: 15')			Cover	Percent of Dominant S That Are OBL, FACW,		(A/B)
1		-		Prevalence Index wor	rksheet:	
2					Multipty	bv:
3				OBL species		
4 5.				FACW species		
J		= Total (Cover	FAC species		
Herb Stratum (Plot size: 5')		- 1001	30101	FACU species	× 4 =	
1. Persicaria pensylvanicum	40	Yes	FACW		x 5 =	
2. Echinodorus berteroi		Yes	OBL	Column Totals:	(A)	(B)
3. Sagittaria latifolia		Yes	OBL OBL	Prevalence Index	c = B/A =	
4				Hydrophytic Vegetati		
5		. ———		1 - Rapid Test for I		tion
6				✓ 2 - Dominance Test		
7			_	3 - Prevalence Ind	ex is ≤3.0 ¹	
9.				4 - Morphological	Adaptations ¹ (Provid	le supporting
10					s or on a separate s	-
				Problematic Hydro	phytic Vegetation' (Explain)
Woody Vine Stratum (Plot size: 30')				¹ Indicators of hydric so be present, unless dist		
2.				Hydrophytic		······································
% Bare Ground in Herb Stratum 20		= Total (Cover	Vegetation	es_√ No	
Remarks:				·		
Emergent wetland dominated by smartweed, with	a couple of	aquatic :	species. Hy	drophytic vegetation cr	iterion is met.	

SOIL
Sampling Point: T14-DP5
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix	e to the de	Jin need		x Feature		or comir	n the absence of i	ndicators.)
(inches)	Color (moist)	%	Cold	or (moist)	<u>%</u>	Type ¹	_Loc ²	Texture	Remarks
0-3	10 YR 3/1	90	10 YF	2 4/6	10	С	M	Clay	•
4-12	10 YR 3/1	70	10 YF	t 5/8	30	С	M		
12-18	10 YR 3/1	 85	10 YF	8 5/1	15	D	M		
									
					-				
¹ Type: C=Co	ncentration, D=De	pletion, RM	=Reduce	ed Matrix, CS	S=Covered	d or Coate	d Sand G	rains. ² Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Appli	cable to al	LRRs, t	unless other	rwise not	ed.)		Indicators for	Problematic Hydric Soils ³ :
Histosof	. ,				Gleyed Ma				(A9) (LRR I, J)
	pedon (A2)				Redox (S5				rie Redox (A16) (LRR F, G, H)
Black His	nic (A3) n Sulfide (A4)				d Matrix (S Mucky Mir				ice (S7) (LRR G) s Depressions (F16)
	Layers (A5) (LRR	F)			Gleyed Ma			. –	outside of MLRA 72 & 73)
	ck (A9) (LRR F, G ,				d Matrix (I				/ertic (F18)
	Below Dark Surfa	ce (A11)		✓ Redox [Dark Surfa	ice (F6)		Red Paren	t Material (TF2)
	k Surface (A12)				d Dark Su	` .)		ow Dark Surface (TF12)
	ucky Mineral (S1) ucky Peat or Peat	/90\ /I DD	G H/	_	Depression ains Depre	٠, ,	16)		plain in Remarks) ydrophytic vegetation and
	cky Peat or Peat (RA 72 & 7				drology must be present,
	,	, (,		(,		curbed or problematic.
Restrictive L	ayer (if present):			-					
Туре:									
Depth (inc	nes):							Hydric Soil Pre	sent? Yes ✓ No
Remarks:									
This soil prof	ile meets the cri	teria for hy	dric soi	l indicator F	6: Redo	x Dark S	Surface.		
HYDROLOG	×						-		
						_			
-	rology Indicators		1 51.	-11 (15 -4 1	,				
-	ators (minimum of	one require	<u>a; cneck</u>			-			ndicators (minimum of two required)
	Vater (A1) er Table (A2)			_ Salt Crust	` '	- /D40\		_	Soil Cracks (B6)
Saturation	` ,		_	_ Aquatic Inv _ Hydrogen :					Vegetated Concave Surface (B8)
Water Ma				_ Frydrogen . _ Dry-Seaso					e Patterns (B10) d Rhizospheres on Living Roots (C3)
_	Deposits (B2)			Oxidized R					e tilled)
Drift Depo					not tilled)			•	Burrows (C8)
Algal Mat	or Crust (B4)			Presence o	of Reduce	d Iron (C4	1)		סח Visible on Aerial Imagery (C9)
Iron Depo	sits (B5)			Thin Muck	Surface (C7)		_	phic Position (D2)
Inundation	n Visible o <mark>n A</mark> erial	lmagery (B	7)	Other (Exp	lain in Re	marks)		✓ FAC-Ne	utral Test (D5)
Water-Sta	ined Leaves (B9)							Frost-He	eave Hummocks (D7) (LRR F)
Field Observa									
Surface Water				_ Depth (ind			1	•	1
Water Table F				_ Depth (ind	,		_		
Saturation Pre		/es	No <u>√</u>	_ Depth (inc	ches):		_ Wetl	and Hydrology Pro	esent? Yes <u>√</u> No
(includes capi Describe Reco	lary fringe) orded Data (strean	n daude, m	onitorina	well, aerial r	photos, pre	evious ins	pections)	if available	
	(50.50)	əə*} III	9	,			/,		
Remarks:									
	of lake. Data po	int in on F	loodpla	in Zone A.	Wetland	hydrolo	gy criterio	n is met.	
	'					-			
								····	

Project/Site: 130 Environmental Park		City/Cou	_{inty:} Lockha	rt/Caldwell	Sampling Date:	06/25/2013
Applicant/Owner: 130 Environmental Park, LLC		State: TX Sampling Point: T14-DP6				
	nge: NA	. 0				
Landform (hillstope, terrace, etc.): Depression		Local re	elief (concave,	convex, none); Concav	/e SI	ope (%): 0
Subregion (LRR): J - Southwestern Prairies				Long: <u>-</u> 97.65		
Soil Map Unit Name; W - Water				NWI classific		
Are climatic / hydrologic conditions on the site typical for thi						
Are Vegetation, Soil, or Hydrologys				'Normal Circumstances"		, No
Are Vegetation, Soil, or Hydrology i				eeded, explain any answe		110
SUMMARY OF FINDINGS – Attach site map						eatures, etc.
Hydrophytic Vegetation Present? Yes ✓ N	lo.					<u>.</u>
Hydrophytic Vegetation Present? Yes ✓ N Hydric Soil Present? Yes ✓ N	lo	- 1	s the Sampled			
	lo	V	vithin a Wetlar	nd? Yes_ <u>▼</u>	No	_
Remarks:					-	
Scrub-shrub wetland along north shore at lake.						
VEGETATION – Use scientific names of plan	ıte					•••
VEGETATION - Ose scientific flatfies of plan		Domin	ant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30'			es? Status	Number of Dominant S		
1				That Are OBL, FACW,		4.5
2	-			(excluding FAC-):		(A)
3				Total Number of Domin	nant	(D)
4				Species Across Alf Stra		(B)
Sapling/Shrub Stratum (Plot size: 15'		= lotal	Cover	Percent of Dominant S That Are OBL, FACW,		(A/B)
1. Sesbania drummondii	50	Yes	FACW			(\(\alpha\(\beta\)
2				Prevalence Index wor		
3				Total % Cover of:		oly by:
4				OBL species		
5	- 			FAC species		
Herb Stratum (Plot size: 5'	50	= Total	Cover	FACU species		
1. Eleocharis palustris	90	Yes	OBL		x 5 =	
2. Persicaria pensylvanicum	10	No	FACW	Column Totals:		
3. Agrostis hyemalis	10	No	FACW	Provolence Index	~ P/A -	
4. Iva annua	_ 10	No	FAC	Prevalence Index Hydrophytic Vegetation		
5				1 - Rapid Test for I		tation
6				✓ 2 - Dominance Tes		AGO II
7				3 - Prevalence Inde		
8				4 - Morphological /	Adaptations ¹ (Prov	vide supporting
910					s or on a separate	
10.		= Total	Cover	Problematic Hydro	phytic Vegetation	' (Explain)
Woody Vine Stratum (Plot size: 30')				¹ Indicators of hydric so be present, unless dist		
1						200.
2				Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 0			Cover	Present? Ye	es <u>√</u> No _	
Remarks:						
Scrub-shrub wetland dominated by Sesbania. Hydr	ophytic ve	getation	n criterion is r	net.		

SOIL Sampling Point: T14-DP6

Depth	scription: (Descr Matr	ix	pui need		ment the ox Feature		or cont	irm the absence	of indicators.)
(inches)	Color (moist) %		r (moist)	%_	_Type ¹	Loc²	Texture	Remarks
0-4	10 YR 4/1	85	5 YR 5	5/8	15	<u> </u>	<u>M</u>	Clay	
4-6	10 YR 3/1	55	5 YR 5	5/8	15	<u> </u>	M	Clay	
			10 YR	6/2	30	D	M		***
6-16	10 YR 5/6	50	5 YR 4	1/6	50	С	М		Dense
									-
								-	
			<u> </u>						****
1Type: C=0	- ————————————————————————————————————	Tenletion RM	M=Reduce	d Matrix C	S=Covere	d or Coate	ad Sand	Grains 21 o	cation: PL=Pore Lining, M=Matrix.
	Indicators: (Ap						o Sano		for Problematic Hydric Soils ³ :
Histoso				Sandy		•			Muck (A9) (LRR I, J)
Histic E	pipedon (A2)			Sandy	Redox (S	5)			Prairie Redox (A16) (LRR F, G, H)
l — '	listic (A3)				d Matrix (-		Dark S	Surface (S7) (LRR G)
	en Sulfide (A4)			-		neral (F1)			Plains Depressions (F16)
	ed Layers (A5) (LR					latrix (F2)			RR H outside of MLRA 72 & 73)
	uck (A9) (LRR F , ed Below Dark Sur				ed Matrix (Dark Surf				ced Vertic (F18)
	ark Surface (A12)		•	_		ace (⊏6) ⊔rface (F7	`		arent Material (TF2) Shallow Dark Surface (TF12)
	Mucky Mineral (S1		-		Depression	•	/		(Explain in Remarks)
	Mucky Peat or Pe		(G, H)			essions (F	16)		of hydrophytic vegetation and
5 cm M	ucky Peat or Peat	(S3) (LRR F	•)	(ML	.RA 72 &	73 of LRF	RH)		d hydrology must be present,
								unless	disturbed or problematic.
	Layer (if present):							
Type:									,
	iches):							Hydric Soil	Present? Yes ✓ No
Remarks:									····
This soil pr	ofile meets the o	criteria for h	ydric soil	indicator l	-3: Depl	eted Mat	rix.		
HYDROLO	GY								
Wetland Hy	drology Indicato	rs:						-	
	cators (minimum o		ed; check	all that appl	v)			Seconda	ary Indicators (minimum of two required)
	Water (A1)			Salt Crust					face Soil Cracks (B6)
_	ater Table (A2)			Aquatic In	, ,	es (B13)			rsely Vegetated Concave Surface (B8)
Saturati	, ,			Hydrogen		. ,			inage Patterns (B10)
	Marks (B1)			Dry-Seaso					dized Rhizospheres on Living Roots (C3)
Sedime	nt Deposits (B2)		✓	Oxidized F	Rhizosphe	res on Liv	ing Root		here tilled)
Drift De	posits (B3)			(where	not tilled)	•		Cray	yfish Burrows (C8)
Algal Ma	at or Crust (B4)		_	Presence	of Reduce	ed Iron (C4	1)		uration Visible on Aerial Imagery (C9)
Iron Dej	oosits (B5)			Thin Muck	Surface	(C7)		,	morphic Position (D2)
Inundati	ion Visible on Aeri	al Imagery (E	37)	Other (Exp	olain in Re	emarks)		✓ FAC	C-Neutral Test (D5)
Water-S	Stained Leaves (B	9)						Fros	st-Heave Hummocks (D7) (LRR F)
Field Obser	vations:								
Surface Wat	er Present?	Yes							
Water Table	Present?	Yes							
Saturation P		Yes	No <u>✓</u>	_ Depth (in	ches):		We	tland Hydrology	y Present? Yes <u>√</u> No
(includes ca Describe Re	piliary fringe) corded Data (strei	am gauge, m	nonitorina	well, aerial i	photos, pr	evious ins	pections) if available	
				,	,			,, a.	
Remarks:				·				···	
	ke, several indic	ators obser	rved We	tland hydr	ology cri	terion is	met		
. Thigo of fa	, oo vorar male		***	aria riyur	ciogy on	CHOILIO			

Project/Site: 130 Environmental Park	1	Citv/Co	unty: Lockh	art/Caldwell	Sampling	Date: 06/26	3/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX			
Landform (hillstope, terrace, etc.): Lakeshore				, convex, none): Conve	ex	Sione (%)	0-3
• • •				Long: -97.65			
Soil Map Unit Name: W - Water	Lat			NWI class			
Are climatic / hydrologic conditions on the site typical for	41-1-41	0 V-				10 available	
Are Vegetation, Soil, or Hydrology				*Normal Circumstances			NO
Are Vegetation, Soil, or Hydrology	_ naturally pro	obiemat	IC? (IT I	needed, explain any ansv	vers in Remai	rks.)	
SUMMARY OF FINDINGS – Attach site ma	p showing	sam	pling point	locations, transec	ts, importa	ant feature	es, etc.
Hydrophytic Vegetation Present? Yes	No √						
	No ✓		Is the Sample		N- A	/	
Wetland Hydrology Present? Yes	No ✓		within a Wett	and? fes	No_ <u>v</u>		
Remarks:							
Upland area on micro-knoll near wetlands at upper	er reaches of	lake.					
				<u> </u>			
VEGETATION – Use scientific names of pl							
Tree Stratum (Plot size: 30')	Absolute % Cover		nant Indicator ies? Status				
1				 Number of Dominant That Are OBL, FACV 			
2				(excluding FAC-):	_1	1	(A)
3				 Total Number of Don 	ninanf		
4.				Species Across All S	trata:	2	(B)
		= Tota	l Cover	Percent of Dominant	Snaciae		
Sapling/Shrub Stratum (Plot size: 15'		•		That Are OBL, FACV		50	(A/B)
1				Prevalence Index w	orkshoot:		
2				Total % Cover of		Multiply by	
3				OBL species			
4				FACW species			
5				FAC species		· 	
Herb Stratum (Plot size: 5')		= rota	s Cover	FACU species			
1. Xanthium strumarium	70	Yes	FAC	UPL species	x 5	=	
2. Cynodon dactylon	15	No	FACU	Column Totals:	(A)		(B)
3.					D (A		
4				Prevalence Ind			_
5				Hydrophytic Vegeta			
6				1 - Rapid Test fo		vegetation	
7				3 - Prevalence Ir			
8				4 - Morphologica		¹ /Provide cur	pporting
9				data in Rema	irks or on a se	parate sheet))
10				- Problematic Hyd	rophytic Vege	etation¹ (Expla	ain)
Woody Vine Stratum (Plot size: 30'		= Tota	l Cover	¹ Indicators of hydric s	soil and wetter	nd hydrology	muet
Nubus trivialis (Plot size: 30	95	Yes	FACU	be present, unless di	sturbed or pro	blematic.	muət
				_ Hydrophytic			
2		= Tota	l Cover	Vegetation		,	
% Bare Ground in Herb Stratum 5		. 10ta		Present?	Yes	No <u>✓</u>	
Remarks:							· · ·
Upland areas dominated by southern dewberry.	Hydrophytic v	vegeta	ition criterion	is not met.			

SOIL

Sampling Point: T14-DP7

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

Depth Matrix Redox Features

Depth (inches)	Matrix Color (moist)	%	Color (moist)	dox Featur %	Type ¹	Loc²	Texture	Remarks
1-3	10 YR 2/1	100					Clay	Nomento
4-12	10 YR 4/1	95	10 YR 4/2	5	С	М		Not distinct or prominent
				_				
			_					
						• ——		
Type: C=C	concentration, D=D	epletion, RM=	Reduced Matrix, (ed or Coat	ed Sand G	rains. ² Loc	cation: PL=Pore Lining, M=Matrix.
	Indicators: (Appl							for Problematic Hydric Soils ³ :
Histoso	, ,			-	1atrix (S4)			Muck (A9) (LRR I, J)
	pipedon (A2)			Redox (S				Prairie Redox (A16) (LRR F, G, H)
	listic (A3) en Sulfide (A4)			ed Matrix (Mucky M	(So) lineral (F1)			Surface (S7) (LRR G) Plains Depressions (F16)
	d Layers (A5) (LRF	RF)		-	//atrix (F2)			RR H outside of MLRA 72 & 73)
	uck (A9) (LRR F, G			ed Matrix				ed Vertic (F18)
	d Below Dark Surfa	ace (A11)		Dark Sur	. ,			arent Material (TF2)
	ark Surface (A12)				Surface (F7)		Shallow Dark Surface (TF12)
	Mucky Mineral (S1) Mucky Peat or Pea			Depressi	олѕ (на) ressions (f	16)		(Explain in Remarks) of hydrophytic vegetation and
	ucky Peat or Peat (. — -		73 of LRI			d hydrology must be present,
			•			,		disturbed or problematic.
estrictive	Layer (if present):							
Туре:								
Depth (in	ches):						Hydric Soil	Present? Yes No ✓
Remarks:								
	s a high matrix va ralify as depleted					entration	s are not disti	inct or prominent. Therefore, this so
	admy as depleted	- Tryc		13 1101 1110				·
YDROLO	GY							
Vetland Hy	drology Indicators	s:					_	
	cators (minimum of	one required					Seconda	ary Indicators (minimum of two required)
_	Water (A1)		Salt Crus	` '				ace Soil Cracks (B6)
	ater Table (A2)			nvertebrat	٠,			rsely Vegetated Concave Surface (B8)
Saturati				n Sulfide 0	, ,			nage Patterns (B10)
	larks (B1)		-		Table (C2			dized Rhizospheres on Living Roots (C3
	nt Deposits (B2) posits (B3)			not tilled	eres on Liv	ing Roots	. ,	/here tilled)
	at or Crust (B4)		•		i) ed Iron (C	1)		/fish Burrows (C8)
	oosits (B5)			k Surface		7)		ration Visible on Aerial Imagery (C9) morphic Position (D2)
	on Visible on Aeria	I Imagery (B7		plain in R				-Neutral Test (D5)
	tained Leaves (B9)				,			it-Heave Hummocks (D7) (LRR F)
ield Obser	vations:							- (-) ()
urface Wat	er Present?	Yes N	o 🗸 Depth (i	nches):				
/ater Table			o ✓ Depth (i			I		
	oillary fringe)		o <u>V</u> Depth (ii					y Present? Yes No ✓
	corded Data (stream							
	os: 2012 NAIP	NC, 2010 I	NAIP, 2008-20	09 CIR,	2005 N	AIP CIR,	2004 NAIP	CIR, 1996 DOQQ CIR
temarks:								
ata point is	s on Floodplain Z	one A. Muli	iple years of ae	rial photo	graphy w	ere evalu	ated for visible	e saturation. Slight saturation was
searund fo	とうロイン わいたにのかへき	COncietanti	loar to vioar Sit	A ic on o	miera ba	all adiaco	int to wattand	areas. Wetland hydrology criterio

Project/Site: 130 Environmental Park		City/Cour	nty: Lockhai	rt/Caldwell	Sampling Date: 06/26/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T14-DP8
•			Township, Ra		
					Slope (%): 0
Subregion (LRR): J - Southwestern Prairies					
					cation: None available
Are climatic / hydrologic conditions on the site typical for th					
Are Vegetation, Soil, or Hydrology					oresent? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map					•
Liveles the dia Vandation Brancata	va ./				
Hydrophytic Vegetation Present? Yes I Hydric Soil Present? Yes I			the Sampled		/
Wetland Hydrology Present? Yes		w	ithin a Wetlar	nd? Yes	No <u>√</u>
Remarks:					
Upland open meadow adjacent to channel on micro	o-knoll.				
VECETATION No seignification no seignification	-4-				
VEGETATION – Use scientific names of pla		Damba		I Deminera Test	
Tree Stratum (Plot size: 30'	Absolute % Cover		int Indicator S? Status	Dominance Test work	
1				Number of Dominant S That Are OBL, FACW,	
2				(excluding FAC-);	<u>1</u> (A)
3.				Total Number of Domin	nant _
4				Species Across All Stra	2 (B)
1.51		= Total C	Cover	Percent of Dominant S	pecies
Sapling/Shrub Stratum (Plot size: 15'				That Are OBL, FACW,	or FAC: 50 (A/B)
1				Prevalence Index wor	ksheet:
2. 3.				Total % Cover of:	Multiply by:
4				OBL species	x 1 =
5.				FACW species	x 2 =
		= Total C	 Cover		x 3 =
Herb Stratum (Plot size: 5')				1	x 4 =
1. Cynodon dactylon	60	Yes	FACU		x 5 =
2. Carex tetrastachya	- 40	Yes	FACU	Column Totals:	(A) (B)
3. Cardiospermum halicacabum		No	FACU	Prevalence index	= B/A =
4				Hydrophytic Vegetation	
5				1 - Rapid Test for I	Hydrophytic Vegetation
6				2 - Dominance Tes	st is >50%
7				3 - Prevalence Ind	ex is ≤3.0 ¹
8. 9				4 - Morphological /	Adaptations ¹ (Provide supporting
10					s or on a separate sheet)
10.		= Total C		Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30')				¹ Indicators of hydric so be present, unless dist	il and wetland hydrology must
1					
2				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0	 	= Total (Cover	Present? Ye	s No <u> </u>
Remarks:					
Xanthium strumarium stalks from last year. Herbac	eous area	dominat	ed by Bermi	udagrass and sedge. I	Hydrophytic vegetation
criterion is not met.				-	- -

Profile Description: (Des	cribe to the dep	oth needed to docu	ment the i	ndicator (or confirm	n the absence of in	dicators.)
- +F	itrix		x Features	S			
(inches) Color (moi		Color (moist)	%	_Type ¹	Loc ²	Texture	Remarks
0-4 10 YR 2/1	100					Clay	
5-10 10 YR 6/4	80	5 YR 4/6	20			Sandy clay	
		_					
¹Type: C=Concentration, D	=Depletion, RM	=Reduced Matrix, C	S=Covered	or Coate	d Sand Gr	rains. ² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (A						Indicators for F	Problematic Hydric Soils ³ :
Histosol (A1)		Sandy	Gleyed Ma	trix (S4)		1 cm Muck	(A9) (LRR I, J)
Histic Epipedon (A2)		Sandy I	Redox (S5))			e Redox (A16) (LRR F, G, H)
Black Histic (A3)			d Matrix (S				e (S7) (LRR G)
Hydrogen Sulfide (A4)	IBB E\		Mucky Min				Depressions (F16)
Stratified Layers (A5) (I 1 cm Muck (A9) (LRR I			Gleyed Ma d Matrix (F				outside of MLRA 72 & 73)
Depleted Below Dark S			Dark Surfa	•		Reduced Ve	Material (TF2)
Thick Dark Surface (A1			d Dark Sui	. ,			w Dark Surface (TF12)
Sandy Mucky Mineral (S1)		Depression				ain in Remarks)
2.5 cm Mucky Peat or F			ains Depre				drophytic vegetation and
5 cm Mucky Peat or Pe	at (S3) (LRR F)	(ML	RA 72 & 7	3 of LRR	H)		rology must be present,
Restrictive Layer (if prese	m4\s			,		unless distu	rbed or problematic.
	-						
						Undia Call Day	
Depth (inches):						Hydric Soli Pres	ent? Yes No ✓
Remarks:	adov foaturos	wore observed. U	owover t	ho motris	, ia naitha	an dark par daniak	ed. Hydric soil criterion is not
met.	edox leatures	were observed. II	owever, t	ne maux	is neime	er dark nor depiete	ea. Hydric soil criterion is not
HYDROLOGY							
Wetland Hydrology Indica	tors:				···		
Primary Indicators (minimur	n of one require	d; check all that appl	y)	_		Secondary Inc	dicators (minimum of two required)
Surface Water (A1)		Salt Crust	(B11)				Soil Cracks (B6)
High Water Table (A2)		Aquatic In	vertebrates	s (B13)			Vegetated Concave Surface (B8)
Saturation (A3)		Hydrogen					Patterns (B10)
Water Marks (B1)		Dry-Seaso	n Water Ta	able (C2)			Rhizospheres on Living Roots (C3)
Sediment Deposits (B2))	Oxidized F	Rhizospher	es on Livi	ng Roots ((C3) (where	tilled)
Drift Deposits (B3)		(where r	not tilled)			Crayfish E	Burrows (C8)
Algal Mat or Crust (B4)		Presence	of Reduced	d Iron (C4))	Saturation	n Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Thin Muck				✓ Geomorp	hic Position (D2)
Inundation Visible on A		7) Other (Exp	olain in Rer	narks)		FAC-Neu	tral Test (D5)
Water-Stained Leaves ((B9)					Frost-Hea	ave Hummocks (D7) (LRR F)
Field Observations:		,					-
Surface Water Present?		No 🗸 Depth (in:					
Water Table Present?		No 🗸 Depth (ind					
Saturation Present?	Yes	No <u>✓</u> Depth (inc	ches):		_ Wetla	and Hydrology Pres	sent? Yes No ✓
(includes capillary fringe) Describe Recorded Data (st	ream daude imm	nitorino well aerial r	photos pre	vious iner	ections) i	if available	
Aerial photos: 2012, 20					00110), 1	. aranasıd.	
Remarks:	, 2000 20						
Data point is on Floodplai	in Zone A: how	vever site is on slic	ihtly eleva	ated area	Wetlan	id hydrology crifor	ion is not met
_ atta point to off I looopide	0.10 ; 1, (101		01046			a riyarology ontel	ion to not mot,
							_

Project/Site: 130 Environmental Park		City/Cou	_{intv:} Lockhai	rt/Caldwell	Sampling Date: 06/26/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T14-DP9
			Township, Ra		Sumpling Forms.
Landform (hillslope, terrace, etc.): Floodplain					
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: FeE - Fett gravelly soils, 1-12					
Are climatic / hydrologic conditions on the site typical for th	is time of ye	ar? Yes	. <u>√</u> No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology	significantly	disturbe	d? Are "	'Normal Circumstances" p	oresent? Yes ✓ No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic	? (If ne	eded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	samp	ling point l	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ N	No.				
Hydric Soil Present? Yes N	4o √		s the Sampled		n ./
Wetland Hydrology Present? Yes N	40 ✓	"	vitnin a Wetlar	nd? Yes	No <u>*</u>
Remarks:				*	
Cedar elm woods adjacent to channel.					
VEGETATION – Use scientific names of plar					
Tree Stratum (Plot size: 30'	Absolute % Cover	_ +	ant Indicator es? Status	Dominance Test work	
1. Ulmus crassifolia		Yes	FAC	Number of Dominant Sp That Are OBL, FACW, of	
2				(excluding FAC-):	3 (A)
3.				Total Number of Domina	ant
4		-		Species Across All Stra	_
	#O	= Total	Cover	Deposit of Demiser Co	
Sapling/Shrub Stratum (Plot size: 15'				Percent of Dominant Sp That Are OBL, FACW, or	
1. Rhus lanceolata	10	Yes	UPL	Dunanta and the state of the st	
2	_			Prevalence Index work	
3					Multiply by: x 1 =
4					x 1 =
5					x3 =
Herb Stratum (Plot size: 5'	10	= Total	Cover		x 4 =
1. Elymus virginicus	50	Yes	FAC	UPL species	
2. Carex brevior	15	Yes	FAC		(A) (B)
3	-			- Totals.	(b)
4				Prevalence Index	= B/A =
5.				Hydrophytic Vegetation	on Indicators:
6				1 - Rapid Test for F	
7.				✓ 2 - Dominance Tes	
8				3 - Prevalence Inde	
9				4 - Morphological A	daptations ¹ (Provide supporting sor on a separate sheet)
10					phytic Vegetation ¹ (Explain)
	65	= Total	Cover		, ,
Woody Vine Stratum (Plot size: 30'	16	W.	E + OVI	¹ Indicators of hydric soil be present, unless distu	and wetland hydrology must
1. Smilax bona-nox	15	Yes	FACU	pe present, unless distu	прод от ртовлениаль.
2				Hydrophytic	
% Bare Ground in Herb Stratum 35	15	= Total	Cover	Vegetation Present? Yes	s <u>√</u> No
Remarks:				1	
Cedar elm transition with open, grazed understory.	Hydrophyi	tic veae	tation criterio	n is met.	
) = - F)	3-			

	Matrix			x Feature	es			
(inches) 0-1	Color (moist) 10 YR 3/1	<u>%</u> 100	Color (moist)	%	Type ¹	Loc ²	Clay	Remarks
			40 VD 0/0				Clay	
2-10	10 YR 4/4		10 YR 3/2	30	<u> </u>	<u>M</u>		Claypan
						ī		
			=Reduced Matrix, C			d Sand G		cation: PL=Pore Lining, M=Matrix.
-		icable to all	LRRs, unless othe					for Problematic Hydric Soils ³ :
Histoso				•	atrix (S4)			Muck (A9) (LRR I, J)
	pipedon (A2) istic (A3)			Redox (S				Prairie Redox (A16) (LRR F, G, H)
	en Sulfide (A4)		· ·	d Matrix (Mucky Mi	neral (F1)			urface (S7) (LRR G) lains Depressions (F16)
	d Layers (A5) (LRR	(F)		-	atrix (F2)			R H outside of MLRA 72 & 73)
	Jck (A9) (LRR F, G	,		d Matrix				ed Vertic (F18)
Deplete	d Below Dark Surfa	ice (A11)	Redox	Dark Surf	ace (F6)		Red Pa	arent Material (TF2)
	ark Surface (A12)				urface (F7)			hallow Dark Surface (TF12)
	Mucky Mineral (S1)	(00) (I DD		Depressio	. ,	40)		Explain in Remarks)
	Mucky Peat or Peat ucky Peat or Peat (3				essions (F 73 of LRR	•		of hydrophytic vegetation and
5 6111 1011	icky real of real (33) (LKK i)	(IAIT	KA 12 0.	73 OI ERN	п;		d hydrology must be present, disturbed or problematic.
Restrictive	Layer (if present):						1	distarbed of problemate.
Type: Ha								
71· · —								
Depth (in	ches): 10						Hydric Soil	Present? Yes No √
Depth (in Remarks:								Present? Yes No ✓
Remarks: from 2-10 i	nches, 30% redo	x features	were observed, ho	wever, t	he matrix	is neithe		Present? Yes No Dleted. Hydric soil criterion is not
Remarks: from 2-10 i net.	nches, 30% redo	x features	were observed, ho	wever, t	he matrix	is neithe		
Remarks: from 2-10 inet.	nches, 30% redo		were observed, ho	wever, t	he matrix	is neithe		
Remarks: from 2-10 inet. YDROLO Wetland Hy	nches, 30% redo GY drology Indicators	3:	were observed, ho		he matrix	is neithe	er dark nor dep	
Remarks: rom 2-10 i net. YDROLO Vetland Hy Primary India	nches, 30% redo GY drology Indicators	3:		y)	he matrix	is neithe	er dark nor dep	oleted. Hydric soil criterion is not
Remarks: rom 2-10 i net. YDROLO Vetland Hy Primary India Surface	nches, 30% redo GY drology Indicators cators (minimum of	3:	d; check all that appl	y) (B11)		is neithe	er dark nor dep Seconda	oleted. Hydric soil criterion is not
Remarks: from 2-10 i net. YDROLO Vetland Hy Primary India Surface	GY drology Indicators eators (minimum of Water (A1) iter Table (A2)	3:	d; check all that appl	y) (B11) vertebrate	es (B13)	is neithe	Seconda Surfi Spai	oleted. Hydric soil criterion is not ry Indicators (minimum of two required) ace Soil Cracks (B6)
Remarks: From 2-10 inet. YDROLO Wetland Hy Primary India Surface High Wa Saturati Water M	GY drology Indicators eators (minimum of Water (A1) ster Table (A2) on (A3) larks (B1)	3:	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seasc	y) (B11) vertebrate Sulfide O n Water	es (B13) dor (C1) Fable (C2)		Seconda Seconda Surfi Spai Draii	oleted. Hydric soil criterion is not ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8)
Remarks: From 2-10 inet. YDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer	GY drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2)	3:	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F	y) (B11) vertebrate Sulfide O n Water ¹ Rhizosphe	es (B13) dor (C1) Fable (C2) res on Liv		Seconda Seconda Surfi Spai Draii Oxid (C3) (w	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C3)
Remarks: from 2-10 i net. YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3)	3:	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	y) (B11) vertebrate Sulfide O n Water ¹ khizosphe not tilled)	es (B13) dor (C1) Fable (C2) rres on Liv	ng Roots	Seconda Seconda Surfi Spai Draii Oxid (C3) (w	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C3) here tilled) rfish Burrows (C8)
Remarks: From 2-10 inet. YDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma	GY drology Indicators cators (minimum of Water (A1) hter Table (A2) on (A3) larks (B1) ht Deposits (B2) posits (B3) at or Crust (B4)	3:	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I	y) (B11) vertebrate Sulfide O in Water Rhizosphe not tilled of Reduce	es (B13) dor (C1) Fable (C2) eres on Livi	ng Roots	Seconda Seconda Surfi Spai Draii Oxid (C3) (w Cray Satu	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C3) here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9)
Remarks: From 2-10 inet. YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimel Drift Dep Algal Ma	GY drology Indicators cators (minimum of Water (A1) hter Table (A2) on (A3) larks (B1) ht Deposits (B2) posits (B3) at or Crust (B4) hosits (B5)	s: one require	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I	y) (B11) vertebrate Sulfide O n Water Rhizosphe not tilled) of Reduce Surface	es (B13) dor (C1) Fable (C2) rres on Liv ed Iron (C4	ng Roots	Seconda Seconda Surfi Spai Drain Oxid (C3) (w Cray Satu	oleted. Hydric soil criterion is not ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Remarks: from 2-10 i net. YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der	GY drology Indicators eators (minimum of Water (A1) her Table (A2) on (A3) larks (B1) ht Deposits (B2) posits (B3) at or Crust (B4) hosits (B5) on Visible on Aerial	one require	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I	y) (B11) vertebrate Sulfide O n Water Rhizosphe not tilled) of Reduce Surface	es (B13) dor (C1) Fable (C2) rres on Liv ed Iron (C4	ng Roots	Seconda Seconda Surfi Spai Drain Oxid (C3) (w Cray Satu Geo FAC	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsety Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C3) here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5)
Remarks: from 2-10 inet. YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Water-S	GY drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial tained Leaves (B9)	one require	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I	y) (B11) vertebrate Sulfide O n Water Rhizosphe not tilled) of Reduce Surface	es (B13) dor (C1) Fable (C2) rres on Liv ed Iron (C4	ng Roots	Seconda Seconda Surfi Spai Drain Oxid (C3) (w Cray Satu Geo FAC	oleted. Hydric soil criterion is not ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Remarks: rom 2-10 i net. YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Water-S	GY drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial tained Leaves (B9) vations:	i: one require	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck 7) Other (Exp	y) (B11) verlebrate Sulfide O n Water Rhizosphe not tilled of Reduce Surface	es (B13) dor (C1) Fable (C2) res on Livi ed Iron (C4 (C7) emarks)	ng Roots	Seconda Seconda Surfi Spai Drain Oxid (C3) (w Cray Satu Geo FAC	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsety Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C3) here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5)
Remarks: From 2-10 inet. YDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedime Drift Dep Algal Ma Iron Dep Inundatia Water-S Field Obser	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present?	s: one require	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F (where I Presence Thin Muck 7) Other (Exp	y) (B11) vertebrate Sulfide O n Water Rhizosphe not tilled of Reduce Surface olain in Re	es (B13) dor (C1) Fable (C2) res on Liv ed Iron (C4 (C7) emarks)	ng Roots	Seconda Seconda Surfi Spai Drain Oxid (C3) (w Cray Satu Geo FAC	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsety Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C3) here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5)
Remarks: From 2-10 inet. YDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Water-S Field Obser Surface Water	GY drology Indicators cators (minimum of Water (A1) hter Table (A2) on (A3) larks (B1) ht Deposits (B2) oosits (B3) at or Crust (B4) hosits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present?	s: one require Imagery (B Yes	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck 7) Other (Exp	y) (B11) vertebrate Sulfide O in Water chizosphe not tilled of Reduce Surface clain in Re ches): ches):	es (B13) dor (C1) Fable (C2) res on Livi ed Iron (C4 (C7) emarks)	ng Roots	Seconda Seconda Surfi Spai Oxid (C3) (w Cray Satu Geo FAC	ry Indicators (minimum of two required) ace Soil Cracks (B6) reely Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C3 here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Remarks: From 2-10 inet. YDROLO Wetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Water-S Field Obser Surface Water Table Saturation Princludes car	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) asits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	one require Imagery (B Yes Yes	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F (where I Presence Thin Muck 7) Other (Exp	y) (B11) vertebrate Sulfide O in Water Rhizosphe not tilled of Reduce Surface clain in Re ches): ches): ches):	es (B13) dor (C1) Fable (C2) res on Livi ed Iron (C4 (C7) emarks)	ng Roots)	Seconda Seconda Surfi Spai Oxid (C3) (w Cray Satu FAC Fros	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsety Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C3) here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5)
Remarks: From 2-10 inet. YDROLO Wetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Water-S Field Obser Surface Water Table Saturation Princludes car	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) asits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	one require Imagery (B Yes Yes	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck 7) Other (Exp	y) (B11) vertebrate Sulfide O in Water Rhizosphe not tilled of Reduce Surface clain in Re ches): ches): ches): ches):	es (B13) dor (C1) Fable (C2) res on Livi ed Iron (C4 (C7) emarks)	ng Roots)	Seconda Seconda Surfi Spai Oxid (C3) (w Cray Satu FAC Fros	oleted. Hydric soil criterion is not ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Remarks: From 2-10 inet. YDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimen Drift Dep Inundati Water-S Field Obser Surface Water Table Saturation Princludes cap Describe Remarks:	GY drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) assits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present?	one require Imagery (B Yes Yes The gauge, mo	d; check all that appl Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck 7) Other (Exp	y) (B11) vertebrate Sulfide O n Water Chizosphe not tilled of Reduce Surface ches): ches): ches):	es (B13) dor (C1) Fable (C2) res on Livi ed Iron (C4 (C7) emarks)	ng Roots) Wetle	Seconda Seconda Surfi Spai Oxid (C3) (w Cray Satu Geor FAC Fros	ry Indicators (minimum of two required) ace Soil Cracks (B6) reely Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C3) here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Pa	rk	+	City/C	ounty:	Lockha	rt/Caldwell	Samplin	g Date: 00	6/26/2013
Applicant/Owner: 130 Environmenta						State: TX			
Investigator(s): Troegle, Josh & Boe							- '		
Landform (hillslope, terrace, etc.): Swal						convex, none): Conca	ve	Slope	- (%): O
Subregion (LRR): J - Southwestern					•				. ,
Soil Map Unit Name: W - Water						NWI classif			
Are climatic / hydrologic conditions on the	e site typical for t	this time of ve	ar? Y						
Are Vegetation, Soil, or H						"Normal Circumstances"			No
Are Vegetation, Soil, or H						eeded, explain any answ			140
SUMMARY OF FINDINGS – Att								,	tures, etc.
Hydrophytic Vagotation Brancht?	Yes <u></u> ✓	Mo							
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes <u>✓</u>				e Sampled				
Wetland Hydrology Present?	Yes 🗸			with	in a Wetlar	nd? Yes_▼	No		
Remarks:									
Emergent wetland in shallow swale	of upper drain	age of lake.							
VEGETATION – Use scientific	names of pla	ants.							
Tree Stratum (Plot size: 30'		Absolute			Indicator	Dominance Test wor			
<u> </u>	·	% Cover				Number of Dominant That Are OBL, FACW			
1						(excluding FAC-):	, or FAC	_1	(A)
3						Total Number of Dom	inant		
4.						Species Across All St		1	(B)
			= Tota	al Cov	er	Percent of Dominant	Species		
Sapling/Shrub Stratum (Plot size: 15')					That Are OBL, FACW		100	(A/B)
1						Prevalence Index wo	orksheet:		
2						Total % Cover of:		Multiply !	bv:
3						OBL species			
4 5.						FACW species			
J			= Tota	al Cov	/er	FAC species	x	3 =	
Herb Stratum (Plot size: 5')			a. 001		FACU species	x	4 =	
1. Eleocharis palustris		95	Yes		OBL		x		
2. Phalaris caroliniana			No		FACW	Column Totals:	(A	·)	(B)
3. Persicaria pensylvanicum	_		No		FACW	Prevalence Inde	x = B/A =		
4. Carex brevior	·	_ <u>-</u>	No		FAC	Hydrophytic Vegetat			
5						1 - Rapid Test for	Hydrophy	lic Vegetati	ion
6						✓ 2 - Dominance Tell	est is >50%	,	
7						3 - Prevalence In	dex is ≤3.0	1	
8 9						4 - Morphological	Adaptation	ns¹ (Provid	e supporting
10						data in Remar			•
		4.00	= Tota	al Cov	er				,
Woody Vine Stratum (Plot size: 30')					¹ Indicators of hydric s be present, unless dis	oil and wet	land hydrol	logy must
1						be present, unless dis		orobiematic	
2						Hydrophytic			
% Bare Ground in Herb Stratum 0			= Tota	al Cov	/er	Vegetation Present? Y	es_ <u>√</u>	No	
Remarks:									
Emergent wetland swale is dominat	ed by herbace	ous species	, mos	tly sp	ikerush.	Hydrophytic vegetatio	n criterior	n is met.	
	-			·		-			

Sampling Point: T14-DP10

		п	n
3	U	1	L

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confir	m the absence of ir	ndicators.)
Depth	Matrix			x Feature	S		_	
(inches)	Cofor (moist)	%	Color (moist)	%	Type	Loc ²		Remarks
0-8	10 YR 2/1	90	5 YR 5/8	10	<u> </u>	<u>M</u>	Clay	
9-16	10 YR 3/1	65	10 YR 5/2	35	С	М		
i ——								
				·			- -	
-								
¹Type: C=Co	ncentration. D=Dec	- ——— letion. RM=	Reduced Matrix, CS	S=Covere	d or Coate	ed Sand G	Frains ² Location	n: PL=Pore Lining, M=Matrix.
			LRRs, unless other			od Danid C		Problematic Hydric Soils ³ :
Histosol				eleyed Ma				(A9) (LRR I, J)
Histic Ep	ipedon (A2)			Redox (S5				ie Redox (A16) (LRR F, G, H)
Black His			Stripped	Matrix (S	66)		Dark Surfac	ce (S7) (LRR G)
1	n Sulfide (A4)				neral (F1)		High Plains	Depressions (F16)
1	Layers (A5) (LRR I			Gleyed Ma				outside of MLRA 72 & 73)
	ck (A9) (LRR F, G, l l Below Dark Surfac			d Matrix (Reduced V	, ,
ı —	rk Surface (A12)	e (ATT)	✓ Redox Depleted		ice (F6) irface (F7)	١	Red Parent	material (TF2) w Dark Surface (TF12)
l —	ucky Mineral (S1))epressio		,		ain in Remarks)
	lucky Peat or Peat (S2) (LRR G			essions (F	16)		drophytic vegetation and
5 cm Mu	cky Peat or Peat (S	3) (LRR F)	(MLI	RA 72 & 1	73 of LRR	: H)		Irology must be present,
							unless distu	rbed or problematic.
	ayer (if present):							
								,
Depth (inc	hes):						Hydric Soil Pres	sent? Yes ✓ No
Remarks:							· · · · · · · · · · · · · · · · · · ·	
Hydric soil c	riterion is met.							
HYDROLOG	3Y						-	
	rology Indicators:							
			. = - = . = . .					
	· ·	ne requirea	; check all that apply				· -	dicators (minimum of two required)
	Vater (A1)		Salt Crust ((= 40)			Soil Cracks (B6)
	er Table (A2)		Aquatic Inv		, ,			Vegetated Concave Surface (B8)
Saturatio			Hydrogen S		, ,		=	Patterns (B10)
Water Ma	t Deposits (B2)		Dry-Seasor		` '			Rhizospheres on Living Roots (C3)
	osits (B3)		(where n	•	ies on Livi	ing Roots	, ,	,
l —	or Crust (B4)		Presence o	,	d Iron /C/	13		Burrows (C8) n Visible on Aerial Imagery (C9)
Iron Depo			Thin Muck		•	')	,	hic Position (D2)
	n Visible on Aerial II	magery (B7		•	,			tral Test (D5)
	ained Leaves (B9)	magery (b)	Out (Exp	idiii iii i ko	marka)		_	ave Hummocks (D7) (LRR F)
Field Observ								Tre Hammoeks (B7) (ERRT)
Surface Wate		es N	lo 🗸 🔃 Depth (inc	hes).				
Water Table F			lo Depth (inc					
Saturation Pre			lo 🗸 Depth (inc				land Hydrology Pro	sent? Yes ✓ No
(includes capi	llary fringe)					_		sent? Tes No
Describe Rec	orded Data (stream		nitoring well, aerial p			pections),	, if available:	
Aerial Photo	ography: 2012,	2010, 20	08-2009, 2005, 2	2004, 19	996			
Remarks:								
Data point is	in a very gentle s	wale. Site	is on Floodplain 2	Zone A.	Saturation	on is visi	ble on aerial image	ery from several years (1996,
2010, and 20	112), but is not vis	ible in all y	ears. Wetland hy	drology	criterion	is met.		
			<u> </u>					

Project/Site: 130 Environmental Park		Citv/C	ounty: Lockha	rt/Caldwell	Sampling Date:	06/26/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
			on, Township, Ra		_ Camping roint	
				convex, none): None		ana (0/). 1
Subregion (LRR): J - Southwestern Prairies	Lat: <u>49</u>	.30				
Soil Map Unit Name: W - Water				NWI classifi		vallable
Are climatic / hydrologic conditions on the site typical for						,
Are Vegetation, Soil, or Hydrology	_ significantiy	distur	ped? Are	"Normal Circumstances"	present? Yes <u>√</u>	No
Are Vegetation, Soil, or Hydrology	_ naturally pro	blema	itic? (If ne	eeded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	p showing	sam	pling point l	ocations, transect	s, important f	eatures, etc
Lu tout ii Vontaiin Brood Vont	NI.					
Hydrophytic Vegetation Present? Yes ✓ Hydric Soil Present? Yes	No V		Is the Sampled		,	
Wetland Hydrology Present? Yes	No ✓		within a Wetla	nd? Yes	No_ <u>√</u>	_
Remarks:						
Upland meadow adjacent to wetlands at upper re-	aches of lake	€.				
	_			·		
VEGETATION – Use scientific names of pl						
<u>Tree Stratum</u> (Plot size: 30'	Absolute % Cover		inant Indicator cies? Status	Dominance Test wor		
1.				Number of Dominant S That Are OBL, FACW,	•	
2				(excluding FAC-):	2	(A)
3.				Total Number of Domi	nant	
4				Species Across Ali Str	ata: <u>3</u>	(B)
			al Cover	Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size: 15')				That Are OBL, FACW,		(A/B)
1. Ulmus crassifolia		Yes	FAC	Prevalence Index wo	rksheet	
2				Total % Cover of:		alv bv·
3				OBL species	_	
4			· 	FACW species		
5			-1.0	FAC species		
Herb Stratum (Plot size: 5')		_= 101	al Cover	FACU species		
1. Cynodon dactylon	50	Yes	FACU	UPL species		
2. Carex brevior	50	Yes	FAC	Column Totals:	(A)	(B)
3. Rumex altissimus	10	No	FAC	D	D/A	
4. Cardiospermum halicacabum	5	No	FAC	Hydrophytic Vegetat	x = B/A =	
5. Croton monanthogynus	2	No	UPL	• • •		dation
6. Eleocharis engelmannii	2	No	FACW	1 - Rapid Test for ✓ 2 - Dominance Te	, , ,	etation
7				3 - Prevalence Inc		
8				4 - Morphological		vide cupporting
9				data in Remark	ks or on a separat	e sheet)
10				Problematic Hydro	ophytic Vegetation	n¹ (Explain)
Woody Vine Stratum (Plot size: 30'	119	= Tot	al Cover	¹ Indicators of hydric so	and wetland hu	drology must
				be present, unless dis		
1				Lively and hydrin		
2		- Tot	al Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 0		_ 100	al Covei	Present? Ye	es <u>√</u> No_	
Remarks:						
Herbaceous upland meadow dominated by bermu	udagrass and	d sed	ge. Hydrophyti	ic vegetation criterion i	s met.	

SOIL Sampling Point: T14-DP11

Profile Description: (D	escribe to the	depth needed to do	ocument the	indicator	or confir	m the absence of in	dicators.)
	Matrix		Redox Feature		. 2	- .	
(inches) Color (n 0-6 10 YR 2/) %	Type ¹	_Loc ²	Texture	Remarks
		 				Clay	
6-10 10 YR 4/3	95	5 YR 5/8	5	<u> </u>	M		
		<u> </u>					
¹ Type: C=Concentration					d Sand G	rains. ² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	(Applicable to	all LRRs, unless o	therwise not	ted.)			Problematic Hydric Soils ³ :
Histosol (A1)		San	idy Gleyed Ma	atrix (S4)		1 cm Muck	(A9) (LRR I, J)
Histic Epipedon (A2)			idy Redox (St				e Redox (A16) (LRR F, G, H)
Black Histic (A3)			pped Matrix (S				e (S7) (LRR G)
Hydrogen Sulfide (A-			my Mucky Mi				Depressions (F16)
Stratified Layers (A5 1 cm Muck (A9) (LRI			my Gleyed M leted Matrix (Reduced Ve	outside of MLRA 72 & 73)
Depleted Below Dark			lox Dark Surfa			_	Material (TF2)
Thick Dark Surface (`	_	leted Dark Su		ı		w Dark Surface (TF12)
Sandy Mucky Minera	l (S1)		lox Depressio				ain in Remarks)
2.5 cm Mucky Peat of			h Plains Depr	essions (F	16)	³ Indicators of hy	drophytic vegetation and
5 cm Mucky Peat or	Peat (S3) (LRF	R F)	(MLRA 72 &	73 of LRR	H)		rology must be present,
Dantainting Laura /if and						unless distu	rbed or problematic.
Restrictive Layer (if pre	sent):						
Type:							
Depth (inches):		<u> </u>		_		Hydric Soil Pres	ent? YesNo_ <u>✓</u>
Remarks:						201	
not met.	redox concer	itrations were obse	erved; howe	ver, the n	natrix wa	s neither dark not	depleted. Hydric soil criterion is
Wet moti							
HYDROLOGY							
Wetland Hydrology Indi	cators:	-					
Primary Indicators (minim	um of one req	uired; check all that a	apply)			Secondary Inc	dicators (minimum of two required)
Surface Water (A1)		Salt Cr	rust (B11)			Surface S	Soil Cracks (B6)
High Water Table (A2	2)	Aquati	c Invertebrate	s (B13)		Sparsely	Vegetated Concave Surface (B8)
Saturation (A3)		Hydrog	gen Sulfide O	dor (C1)			Patterns (B10)
Water Marks (B1)		Dry-Se	eason Water 1	Γable (C2)		Oxidized	Rhizospheres on Living Roots (C3)
Sediment Deposits (I	32)	Oxidiz	ed Rhizosphe	res on Livi	ng Roots	(C3) (where	tilled)
Drift Deposits (B3)		(whe	ere not tilled)			Crayfish E	Burrows (C8)
Algal Mat or Crust (B	4)	Preser	nce of Reduce	ed Iron (C4	.)	Saturation	n Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Thin M	luck Surface ((C7)		✓ Geomorp	hic Position (D2)
Inundation Visible on	Aerial Imagery	(B 7) Other	(Explain in Re	emarks)		FAC-Neu	tral Test (D5)
Water-Stained Leave	s (B9)					Frost-Hea	ave Hummocks (D7) (LRR F)
Field Observations:					The state of the s		
Surface Water Present?		No <u>√</u> Depth					
Water Table Present?		No ✓ Depth					
Saturation Present?	Yes	No <u>√</u> Depth	ı (inches):		_ Wetl	laпd Hydrology Pre	sent? Yes No_✓
(includes capillary fringe) Describe Recorded Data	etroam gaugo	monitoring well see	rial photos, pr	ovioue inc	noctions)	if available:	
Aerial photography: 2					paciions),	ii avallable.	
Remarks:	.012, 2010,	2555-2555, 255-	-, 2004, 18	,30			
	evation than	adiacent emercen	t wetland - F	ata noint	is on Ek	oodolain Zone A. b	owever no other hydrology
indicators were observe				rata poilit	io on i'il	Jouplain Zone A, II	owever no other hydrology

		City/Cou	ınty: Lockhai	rt/Caldwell	Sampling Date: <u>06/26/2013</u>
Applicant/Owner: 130 Environmental Park, LLC				State: TX	Sampling Point: T14-DP12
Investigator(s): Troegle, Josh & Boe, Brian		Section.	, Township, Rai	nge: NA	
Landform (hillslope, terrace, etc.): Mound in floodplai	-		•		Slone (%): 0
Subregion (LRR): J - Southwestern Prairies					
	Lat: <u>43</u> .				
Soil Map Unit Name: W - Water				NWI classific	cation: None available
Are climatic / hydrologic conditions on the site typical for the	nis time of ye	ar? Yes	i <u>√</u> No _	(If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly	disturbe	d? Are *	Normal Circumstances"	present? Yes ✓ No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic	c? (If ne	eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map				-	,
Hydrophytic Vegetation Present? Yes ✓	No				
Hydric Soil Present? Yes	No		s the Sampled		
Wetland Hydrology Present? Yes ✓		٧ ا	vithin a Wetlar	nd? Yes <u>▼</u>	No
Remarks:					
Stand of green ash and willow on mound adjacent	to channel	of uppe	r reaches of l	ake.	
,		• •			
VEGETATION Use scientific names of pla	nts.				
201	Absolute	Domin	ant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 30'			es? Status	Number of Dominant S	pecies
1. Fraxinus pennsylvanica	35	Yes	FAC	That Are OBL, FACW,	^
2				(excluding FAC-):	<u>Z</u> (A)
3				Total Number of Domir	0
4				Species Across All Stra	ata: <u>3</u> (B)
151	35	= Total	Cover	Percent of Dominant S	pecies
Sapling/Shrub Stratum (Plot size: 15')	40	V-a	EAC	That Are OBL, FACW,	
1. Fraxinus pennsylvanica		Yes	FAC	Prevalence Index wor	ksheet.
2					Multiply by:
3				f	x 1 =
4				1	×2 =
5					x 3 =
Herb Stratum (Plot size: 5'	40	= Total	Cover	T .	x 4 =
Herb Stratum (Plot size: 3				UPL species	
1.				i	
2				Column rotals.	(A) (B)
3.				Prevalence Index	: = B/A =
4				Hydrophytic Vegetati	
5				1 - Rapid Test for	Hydrophytic Vegetation
6.				✓ 2 - Dominance Tes	st is >50%
7				3 - Prevalence Ind	ex is ≤3.0 ¹
8				. —	Adaptations ¹ (Provide supporting
9				data in Remark	s or on a separate sheet)
10				Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30'		= Total	Cover	¹ Indicators of hydric so	il and wetland hydrology must
Darkara taini alia	40	Yes	FACU	be present, unless dist	urbed or problematic.
				Harden also de	
2	40		Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 100	-70	= Total	Cover	Present? Ye	s <u>√</u> No
Remarks:					<u> </u>
Small stand of forested wetland. Canopy is mostly	trees at 3-4	1-inches	s diameter. N	lumerous saplings. H	ydrophytic vegetation
criterion is met.				1 9	, , -g

SOIL Sampling Point: T14-DP12

(inches)	Matrix			dox Featur				
	Color (moist)	%	Color (maist)	%_	_Type ¹ _	Loc2		Remarks
0-6	10 YR 2/1	100	<u> </u>				Clay	
6-12	10 YR 3/1	75	10 YR 5/3	25	C	М		
			10 YR 4/6	1	C	PL		
								
			-				·	
	·							
1Tuno: C=C	anachtration D=D	DA	/=Reduced Matrix,			1010	21	D. D
			II LRRs, unless ot			Sand G		PL=Pore Lining, M=Matrix. roblematic Hydric Soils ³ :
Histosol		louble to u		ly Gleyed M	•			•
	oipedon (A2)			ly Redox (S			1 cm Muck (,	Redox (A16) (LRR F, G, H)
Black Hi				oed Matrix (Dark Surface	
	en Sulfide (A4)			ny Mucky M	,			Depressions (F16)
Stratified	Layers (A5) (LRR	R F)		ny Gleyed M	, ,			utside of MLRA 72 & 73)
	ick (A9) (LRR F, G		_ '	eted Matrix	, ,		Reduced Ve	-
	d Below Dark Surfa	ice (A11)	_	x Dark Surf				Material (TF2)
	ark Surface (A12)		-	eted Dark S				Dark Surface (TF12)
	lucky Mineral (S1)			x Depressio		0)		in in Remarks)
	/lucky Peat or Peat icky Peat or Peat (3			Plains Depr	,	,		rophytic vegetation and
5 6111 1010	icky real of real (33) (LKK F	<i>)</i> (1	WILKA 12 &	73 OI LKK	Π)		ology must be present, bed or problematic.
Restrictive I	_ayer (if present):						dilicas distai	bed of problematic.
	ches):						Hudria Cail Dress	ent? Yes <u>√</u> No
							Hydric Soil Frese	ntr res - No
Remarks:	uitarian ia mat							
rryunc son c	riterion is met.							
IYDROLO	GY							
Wetland Hyd	drology Indicators		od: chock all that ar	anly)			Soconday (Ind	
Wetland Hyd Primary Indic	drology Indicators ators (minimum of		ed; check all that ar				· ·	icators (minimum of two required)
Wetland Hyd Primary Indic Surface \	drology Indicators ators (minimum of Water (A1)		Salt Cru	ıst (B11)	(042)		Surface So	oil Cracks (B6)
Wetland Hyd Primary Indic Surface \ High Wa	drology Indicators eators (minimum of Water (A1) ter Table (A2)		Salt Cru Aquatic	ist (B11) Invertebrate			Surface So Sparsely \	oil Cracks (B6) /egetated Concave Surface (B8)
Wetland Hyd Primary Indic Surface N High Wa	drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3)		Salt Cru Aquatic Hydroge	ist (B11) Invertebrate en Sulfide O	dor (C1)		Surface So Sparsely \ Drainage B	oil Cracks (B6) regetated Concave Surface (B8) Patterns (B10)
Wetland Hyc Primary Indic Surface N High Wa Saturatio Water Ma	drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1)		Salt Cru Aquatic Hydroge Dry-Sea	ist (B11) Invertebrate en Sulfide O ason Water	dor (C1) Table (C2)		Surface Some Sparsely No Drainage For Oxidized For Some Sound States S	oil Cracks (B6) /egetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3
Wetland Hyc Primary Indic Surface N High Wa Saturatio Water Ma	drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) of Deposits (B2)		Salt Cru Aquatic Hydroge Dry-Sea Oxidized	ist (B11) Invertebrate en Sulfide O ison Water d Rhizosphe	dor (C1) Table (C2) eres on Livir	ng Roots	Surface So Sparsely V Drainage F Oxidized F (C3) (where t	oil Cracks (B6) /egetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 illed)
Wetland Hyc Primary Indic Surface N High Wa Saturatio Water Ma Sedimen Drift Dep	drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) of Deposits (B2) cosits (B3)		Salt Cru Aquatic Hydroge Dry-Sea Oxidized (wher	ist (B11) Invertebrate en Sulfide C ason Water d Rhizosphe e not tilled	dor (C1) Table (C2) eres on Livir)	J.	Surface So Sparsely V Drainage F Oxidized F (C3) (where t	oil Cracks (B6) /egetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 illed) urrows (C8)
Wetland Hyd Primary Indic Surface N High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma	drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4)		Salt Cru Aquatic Hydroge Dry-Sea Oxidized (wher Presence	ist (B11) Invertebrate en Sulfide Co son Water d Rhizosphe e not tilled se of Reduc	dor (C1) Table (C2) eres on Livir) ed Iron (C4)	J.	Surface So Sparsely V Drainage F Oxidized F (C3) (where t Crayfish B Saturation	oil Cracks (B6) /egetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9)
Wetland Hyd Primary Indic Surface N High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma	drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5)	one require	Salt Cru Aquatic Hydroge Dry-Sea Oxidized	ist (B11) Invertebrate en Sulfide O ason Water d Rhizosphe e not tilled be of Reducick Surface	dor (C1) Table (C2) Pres on Livir) Pred Iron (C4) (C7)	J.	Surface So Sparsely V Drainage I Oxidized F (C3) (where t Crayfish B Saturation Geomorph	oil Cracks (B6) regetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2)
Wetland Hyd Primary Indic Surface N High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Depo Inundation	drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4) on Visible on Aerial	one require	Salt Cru Aquatic Hydroge Dry-Sea Oxidized	ist (B11) Invertebrate en Sulfide Co son Water d Rhizosphe e not tilled se of Reduc	dor (C1) Table (C2) Pres on Livir) Pred Iron (C4) (C7)	J.	Surface So Sparsely N Drainage So Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr	oil Cracks (B6) (egetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) ral Test (D5)
Primary Indic Surface Note that the second of the second	drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) carks (B1) ot Deposits (B2) cosits (B3) t or Crust (B4) cosits (B5) on Visible on Aerial tained Leaves (B9)	one require	Salt Cru Aquatic Hydroge Dry-Sea Oxidized	ist (B11) Invertebrate en Sulfide O ason Water d Rhizosphe e not tilled be of Reducick Surface	dor (C1) Table (C2) Pres on Livir) Pred Iron (C4) (C7)	J.	Surface So Sparsely N Drainage So Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr	oil Cracks (B6) regetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2)
Wetland Hyc Primary Indic Surface N High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Inundatic Water-St Field Observ	drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) carks (B1) ot Deposits (B2) cosits (B3) ot or Crust (B4) cosits (B5) on Visible on Aerial cained Leaves (B9) vations:	one require	Salt Cru Aquatic Hydroge Dry-Sea Oxidized (wher Presenc Thin Mu 37) Other (E	Ist (B11) Invertebrate en Sulfide O eson Water d Rhizosphe e not tilled ee of Reduce ck Surface Explain in Re	dor (C1) Table (C2) eres on Livir) ed Iron (C4) (C7) emarks)		Surface So Sparsely N Drainage So Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr	oil Cracks (B6) (egetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) ral Test (D5)
Wetland Hyd Primary Indic Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Depo Inundatio Water-St Field Observ Surface Water	drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial cained Leaves (B9) rations: er Present?	one require	Salt Cru Aquatic Hydroge Dry-Sea Oxidized (wher Presenc Thin Mu Other (E	Invertebrate on Sulfide O ason Water of d Rhizosphe te not tilled the of Reduc- ick Surface explain in Ref (inches):	dor (C1) Table (C2) eres on Livir) ed Iron (C4) (C7) emarks)		Surface So Sparsely N Drainage So Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr	oil Cracks (B6) (egetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) ral Test (D5)
Wetland Hyd Primary Indic Surface Note of the primary Indic High Water Mater Mate	drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial cained Leaves (B9) car Present? Present?	one require Imagery (E	Salt Cru Aquatic Hydroge Dry-Sea ✓ Oxidized (wher Presenc Thin Mu Other (E	Ist (B11) Invertebrate en Sulfide O eson Water d Rhizosphe e not tilled ee of Reduce eck Surface explain in Re (inches): (inches):	dor (C1) Table (C2) eres on Livir) ed Iron (C4) (C7) emarks)		Surface So Sparsely N Drainage So Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr Frost-Hear	oil Cracks (B6) (egetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) ral Test (D5) // Hummocks (D7) (LRR F)
Wetland Hyc Primary Indic Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Inundatio Water-St Field Observ Surface Water Saturation Pro	drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) oosits (B3) of or Crust (B4) oosits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	one require Imagery (E	Salt Cru Aquatic Hydroge Dry-Sea Oxidized (wher Presenc Thin Mu Other (E	Ist (B11) Invertebrate en Sulfide O eson Water d Rhizosphe e not tilled ee of Reduce eck Surface explain in Re (inches): (inches):	dor (C1) Table (C2) eres on Livir) ed Iron (C4) (C7) emarks)		Surface So Sparsely N Drainage So Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr Frost-Hear	oil Cracks (B6) (egetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) ral Test (D5)
Wetland Hyd Primary Indic Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Depo Inundatio Water-St Field Observ Surface Vater Water Table I Saturation Pro (includes cap	drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial cained Leaves (B9) artions: ar Present? Present? esent? esent?	one require Imagery (E Yes Yes Yes	Salt Cru Aquatic Hydroge Dry-Sea ✓ Oxidized (wher Presend Thin Mu Other (E	Ist (B11) Invertebrate en Sulfide O eson Water d Rhizosphe e not tilled ee of Reduce eck Surface explain in Re (inches): (inches):	dor (C1) Table (C2) eres on Livir) ed Iron (C4) (C7) emarks)	- - - Weti	Surface So Sparsely N Oxidized F (C3) (where to Crayfish B Saturation FAC-Neutron Frost-Heav	oil Cracks (B6) (egetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) ral Test (D5) // Hummocks (D7) (LRR F)
Wetland Hyd Primary Indic Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Depo Inundatio Water-St Field Observ Surface Vater Water Table I Saturation Pro (includes cap	drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial cained Leaves (B9) artions: ar Present? Present? esent? esent?	one require Imagery (E Yes Yes Yes	Salt Cru Aquatic Hydroge Dry-Sea ✓ Oxidized (wher Presenc Thin Mu Other (E	Ist (B11) Invertebrate en Sulfide O eson Water d Rhizosphe e not tilled ee of Reduce eck Surface explain in Re (inches): (inches):	dor (C1) Table (C2) eres on Livir) ed Iron (C4) (C7) emarks)	- - - Weti	Surface So Sparsely N Oxidized F (C3) (where to Crayfish B Saturation FAC-Neutron Frost-Heav	oil Cracks (B6) (egetated Concave Surface (B8) Patterns (B10) (hizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F)
Wetland Hyc Primary Indic Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pro (includes cap) Describe Rec	drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial cained Leaves (B9) artions: ar Present? Present? esent? esent?	one require Imagery (E Yes Yes Yes	Salt Cru Aquatic Hydroge Dry-Sea ✓ Oxidized (wher Presend Thin Mu Other (E	Ist (B11) Invertebrate en Sulfide O eson Water d Rhizosphe e not tilled ee of Reduce eck Surface explain in Re (inches): (inches):	dor (C1) Table (C2) eres on Livir) ed Iron (C4) (C7) emarks)	- - - Weti	Surface So Sparsely N Oxidized F (C3) (where to Crayfish B Saturation FAC-Neutron Frost-Heav	oil Cracks (B6) (egetated Concave Surface (B8) Patterns (B10) (hizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F)
Wetland Hyc Primary Indic Surface N High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pro (includes cap) Describe Rec	drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial cained Leaves (B9) vations: er Present? Present? Present? esent? esent? illary fringe) corded Data (strear	one require Imagery (E Yes Yes Yes m gauge, m	Salt Cru Aquatic Hydroge Dry-Sea ✓ Oxidized (wher Presence Thin Mu Other (E	Invertebrate on Sulfide O sson Water of Rhizosphe on of tilled te of Reduct ock Surface explain in Re (inches): (inches): (inches):	dor (C1) Table (C2) eres on Livir) ed Iron (C4) (C7) emarks)	- Weti	Surface So Sparsely N Oxidized For Solition	oil Cracks (B6) /egetated Concave Surface (B8) /atterns (B10) Rhizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) ral Test (D5) /e Hummocks (D7) (LRR F)
Wetland Hyde Primary Indic Surface Note High Water Mater Mat	drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial cained Leaves (B9) vations: er Present? Present? Present? esent? esent? illary fringe) corded Data (strear	one require Imagery (E Yes Yes Yes m gauge, m	Salt Cru Aquatic Hydroge Dry-Sea ✓ Oxidized (wher Presence Thin Mu Other (E	Invertebrate on Sulfide O sson Water of Rhizosphe on of tilled te of Reduct ock Surface explain in Re (inches): (inches): (inches):	dor (C1) Table (C2) eres on Livir) ed Iron (C4) (C7) emarks)	- Weti	Surface So Sparsely N Oxidized F (C3) (where to Crayfish B Saturation FAC-Neutron Frost-Heav	oil Cracks (B6) /egetated Concave Surface (B8) /atterns (B10) Rhizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) ral Test (D5) /e Hummocks (D7) (LRR F)



Data Point 1 Lacustrine Fringe Wetlands



Data Point 2 Mesquite Woods



Data Point 3 Floodplain Meadows

T14 - Page 1



Data Point 4
Emergent Wetlands



Data Point 5 Emergent Wetlands



Data Point 6 Scrub/ Shrub Wetlands

T14 - Page 2



Data Point 6 Scrub/ Shrub Wetlands



Data Point 7 Floodplain Meadows



Data Point 8 Floodplain Meadows

T14 - Page 3



Data Point 9 Mesquite Woods



Data Point 10 Emergent Wetlands



Data Point 11 Floodplain Meadows

T14 - Page 4



Data Point 12 Riparian Woods (Green Ash/ Pecan)

THIS PAGE LEFT BLANK INTENTIONALLY

Project/Site: 130 Environmental Park		City/Cour	_{ntv:} Lockha	rt/Caldwell	Sampling Date: 06/	/24/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T1	
•			Township, Ra		(· 3 · · · · · · <u> · · · · · · · · · · · </u>	
Landform (hillslope, terrace, etc.): Fringe of lake					re Slone ((%)· 1
Subregion (LRR): J - Southwestern Prairies						
=				NWI classific	-	·
						IDIC .
Are climatic / hydrologic conditions on the site typical for the					•	
Are Vegetation, Soil, or Hydrology				"Normal Circumstances" r		_ No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic	? (1f n∈	eeded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sampl	ing point l	ocations, transects	, important featı	ures, etc.
Hydrophytic Vegetation Present? Yes ✓ 1	No.					
Hydric Soil Present? Yes 1	No		the Sampled			
1 .	No	w	ithin a Wetlar	nd? Yes <u>*</u>	No	
Remarks:						
Fringe of emergent wetland along western shore of	lake.					
VECETATION Line opiontific names of plan					-	
VEGETATION – Use scientific names of plan		Domina	ant Indicator	Dominance Test work	raha atu	
Tree Stratum (Plot size: 30'	Absolute <u>% Cover</u>		s? Status	Number of Dominant S		
1.				That Are OBL, FACW,	or FAC	
2				(excluding FAC+):	3	(A)
3				Total Number of Domin	^	
4	-			Species Across All Stra	ata: <u>3</u>	(B)
Sapling/Shrub Stratum (Plot size: 15'		= Total (Cover	Percent of Dominant S		
1. Sesbania drummondii	15	Yes	FACW	That Are OBL, FACW,	or FAC:	(A/B)
2.				Prevalence Index wor	ksheet:	
3				Total % Cover of:	Multiply by	<u>/:</u>
4.				OBL species	x 1 =	
5				FACW species		
77	15	= Total (Cover	FAC species		
Herb Stratum (Plot size: 5')	80	Vac	OBL	FACU species		
1. Eleocharis palustris 2. Persicaria pensylvanicum	20	Yes No	FACW		x 5 =	
3 Marsilea vestita	30	Yes	OBL	Column Totals:	(A)	(B)
				Prevalence Index	= B/A =	
5				Hydrophytic Vegetation	on Indicators:	
6				1 - Rapid Test for I	Hydrophytic Vegetation	n
7				✓ 2 - Dominance Tes		
8.				3 - Prevalence Inde		
9				4 - Morphological A	Adaptations ¹ (Provide : s or on a separate she	supporting
10				Problematic Hydro	,	-
201	130	= Total (Cover		. ,	, ,
Woody Vine Stratum (Plot size: 30')				¹ Indicators of hydric soil be present, unless distu		gy must
1						
2				Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 0		= 10tal (Jover	Present? Ye	s <u>√</u> No	_
Remarks:				,		
Emergent wetland fringe on shore of lake. Hydroph	nytic vegeta	ition crit	erion is met.			
						. <u>. </u>

SOIL
Sampling Point: T15-DP1
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redo	x Feature			ii the absence of	marcators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-1	10 YR 3/1	_ <u>80</u> _	5 YR 5/8 ————		<u> </u>	PL/M	Clay	
2-16	10 YR 2/1	80	5 YR 5/8	20	<u>C</u>	PL/M	Clay	
		 -						
			-	-				
<u> </u>								
	ncentration, D=Dep					d Sand G		on: PL=Pore Lining, M=Matrix.
	ndicators: (Applic	able to all L						Problematic Hydric Soils ³ :
Histosol	ipedon (A2)		Sandy G	edox (St				k (A9) (LRR I, J) irie Redox (A16) (LRR F, G, H)
Black His				Matrix (ace (S7) (LRR G)
1	n Sulfide (A4)		Loamy N	Jucky Mi	neral (F1)			s Depressions (F16)
I —	Layers (A5) (LRR I				atrix (F2)			l outside of MLRA 72 & 73)
_	ck (A9) (LRR F, G, I	•		d Matrix (Reduced \	1 /
	Below Dark Surfact rk Surface (A12)	e (ATT)	✓ Redox D		ace (F6) urface (F7)			nt Material (TF2) ow Dark Surface (TF12)
ı —	ucky Mineral (S1)		Redox D					ow bark surface (1712) plain in Remarks)
	lucky Peat or Peat (S2) (LRR G ,				16)	3Indicators of h	ydrophytic vegetation and
5 cm Mu	cky Peat or Peat (S	3) (LRR F)	(MLI	RA 72 &	73 of LRR	H)	-	drology must be present,
Do of violations I	/ifA\.						unless dis	turbed or problematic.
1	ayer (if present):							
	hes):						Hudria Cail Bua	No.
Remarks:	1165 j.			-			Hyuric Soil Pre	esent? Yes / No
	riterion is met.							
i i i yano oon o	itorioni io mot.							
						<u> </u>		
HYDROLOG	SY							
Wetland Hyd	rology Indicators:							
Primary Indica	ators (minimum of o	ne required;	check all that apply	/}			Secondary I	ndicators (minimum of two required)
_	Vater (A1)		Salt Crust (Surface	Soil Cracks (B6)
1	er Table (A2)		Aquatic Inv					y Vegetated Concave Surface (B8)
Saturatio			Hydrogen S				_	e Patterns (B10)
Water Ma	: Deposits (B2)		Dry-Seasor ✓ Oxidized R			na Boote (d Rhizospheres on Living Roots (C3)
Drift Dep			(where n	•		ng Roots (,	e tilled) Burrows (C8)
	or Crust (B4)		Presence o	,)		on Visible on Aerial Imagery (C9)
iron Depo			Thin Muck		•	,		phic Position (D2)
	n Visible o n Aerial li	magery (B7)	Other (Exp	lain in Re	marks)			utral Test (D5)
Water-Sta	ained Leaves (B9)						Frost-He	eave Hummocks (D7) (LRR F)
Field Observ	ations:							
Surface Wate			Depth (inc					
Water Table F			o <u>✓</u> Depth (inc					
Saturation Pro		es No	Depth (inc	hes):		_ Wetla	and Hydrology Pr	esent? Yes <u>✓</u> No
(includes capi Describe Rec	llary fringe) orded Data (stream	gauge, mon	itoring well, aerial p	hotos, pr	evious ins	pections).	if available:	
		5 0 0,		,				
Remarks:			-					
Data point is	located on fringe	of lake on	Floodplain Zone	A. Seve	ral indica	tors obse	erved. Wetland h	ydrology criterion is met.
						<u> </u>		

Project/Site: 130 Environmental Park		City/Co	ountv:	Lockha	rt/Caldwell	Sampling F	_{late} . 06/24	/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX Sampling Point: T15-D			
							O	
Landform (hillslope, terrace, etc.): Lake shore				-	-		Slone (%)	0
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: MaB - Mabank loam, 1-3% slo					NWI classific			
Are climatic / hydrologic conditions on the site typical for th							o available	-
							/	
Are Vegetation, Soil, or Hydrology					"Normal Circumstances"			
Are Vegetation, Soil, or Hydrology				,	eeded, explain any answe		,	
SUMMARY OF FINDINGS – Attach site map	showing	sam	pling	g point I	ocations, transects	i, importa	nt feature	s, etc.
Hydrophytic Vegetation Present? Yes 1	Vo √					_		
Hydric Soil Present? Yes N	v₀ <u>√</u>			e Sampled In a Wetlar		No <u>√</u>		
Wetland Hydrology Present? Yes N	Vo <u>√</u> oV		WILLIII	n a weciai	ild? Tes	NO <u>*</u>		
Remarks:								
Grass meadow, outside fringe wetland along lake								
VEGETATION – Use scientific names of plan	nts.				. "			
· ·	Absolute	Dom	inant	Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30')	% Cover		cies?	Status	Number of Dominant S			
1					That Are OBL, FACW,	or FAC		(4)
2					(excluding FAC-):			(A)
3					Total Number of Domir			(0)
4					Species Across All Stra	ла. <u>-</u>		(B)
Sapling/Shrub Stratum (Plot size: 15'		= Tota	al Cov	er	Percent of Dominant S That Are OBL, FACW,		3	(A /D)
1. Prosopis glandulosa	5	Yes		FACU				(AVD)
2. Ulmus crassifolia	2	Yes		FAC	Prevalence Index wor			
3					Total % Cover of:		lultiply by:	
4					OBL species			
5					FACW species			
Herb Stratum (Plot size: 5')	7	= Tota	al Cov	ег	FACU species			
Buchloe dactyloides	80	Yes		UPL	UPL species	_		_
Cynodon dactylon	10	No		FACU	Column Totals:			— (В)
3. Solanum elaeagnifolium	5	No		UPL				
4.					Prevalence Index			-
5.					Hydrophytic Vegetati			
6					1 - Rapid Test for I		egetation/	
7					2 - Dominance Tes 3 - Prevalence Ind			
8					4 - Morphological		/Dravida aum	
9					data in Remark	s or on a sep	arate sheet)	porung
10					Problematic Hydro	phytic Vegeta	ation ¹ (Expla	in)
Woody Vine Stratum (Plot size: 30'	95	= Tota	al Cov	er	¹ Indicators of hydric so	il and wetland	l hydrolagy r	must
1					be present, unless dist	urbed or prob	lematic.	nast
2.					Hydrophytic			
		= Tota	al Cov	er	Vegetation		. /	
% Bare Ground in Herb Stratum 5					Present? Ye	esN	lo <u>*</u>	
Remarks:			. !	n 4 mr - 4				
Upland grass area near lake shore. Hydrophytic ve	getation cr	iterior	i is no	oi met.				

Sampling Point: T15-DP2

-	-	
C	•	
o	u	_

	eeded to document the indicator or	confirm the absence o	i indicators.)
Depth Matrix	Redox Features		
(inches) Color (moist) % (0-16 10 YR 3/1 100	Color (moist) % Type ¹	Loc ² Texture	Remarks
0-10 10 11(3)1 100			
			
	_		
¹ Type: C=Concentration, D=Depletion, RM=Rec	luced Matrix, CS=Covered or Coated	Sand Grains. ² Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRR			or Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed Matrix (S4)		ck (A9) (LRR I, J)
Histic Epipedon (A2)	Sandy Redox (S5)		rairie Redox (A16) (LRR F, G, H)
Black Histic (A3)	Stripped Matrix (S6)		face (S7) (LRR G)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)		ins Depressions (F16)
Stratified Layers (A5) (LRR F)	Loamy Gleyed Matrix (F2)		H outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, G, H)	Depteted Matrix (F3)		Vertic (F18)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Redox Dark Surface (F6) Depleted Dark Surface (F7)		ent Material (TF2)
Sandy Mucky Mineral (S1)	Redox Depressions (F8)		allow Dark Surface (TF12) xplain in Remarks)
2.5 cm Mucky Peat or Peat (S2) (LRR G, H)			hydrophytic vegetation and
5 cm Mucky Peat or Peat (S3) (LRR F)	(MLRA 72 & 73 of LRR H)		nydrology must be present,
			isturbed or problematic.
Restrictive Layer (if present):			
Туре:			
Depth (inches):		Hydric Soil P	resent? Yes No ✓
Remarks:			
No hydric soil indicators observed.			
HYDROLOGY			
Wetland Hydrology Indicators:			
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che		Secondary	Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1)	Salt Crust (B11)	Surfac	e Soil Cracks (B6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Aquatic Invertebrates (B13)	Surfac Sparse	e Soil Cracks (B6) ely Vegetated Concave Surface (B8)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Surfac Sparso Draina	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)	Surfac Sparso Draina Oxidiz	e Soil Cracks (B6) Bly Vegetated Concave Surface (B8) Ige Patterns (B10) ed Rhizospheres on Living Roots (C3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living	Surface Sparse Draina Oxidiz Roots (C3)	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	 Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) 	Surface Sparse Draina Oxidiz Roots (C3)	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ege Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algaf Mat or Crust (B4)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4)	Surface Sparse Draine Oxidiz Roots (C3)	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7)	Surfac Sparse Draina Oxidiz Roots (C3)	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algaf Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4)	Surfac Sparse Draina Oxidiz Roots (C3)	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algał Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7)	Surfac Sparse Draina Oxidiz Roots (C3)	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Water-Stained Leaves (B9) Field Observations:	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	Surfac Sparse Draina Oxidiz Roots (C3)	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; characteristics) 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) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	Surfac Sparse Draina Oxidiz Roots (C3)	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algaf Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _vertical Notice (Comparison of the comparison of	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living	Surfac Sparse Draina Oxidiz Roots (C3)	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5) Heave Hummocks (D7) (LRR F)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _v Saturation Present? Yes No _v Saturation Present? Yes No _v	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	Surfac Sparse Draina Oxidiz Roots (C3)	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; characteristics) 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) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _vericological values are present? Yes No _vericological values (Includes capillary fringe)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	Surfac Sparso Draina Oxidiz Roots (C3) (who Crayfis Satura Geom FAC-N Frost-I Wetland Hydrology F	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5) Heave Hummocks (D7) (LRR F)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _v Saturation Present? Yes No _v	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	Surfac Sparso Draina Oxidiz Roots (C3) (who Crayfis Satura Geom FAC-N Frost-I Wetland Hydrology F	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5) Heave Hummocks (D7) (LRR F)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Vater Table Present? Yes No Vater Saturation Present? Yes No Vater Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitor)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	Surfac Sparso Draina Oxidiz Roots (C3) (who Crayfis Satura Geom FAC-N Frost-I Wetland Hydrology F	e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5) Heave Hummocks (D7) (LRR F)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algaf Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Vater Table Present? Yes No Vater Saturation Present?	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Surface Sparse Sparse Draina Oxidiz Roots (C3) (whe Crayfis Satura ✓ Geom FAC-N Frost-I Wetland Hydrology F	ee Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5) Heave Hummocks (D7) (LRR F)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; characteristics) 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) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _vericological values are present? Yes No _vericological values (Includes capillary fringe)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Surface Sparse Sparse Draina Oxidiz Roots (C3) (whe Crayfis Satura ✓ Geom FAC-N Frost-I Wetland Hydrology F	ee Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) ed Rhizospheres on Living Roots (C3) ere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5) Heave Hummocks (D7) (LRR F)

Projection 30	Applicant/Owner: 130 Environmental Park, LLC Investigator(s): Troegle, Josh & Boe, Brian Landform (hillslope, terrace, etc.): Swale Subregion (LRR): J - Southwestern Prairies Soil Map Unit Name: Ts - Tinn soils, frequently flood Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrologys	Lat: 29. Led s time of ye eignificantly naturally pro showing	Section Local r 95 ar? Ye disturbe	n, Tov relief es <u>√</u> eed?	wnship, Ra (concave, No _ Are '	State: TX nge: NA convex, none): Concav Long: -97.65 NWI classific (If no, explain in F	Sampling //e cation: Nor Remarks.) present? Y ers in Remai	Point: T15-I Slope (%) Datum: NA ne available	: <u>3</u> AD 83							
	Investigator(s): Troegle, Josh & Boe, Brian Landform (hillslope, terrace, etc.): Swale Subregion (LRR): J - Southwestern Prairies Soil Map Unit Name: Ts - Tinn soils, frequently flood Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrologys	Lat: 29. led s time of ye significantly naturally pro	Section Local r 95 ar? Ye disturbe	n, Tov relief es <u>√</u> ed? tic?	vnship, Ra (concave, No _ Are '	nge: NA convex, none): Concav Long: -97.65 NWI classific (If no, explain in F	cation: Nor Remarks.) present? Y	Slope (%) _ Datum: NA ne available	: <u>3</u> \D 83							
Lead rotter (concave, convex, none). Concave Slope (%) 3 Subhegion (LRR): J - Southwestern Prairies Lat 28.95 Long 97.65 Datum: NAD 83 South Map Lint Name: TS - Time Solls, frequently flooded Not contained to the site typical for this time of year? Yes ✓ No (If no, explain in Remarks.) Are Vegelation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No Are Vegelation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No Are Vegelation Soil or Hydrology naturally problematic? (if noeded, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.	Landform (hillslope, terrace, etc.): Swale Subregion (LRR): J - Southwestern Prairies Soil Map Unit Name: Ts - Tinn soils, frequently flood Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrologys	Lat: 29. led s time of ye significantly naturally pro	Local r 95 ar? Ye disturbe	relief es ✓ ed? tic?	(concave, No Are '	convex, none): Concave Long: -97.65 NWI classific (If no, explain in F	cation: Nor Remarks.) present? Y	_ Datum: NA ne available 'es ✓ _ N	ND 83							
Subtragion (IRR): J - Southwestern Prairies Lat 28.95 Long 97.65 Datum: NAD 83 Soil May Unit Name: Ts - Tinn soils, frequently flooded NWI classification. None available Subregion (LRR): <u>J - Southwestern Prairies</u> Soil Map Unit Name: <u>Ts - Tinn soils, frequently flood</u> Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrologys	Lat: 29. Lat	95 ar? Ye disturbe	es <u>√</u> ed? tic?	No _ Are '	Long: <u>-97.65</u> NWI classific (If no, explain in F	cation: Nor Remarks.) present? Y	_ Datum: NA ne available 'es ✓ _ N	ND 83								
Soil Map Unit Name: Ts - Tinn soils, frequently flooded Are climatic hydrologic conditions on the site bypical for this time of year? Yes ✓ No (if no, explain in Remarks.) Are Vegetation	Soil Map Unit Name: Ts - Tinn soils, frequently flood Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrologys	s time of ye significantly prospering showing	ar? Ye disturb blemat	es <u>√</u> ed? tic?	No _ Are '	NWI classific (If no, explain in F	cation: Nor Remarks.) present? Y ers in Remark	ne available 'es <u>√</u> N	9							
Are climatic / hydrologic conditions on the site hydrology significantly disturbed? Are "Normal Circumstances" present? Yes \(\sqrt{No} \) No Are Vegetation Soil or Hydrology instituted? Are "Normal Circumstances" present? Yes \(\sqrt{No} \) No Are Vegetation Present? Yes \(\sqrt{No} \) No SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes \(\sqrt{No} \) No West and Hydrology Present? Yes \(\sqrt{No} \) No West And Hydrology Present? Yes \(\sqrt{No} \) No West And Hydrology Present? Yes \(\sqrt{No} \) No West And Hydrology Present? Yes \(\sqrt{No} \) No West And Hydrology Present? Yes \(\sqrt{No} \) Yes Yes Tacl Cover Yes And Strate: Yes \(\sqrt{No} \) Yes Yes Tacl Cover Yes And Strate: Yes \(\sqrt{No} \) Yes Yes Tacl Cover Yes And Strate: Yes \(\sqrt{No} \) Yes Yes Tacl Upt-species \(\sqrt{No} \) Yes	Are climatic / hydrologic conditions on the site typical for this	s time of ye significantly naturally pro showing	ar? Ye disturbe blemat	es <u>√</u> ed? tic?	No _ Are '	(If no, explain in F	Remarks.) present? Y ers in Remai	′es <u>√</u> N								
Are Vegelation Soll or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No Are Vegelation Soll 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 Vegelation Present? Yes ✓ No ✓ Is the Sampled Area within a Wetland? Yes No ✓ Wetland Hydrology Present? Yes No ✓ Is the Sampled Area within a Wetland? Yes No ✓ No ✓ Wetland Hydrology Present? Yes No ✓ Is the Sampled Area within a Wetland? Yes No ✓ No ✓ No ✓ Wetland Hydrology Present? Yes No ✓ No ✓ No ✓ No ✓ Sample Area within a Wetland? Yes No ✓ No	Are Vegetation, Soil, or Hydrologys	ignificantly naturally pro showing	disturb blemat	ed? tic?	Are ' (If n∈	'Normal Circumstances"	present? Y ers in Remai		lo							
Are Vegetation		showing	blemat	tic?	(If ne		ers in Remai		lo							
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? Hydric Soil Present? Yes No ✓ Welland Hydrology Prosent? Yes No ✓ Welland Provided Hydrology Prosent? Yes No ✓ Welland Hydrology Prosent? Yes No ✓ Welland Hydrology Prosent? Yes No ✓ Within a Welland? Yes No ✓ Within a Welland? Yes No ✓ Within a Welland? Yes No ✓ Within a Welland? Yes No ✓ Within a Welland? Yes No ✓ Welland Hydrology Prosent? Yes No ✓ Within a Welland? Yes No ✓ Welland? Yes No ✓ Welland? Yes No ✓ Within a Welland? Yes No ✓ Within a Welland? Yes No ✓ Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC (excluding FACP. 2 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) Prevalence Index worksheet: Total Species Across All Strate: 2 (B) Prevalence Index worksheet: Total Species X 1 = Total Cover FACW species X 2 = FACW Species X 2 = FACW Species X 4 = UPL species X 4 = UPL species X 5 = UPL species X 5 = UPL species X 4 = UPL species X 5 = UPL species X 5 = UPL species X 5 = UPL species X 4 = UPL species X 5	Are Vegetation, Soil, or Hydrology r	showing			•	eded, explain any answe		rks.)								
Hydrophylic Vegetation Present? Yes		。	samı	pling	1 - 4											
Hydro Soil Present? Yes	SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.															
Hydro Soil Present? Yes																
Wetland Hydrology Present? Yes		~ 1		Is the	e Sampled			,								
Remarks: Swale in cedar elm/post oak woods, east of stream channel.	Wetland Hydrology Present? Yes N	o √		withi	n a Wetlar	nd? Yes	No_ <u>*</u>	<u>/</u>								
VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: 30' Absolute % Cover Species? Status Number of Dominant Species Number of Dom									· · · · · · · · · · · · · · · · · ·							
Dominant Indicator	Swale in cedar elm/post oak woods, east of stream	channel.														
Dominant Indicator	· ·															
Dominant Indicator																
Number of Dominant Species Status That Are OBL, FACW, or FAC (excluding FACP): 2	VEGETATION – Use scientific names of plan															
1	Tree Stratum (Piot size: 30'															
2. (excluding FAC-): 2 (A)																
3.								<u> </u>	(A)							
Species Across All Strata: 2 (B)						Total Number of Domir	nant									
Sapling/Shrub Stratum (Plot size: 15' 10							ata: _2	<u> </u>	(B)							
1. Ulmus crassifolia 2.						Percent of Dominant S	pecies									
2		10	Van		EAC	That Are OBL, FACW,	or FAC:	100	(A/B)							
Total % Cover of: Multiply by:					TAC	Prevalence Index wo	rksheet:									
A						Total % Cover of:		Multiply by:	_							
FACW species x 2 = FAC species x 3 = FAC species x 4 = FAC species x 4 = FAC species x 4 = SE species x 4 =						OBL species	x1:	=	_							
Herb Stratum (Plot size: 5') 10		-				FACW species	x 2	=	_							
Herb Stratum (Plot size: 5' 1. Carex brevior 60 Yes FAC UPL species x 4 =	-	10	= Tota	al Cov	er											
2. Iva annua 5									_							
3. Elymus virginicus 15 No FAC Prevalence Index = B/A = 4. Paspalum laeve 15 No FACW 5. Ambrosia psilostachya 5 No FACU Hydrophytic Vegetation Indicators:									_							
4. Paspalum laeve 5. Ambrosia psilostachya 5. No FACU 6.		- ——				Column Totals:	(A)		_ (B)							
5. Ambrosia psilostachya 5. No FACU 6						Prevalence Index	c = B/A =									
6	·					L										
7	·				TACO	1 - Rapid Test for	Hydrophytic	Vegetation								
8						✓ 2 - Dominance Te	st is >50%									
9						3 - Prevalence Ind	ex is ≤3.01									
10 Problematic Hydrophytic Vegetation¹ (Explain) 1 = Total Cover 1						4 - Morphological	Adaptations ¹	(Provide sup	porting							
Woody Vine Stratum (Plot size: 30') 100 = Total Cover Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes ✓ No						1										
Woody Vine Stratum (Plot size: 30' 1 1 1 1 1 1 1 1 1			= Tota	al Cov	er				•							
1. 2 Hydrophytic Vegetation Present? Yes ✓ No	Woody Vine Stratum (Plot size: 30'					¹ Indicators of hydric so	il and wetlar	id hydrology i	must							
% Bare Ground in Herb Stratum 0	1					be present, unless dist	urbea or pro	blematic.								
% Bare Ground in Herb Stratum 0 Present? Yes ✓ No	2															
	9/ Bara Cround in Harb Stratum 0		= Tota	al Cov	er	Present? Ye	es 🗸	No								
	Remarks:															
Herbaceous swale within upland woods. Hydrophytic vegetation criterion is met.		ic vegetati	on crit	terion	is met.											
		_														

Sampling Point: T15-DP3

c	\sim	ī	
J	u	ш	_

Profile Desc	cription: (Describ	e to the depth r				or confirm	n the absence of indicators.)	
Depth (inches)	Matrix			x Features		1002	Toytura	
(inches) 0-16	Color (moist) 10 YR 2/1		Color (moist)	%	_Type ¹ _	_Loc ^z	Texture Remarks Clay	
	10 11(2/1						Clay	
<u> </u>								
								
								
								
	oncentration, D=De					d Sand Gr		Matrix.
-	Indicators: (Appl	icable to all LRI					Indicators for Problematic Hydric So	oils":
Histosol	(A1) pipedon (A2)			Gleyed Ma Redox (S5)			1 cm Muck (A9) (LRR I, J) Coast Prairie Redox (A16) (LRR F	C II/
Black Hi			•	d Matrix (S			Dark Surface (S7) (LRR G)	, G, M)
i	n Sulfide (A4)			Mucky Min	•		High Plains Depressions (F16)	
	d Layers (A5) (LRR	: F)		Gleyed Ma			(LRR H outside of MLRA 72 &	73)
l	ick (A9) (LRR F, G			d Matrix (F			Reduced Vertic (F18)	•
. –	d Below Dark Surfa	ice (A11)		Dark Surfa			Red Parent Material (TF2)	
	ark Surface (A12)			d Dark Sui			Very Shallow Dark Surface (TF12)	
	fucky Mineral (S1)	(C2) / I BB G H		Depression		16)	Other (Explain in Remarks) 3Indicators of hydrophytic vegetation ar	
	Mucky Peat or Peat icky Peat or Peat (ains Depre RA 72 & 7	-	-	wetland hydrology must be present	
0 000 000	long real or real (50) (L IXIX)	(1012	10-12-01	O OI LINK	•••,	unless disturbed or problematic.	7
Restrictive I	Layer (if present):							
Туре:			_					
Depth (inc	ches):		_				Hydric Soil Present? Yes	No <u>√</u>
Remarks:								
No hydric so	oil indicators obse	erved.						
HYDROLO	GY							<u> </u>
	drology Indicators	••						
•	ators (minimum of		eck all that anni	v)			Secondary Indicators (minimum of the	uo roquirod\
	Water (A1)	one required, on	Salt Crust				Secondary Indicators (minimum of tw	<u>vo_requirea}</u>
	ter Table (A2)		Aquatic In	'	: (B13)		Surface Soil Cracks (B6)Sparsely Vegetated Concave St	Irfano (B9)
Saturation			Hydrogen				Drainage Patterns (B10)	illace (bo)
_	arks (B1)		Dry-Seaso		, ,		Oxidized Rhizospheres on Living	Roote (C3)
-	it Deposits (B2)		Oxidized F			na Roots (, 1100t3 (00)
	oosits (B3)			not tilled)			Crayfish Burrows (C8)	
	it or Crust (B4)		Presence	of Reduced	d Iron (C4)	Saturation Visible on Aerial Imag	iery (C9)
	osits (B5)		Thin Muck	Surface (0	(7)	,	✓ Geomorphic Position (D2)	,, (+-,
Inundatio	on Visible on Aerial	Imagery (B7)	Other (Exp				FAC-Neutral Test (D5)	
Water-St	tained Leaves (B9)						Frost-Heave Hummocks (D7) (L	RR F)
Field Observ	vations:			• •				,
Surface Wate	er Present?	Yes No_	Depth (in	ches):		_		
Water Table		Yes No _						
Saturation Pr		Yes No _				I	and Hydrology Present? Yes	No √
(includes cap	illary fringe)							
Describe Red	corded Data (strear	n gauge, monito	ring well, aerial p	notos, pre	vious insp	pections), i	if available:	
Remarks:	in anyth at F	adalais Zees A	. hawe	AL A SECTION		جا ہے سید	and Madanda day and a	
Data point is	in swale on Flo	pupiain Zone A	, nowever no (nner India	ators we	ere observ	ved. Wetland hydrology criterion is no	ot met.

Project/Site: 130 Environmental Park		Citv/County: Lo	ockhart/Cal	dwell _{Sa}	ampling Date: 06/24/2013
Applicant/Owner: 130 Environmental Pa					mpling Point: T15-DP4
Investigator(s): Troegle, Josh & Boe, B					
_				· -	Slone (%): 4
Subregion (LRR): J - Southwestern Pra					
Soil Map Unit Name: FeE - Fett gravelly					on: None available
		,			
Are climatic / hydrologic conditions on the site					·
Are Vegetation, Soil, or Hydro					ent? Yes 🗸 No
Are Vegetation, Soil, or Hydro	ology naturally pr	oblematic?	(If needed,	explain any answers ir	n Remarks.)
SUMMARY OF FINDINGS - Attacl	h site map showing	g sampling p	oint location	ons, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?	es <u>√</u> No			-	
Hydric Soil Present?	es No <u></u>	ļ.	ampled Area	V	N - 1
Wetland Hydrology Present? Ye	es No. √	within a	Wetland?	Tes	No <u>✓</u>
Remarks:					
Carex in grassland swale					
VEGETATION – Use scientific nan	one of plants			· · · · · · · · · · · · · · · · · · ·	
VEGETATION – Use scientific flam	Absolute	Dominant Ind	licaton Dam	inance Test workshe	
Tree Stratum (Plot size: 30'	% Cover	Species? St	tatus	ber of Dominant Speci	
1			That	Are OBL, FACW, or F.	
2			(excl	uding FAC-):	<u>1</u> (A)
3				Number of Dominant	4
4			Spec	cies Across All Strata:	<u>1</u> (B)
Sapling/Shrub Stratum (Plot size: 15'	,	= Total Cover		ent of Dominant Speci	400
			That	Are OBL, FACW, or F.	AC: 100 (A/B)
1			Prev	alence Index worksh	eet:
3				Total % Cover of:	Multiply by:
4.			I		x 1 =
5.			I		x 2 =
		= Total Cover			x 3 =
Herb Stratum (Plot size: 5 [†]		37 E4			× 4 =
1. Carex brevior	90	Yes FA		species	
2. Phalaris caroliniana 3. Solanum elaeagnifolium		No UP		mn Lotais;	(A) (B)
γ.,		No FA		Prevalence Index = E	B/A =
		· 		rophytic Vegetation Ir	
5				1 - Rapid Test for Hydr	ophytic Vegetation
6			<u> </u>	2 - Dominance Test is	>50%
8.			-	3 - Prevalence Index is	= :
9			·	4 - Morphological Adap	otations ¹ (Provide supporting on a separate sheet)
10.					tic Vegetation¹ (Explain)
	110	= Total Cover			- , ,
Woody Vine Stratum (Plot size: 30'				cators of hydric soil and resent, unless disturbe	d wetland hydrology must
1,					a or problematic.
2				rophytic etation	
% Bare Ground in Herb Stratum 0		= Total Cover		ent? Yes <u>√</u>	No
Remarks:	_	-,-			
Hydrophytic vegetation criterion is met.					
US Army Corps of Engineers					Great Plains - Version 2.0

Sampling Point: T15-DP4

0	$\overline{}$	a	
-	()	П	Ł

Profile Desc	cription: (Describe Matrix	to the depth r	eeded to document the indicator or Redox Features	r confirm the ab	sence of indicators.)
_(inches)	Color (moist)	%	Color (moist) % Type ¹	Loc ² Text	ture Remarks
0-16	10 YR 3/1	100		Clay	, to, narto
l	-				
	-				
			duced Matrix, CS=Covered or Coated		² Location: PL=Pore Lining, M=Matrix.
		cable to all LKI	Rs, unless otherwise noted.)		cators for Problematic Hydric Soils ³ :
Histosol	• ,		Sandy Gleyed Matrix (S4)		1 cm Muck (A9) (LRR I, J)
	oipedon (A2) stic (A3)		Sandy Redox (S5) Stripped Matrix (S6)		Coast Prairie Redox (A16) (LRR F, G, H) Dark Surface (S7) (LRR G)
l	n Suifide (A4)		Loamy Mucky Mineral (F1)		High Plains Depressions (F16)
	Layers (A5) (LRR	F)	Loamy Gleyed Matrix (F2)		(LRR H outside of MLRA 72 & 73)
	ick (A9) (LRR F, G,		Depleted Matrix (F3)		Reduced Vertic (F18)
Depleted	Below Dark Surfac	ce (A11)	Redox Dark Surface (F6)		Red Parent Material (TF2)
	ark Surface (A12)		Depleted Dark Surface (F7)		Very Shallow Dark Surface (TF12)
, — ·	lucky Mineral (S1)		Redox Depressions (F8)		Other (Explain in Remarks)
	Aucky Peat or Peat				cators of hydrophytic vegetation and
5 ст ми	icky Peat or Peat (S	3) (LRR F)	(MLRA 72 & 73 of LRR H	•	wetland hydrology must be present,
Restrictive I	_ayer (if present):				unless disturbed or problematic.
	ches):		-	Livelei	ic Soil Present? Yes No ✓
Remarks:			-	пуш	C Soll Flesent? Tes No V
	oil indicators obse	bood			
No Hydric Sc	ni indicators obse	ived.			
HYDROLO	GY				
Wetland Hyd	drology Indicators:	<u> </u>			
Primary Indic	ators (minimum of	one required; ch	eck all that apply)	Se	econdary Indicators (minimum of two required
Surface 1	Water (A1)		Salt Crust (B11)		_ Surface Soil Cracks (B6)
	ter Table (A2)		Aquatic Invertebrates (B13)		Sparsely Vegetated Concave Surface (B8)
Saturatio	on (A3)		Hydrogen Sulfide Odor (C1)	_	_ Drainage Patterns (B10)
	arks (B1)		Dry-Season Water Table (C2)		 Oxidized Rhizospheres on Living Roots (C3)
Sedimen	t Deposits (B2)		Oxidized Rhizospheres on Living	g Roots (C3)	(where tilled)
Drift Dep	osits (B3)		(where not tilled)		_ Crayfish Burrows (C8)
Algal Ma	t or Crust (B4)		Presence of Reduced Iron (C4)		_ Saturation Visible on Aerial Imagery (C9)
Iron Dep	osits (B5)		Thin Muck Surface (C7)	✓	_ Geomorphic Position (D2)
Inundatio	n Visible on Aerial	lmagery (B7)	Other (Explain in Remarks)		_ FAC-Neutral Test (D5)
Water-St	ained Leaves (B9)				Frost-Heave Hummocks (D7) (LRR F)
Field Observ	rations:				
Surface Water	er Present? Y	es No_	Depth (inches):		
Water Table I			Depth (inches):		
Saturation Pr			Depth (inches):		Irology Present? Yes No ✓
(includes cap	illary fringe)			1	
		gauge, monito	ring well, aerial photos, previous inspe	ections), if availat	ble:
Topographi	іс тар				
Remarks:			-		
				po map as a bl	ue line, but no OHWM was observed. N
other hydrole	ogy indicators obs	served. Wetla	nd hydrology criterion is not met.		

Project/Site: 130 Environmental P	Park	1	City/Co	ounty: Lockha	rt/Caldwell	Sampling Date: 06/	25/2013
Applicant/Owner: 130 Environmen					State: TX Sampling Point: T15-DP5		
Investigator(s): Troegle, Josh & Bo				n, Township, Ra		_	
Landform (hillslope, terrace, etc.): De					convex, none): Conca	ive Slope (%)· 0
Subregion (LRR): J - Southwestern							
Soil Map Unit Name: W - Water					NWI classif		
	be site topical for						1010
Are climatic / hydrologic conditions on the site typical for this time of year? Yes 🗸 No (If no, explain in Remarks.) Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 🗸 No							
							_ No
Are Vegetation, Soil, or					eeded, explain any answ		
SUMMARY OF FINDINGS – A	ttach site ma	p showing	sam	pling point l	locations, transect	s, important featu	ıres, etc.
Hydrophytic Vegetation Present?	Yes <u></u> ✓	No					
Hydric Soil Present?		No		Is the Sampled within a Wetla		No	
Wetland Hydrology Present?		No		Willilli a Wella	iid: res <u>·</u>	NO	
Remarks:			•				
Emergent wetland fringe along no	rth shore of lake	€.					
VEGETATION - Use scientific	names of pl	ants.					
		Absolute	Domi	inant Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size: 30')	% Cover	Spec	ies? Status	Number of Dominant	Species	
1					That Are OBL, FACW	, or FAC 2	(4)
2					(excluding FAC~):		(A)
3					Total Number of Dom	inant	(D)
4					Species Across All Str	rata: 2	(B)
Sapling/Shrub Stratum (Plot size: 15	5†)		= Tota	i Cover	Percent of Dominant S That Are OBL, FACW		(A/B)
1. Sesbania drummondii		5	Yes	FACW			(A/D)
2					Prevalence Index wo		
3					Total % Cover of:		
4						x1=	
5						x 2 = x 3 =	
Herb Stratum (Plot size: 51	\	5	= Tota	ıl Cover	I .	x 3	
1 Eleocharis quadrangulata	/	100	Yes	OBL		×5=	
2 Persicaria pensylvanicum		15	No	FACW	· —	(A)	(B)
3. Xanthium strumarium		_ 2	No	FAC			
4.					L	ex = B/A =	
5.					Hydrophytic Vegetat		
6						Hydrophytic Vegetation	า
7					✓ 2 - Dominance Te		
8						dex is \$3.0" Adaptations ¹ (Provide s	
9					data in Remark	ks or оп a separate she	supporting :et)
10					Problematic Hydr	ophytic Vegetation ¹ (Ex	plain)
Woody Vine Stratum (Plot size: 30'	\	117	= Tota	I Cover	¹ Indicators of hydric so	oil and wetland hydrolog	av muet
1						turbed or problematic.	gy muat
2.					Hydrophytic	·	
			≃ Tota	l Cover	Vegetation		
% Bare Ground in Herb Stratum 0					Present? Y	es No	
Remarks:			4-47-	audiaula - I-	-4		
Emergent wetland dominated by s	spikerush. Hydr	opnytic vege	tation	criterion is me	ŧl.		
L.							

SOIL

Profile Des	cription: (Describe	to the de	oth needed to docu	ment the	indicator	or confir	m the absence of ir	ndicators.)
Depth	Matrix			ox Featur				
(inches) 0-10	Color (moist) 10 YR 3/1	- <u>%</u> 70	Color (moist) 10 YR 4/6	- <u>- % -</u> 30	Type ¹	Loc ²		Remarks
					- <u>c</u>	<u> </u>	Clay	
11-16	10 YR 3/1	_ 60	10 YR 4/4	_ 20	_ <u>C</u>	<u> M</u>		·
			10 YR 4/1	_ 10	_ <u>D</u>			
			10 YR 4/6	10	С	M/PL		
				_				
						·		
			<u> </u>					
					- 			
	oncentration, D=De					ed Sand G		n: PL=Pore Lining, M=Matrix.
1	Indicators: (Applie	cable to all						⊃roblematic Hydric Soils³:
Histoso	i (A1) pipedon (A2)			Gleyed M Redox (S	atrix (S4)			(A9) (LRR I, J) ie Redox (A16) (LRR F, G, H)
I —	istic (A3)			d Matrix (ce (S7) (LRR G)
	en Sulfide (A4)				ineral (F1)			Depressions (F16)
Stratifie	d Layers (A5) (LRR	F)		-	latrix (F2)			outside of MLRA 72 & 73)
	uck (A9) (LRR F, G ,			ed Matrix	` '		Reduced V	ertic (F18)
	d Below Dark Surfac	e (A11)	✓ Redox					Material (TF2)
	ark Surface (A12)				urface (F7)		w Dark Surface (TF12)
	Mucky Mineral (S1) Mucky Peat or Peat	(S2) /I DD		Depression	ons (F8) essions (F	16\		ain in Remarks) /drophytic vegetation and
	ucky Peat or Peat (S				73 of LRF			frology must be present,
	2011, 1 001 07 1 001 (0	, (<u>=</u> , ,	(,		urbed or problematic.
Restrictive	Layer (if present):							
Type:								
Depth (in	ches):						Hydric Soil Pres	sent? Yes <u>√</u> No
Remarks:			<u> </u>					
Hydric soil	criterion is met.							
HYDROLO	GV						· .	
				-				<u></u>
1	drology Indicators: cators (minimum of d		d: abook all that ann	LA.			Canada t	allera i i i i i i i i i i i i i i i i i i i
		one require						dicators (minimum of two required)
	Water (A1)		Salt Crust Aquatic In		na (D49)			Soil Cracks (B6)
Gaturati	ater Table (A2)		Aquatic in		` '			Vegetated Concave Surface (B8)
	larks (B1)				Table (C2)		_	Patterns (B10)
—	nt Deposits (B2)		✓ Oxidized I		, ,			Rhizospheres on Living Roots (C3)
	posits (B3)			not tilled			Crayfish	•
	at or Crust (B4)		Presence			1\	•	n Visible on Aerial Imagery (C9)
	osits (B5)		Thin Muck		•	.,		phic Position (D2)
	on Visible on Aerial	lmagery (B						itral Test (D5)
	tained Leaves (B9)							ave Hummocks (D7) (LRR F)
Field Obser	` ,							(27) (2417)
Surface Wat		es	No <u>✓</u> Depth (in	ches):				
Water Table			No ✓ Depth (in					
Saturation P							land Hydrology Pre	sent? Yes <u>√</u> No
(includes car	oillary fringe)							
Describe Re	corded Data (stream	gauge, mo	onitoring well, aerial	photos, pi	revious ins	pections),	if available:	
· · · · · · · · · · · · · · · · · · ·								
Remarks:	D. (
Fringe of lat	ce. Data point is o	n Fioodpl	aın ∠one A. Wetla	and hydro	ology crit	erion is m	net.	
							4-	

Project/Site: 130 Environmental Pa	ırk		Citv/Co	_{untv:} Lockha	art/Caldwell	Sampling Date: 06	/25/2013
Applicant/Owner: 130 Environmenta					Sampling Point: T1		
Investigator(s): Troegle, Josh & Boo				n, Township, Ra			
Landform (hillslope, terrace, etc.): Lake					convex, none): Concav	/e Slone	(%)· 0
Subregion (LRR): J - Southwestern							
Soil Map Unit Name: W - Water					NWI classific		
Are climatic / hydrologic conditions on the	site typical for						
Are Vegetation, Soil, or H					"Normal Circumstances"		No
Are Vegetation, Soil, or H					eeded, explain any answe		_ NO
SUMMARY OF FINDINGS – Att						,	uras sta
SOMMAN OF THE BINGS - AU	lacii sile illa	th showing	Samp	Jing point		- important read	ures, etc.
Hydrophytic Vegetation Present?	,	No		Is the Sample	d Area		
Hydric Soil Present?	Yes <u>√</u>			within a Wetla		No	
Wetland Hydrology Present?	Yes <u>✓</u>	No					
Remarks:	ding of upper	roach of lake					
Forested wetland fringe along shore	eline of upper	reach of lake	٠.				
VEGETATION – Use scientific	names of pl	ants.					
	•	Absolute	Domii	nant Indicator	Dominance Test work	sheet:	
<u>Tree Stratum</u> (Plot size: 30')			ies? Status	Number of Dominant S	pecies	
1. Fraxinus pennsylvanica		60	Yes	FAC	That Are OBL, FACW,		()
2. Salix nigra		40	Yes	FACW	(excluding FAC-):	<u>-</u>	(A)
3				·	Total Number of Domir	_	(5)
4		100			Species Across All Stra	ita: <u>U</u>	(B)
Sapling/Shrub Stratum (Plot size: 15'	Υ.	100	= Total	l Cover	Percent of Dominant S		(0.473)
1. Fraxinus pennsylvanica	/	15	Yes	FAC	That Are OBL, FACW,	OFFAC: 100	(A/B)
2. Triadica sebifera		10	Yes	FAC	Prevalence Index wor	ksheet:	
3						Multiply by	
4					OBL species		
5					FACW species		
5.	,	25	= Total	l Cover	FAC species		
Herb Stratum (Plot size: 5' Cyperus reflexus)	20	Yes	FAC	FACU species UPL species		
2. Teucrium canadense			No	FACW	Column Totals:	x 5 =	
3 Cardiospermum halicacabum		20	Yes	FAC	Columni Totals.	(A)	(B)
4 Eupatorium serotinum			No	FAC	Prevalence Index	c = B/A =	
5. Pluchea camphorata	•	5	No	FACW	Hydrophytic Vegetati	on Indicators:	
6					1 - Rapid Test for I		η
7					✓ 2 - Dominance Tes		
8					3 - Prevalence Ind		
9.					4 - Morphological A	Adaptations¹ (Provide s or on a separate she	supporting
10					Problematic Hydro		-
301		55	= Total	l Cover			. ,
Woody Vine Stratum (Plot size: 30'					¹ Indicators of hydric so be present, unless dist	# and wetland hydrolo urbed or problematic.	gy must
1							
2					Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 45			- rota	i Cover	Present? Ye	es_ <u>√</u> No	_
Remarks:							
Small stand of forested wetland, dor	minated by gr	een ash and	black v	willow trees.	Hydrophytic vegetation	criterion is not met	

SOIL Sampling Point: T15-DP6

Profile Desc	cription: (Describe	to the de	pth needed to docu	ment the	indicator	or confirm	n the absence of i	indicators.)
Depth	Matrix	0/		ox Featur		. 2	- .	_
(inches) 1-4	Color (moist) 10 YR 2/1	_ <u>%</u> 90	Color (moist) 5 YR 5/8	_ <u> </u>	_ <u>Type¹</u> C	Loc ² PL/M	Texture	Remarks
							Clay	
5-8	10 YR 2/1	_ <u>75</u>	5 YR 5/8	_ 25	_ <u>c</u>	PL/M_		
9-10	10 YR 2/1	_ 75	5 YR 5/8	_ 20	<u>C</u>	<u>M</u>		
		_	10 YR 5/2	_ 5	_ D	<u>M</u>		
								
								
1- 0.0		- 					2	
			1=Reduced Matrix, C I LRRs, unless othe			ed Sand G		on: PL=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Histosol		cable to al			latrix (S4)			
. —	pipedon (A2)			Redox (S				k (A9) (LRR I, J) irie Redox (A16) (LRR F, G, H)
Black Hi				d Matrix (ace (S7) (LRR G)
	n Sulfide (A4)			-	ineral (F1)			s Depressions (F16)
_	Layers (A5) (LRR	,		_	latrix (F2)		· ·	l outside of MLRA 72 & 73)
	ick (A9) (LRR F, G, d Below Dark Surfac		Deplete Redox	ed Matrix				Vertic (F18)
I	irk Surface (A12)	ce (ATT)			urface (F7)			nt Material (TF2) ow Dark Surface (TF12)
ı —	lucky Mineral (S1)			Depression				of Dark Surface (17 12)
1	lucky Peat or Peat	(S2) (LRR			ressions (F	16)		ydrophytic vegetation and
5 cm Mu	cky Peat or Peat (S	33) (LRR F) (MI	-RA 72 &	73 of LRR	(H)		drology must be present,
D-st-isting 1	('5	_	-				unless dist	turbed or problematic.
Type: Ha	.ayer (if present):							
Depth (inc							Hardela Call Day	
Remarks:	illes).						nyuric Soil Pre	esent? Yes V No No
	riterion is met.							
i i juno com c	THOUSAN TO THICK							
							 	
HYDROLO	GY							
Wetland Hyd	Irology Indicators	•					<u>-</u>	
Primary Indic	ators (minimum of o	one require	d; check all that app	ly)			Secondary I	ndicators (minimum of two required)
Surface '	Water (A1)		Salt Crust	` '				Soil Cracks (B6)
]	ter Table (A2)		Aquatic In					y Vegetated Concave Surface (B8)
Saturatio	` '		Hydrogen		. ,		-	e Patterns (B10)
	arks (B1)		✓ Oxidized I		Table (C2)	D1- :		d Rhizospheres on Living Roots (C3)
	t Deposits (B2) osits (B3)			not tilled		ing Roots (. ,	e tilled)
	t or Crust (B4)				<i>)</i> ed Iron (C4	ı)	_	ı Burrows (C8) on Visible on Aerial Imagery (C9)
1	osits (B5)		Thin Muck			')	,	phic Position (D2)
1 —	on Visible on Aerial	lmagery (E						utral Test (D5)
	ained Leaves (B9)		,		,			eave Hummocks (D7) (LRR F)
Field Observ	rations:							(, , (=====,
Surface Wate	er Present?	es	No 🗸 Depth (in	ches):		_		
Water Table I			No Depth (in					
Saturation Pr		/es	No 🗸 Depth (in	ches):		_ Wetla	and Hydrology Pr	esent? Yes <u>√</u> No
(includes cap		a a a u a a m	onitoring well, aerial	nhotos n	rovioue ine	nactions)	if available:	
Describe Ked	oraea Daia (Siledii	i gauge, m	Gratoring well, aerlal	ρποιοέ, ρ	เซขเบนซ์ เปร	pecilons),	ıı avallabl e .	
Remarks:								
	ananciotod with Id	ska had a	nd floodplain. Site	is on El	oodplain 7	Zono A V	Notland hydrolog	
Depression :	associated with 12							
Depression a	associated with ia	ake bed a	id iloodplain. Oite	15 011 11	Joupiain 2	JOHE A. V	welland hydrolog	ly criterion is met.

Project/Site: 130 Environmental Park		City/County: Lockhart/Caldwell Sampling Date: 06/25/2				
Applicant/Owner: 130 Environmental Park, LL					Sampling Point: T15-DP	
		Section	n, Township, Ra		<u> </u>	
					ve Slope (%): 2	,
Subregion (LRR): J - Southwestern Prairies				, 		
Soil Map Unit Name: W - Water					cation: None available	
Are climatic / hydrologic conditions on the site typical	for this time of ve					
Are Vegetation, Soil, or Hydrology	_				present? Yes <u>√</u> No_	
Are Vegetation, Soil, or Hydrology				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site					•	etc.
Understadie Verschille Bressell					·	
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes ✓	No		Is the Sampled			
Wetland Hydrology Present? Yes ✓		1	within a Wetla	nd? Yes <u>▼</u>	No	
Remarks:				·		
Emergent wetland along fringe of upper reach	es of lake.					
MEGETATION III (100						
VEGETATION – Use scientific names of	-	Division		Deminera Test	Tall	
Tree Stratum (Plot size: 30'	Absolute <u>% Cover</u>		nant Indicator ies? <u>Status</u>	Dominance Test wor		
1				Number of Dominant 5 That Are OBL, FACW,	or FAC	
2.				(excluding FAC-):	3 (,	(A)
3				Total Number of Domi	^	
4				Species Across All Str	rata: <u>3</u> (E	B)
0.00.0000	,	= Total	l Cover	Percent of Dominant S		
Sapling/Shrub Stratum (Plot size: 15' 1. Sesbania drummondii	_)	Yes	FACW	That Are OBL, FACW,	or FAC: 100 (A	A/B)
				Prevalence Index wo	rksheet:	
3				Total % Cover of:	Multiply by:	
4.				1	x 1 =	
5				1	x 2 =	
	10	= Tota	l Cover	1	x 3 =	
Herb Stratum (Plot size: 5')	40	17	EACW	1	x 4 =	
1. Eleocharis engelmannii		Yes No	FACW FACW		x 5 =	(5)
2. Persicaria pensylvanicum 3. Cyperus setigerns		No	FAC FAC	Column Totals:	(A)	(B)
Cyperus Reflexus		No	FAC	Prevalence Inde	x = B/A =	
5 Eleocharis quadrangulata	40	Yes	OBL	Hydrophytic Vegetat	ion Indicators:	
6. Xanthium strumarium	10	No	FAC	1 	Hydrophytic Vegetation	
7 Marsilea vestita	10	No	OBL	✓ 2 - Dominance Te		
8.				3 - Prevalence Inc		
9.				4 - Morphological	Adaptations ¹ (Provide suppor ks or on a separate sheet)	rting
10				1	ophytic Vegetation ¹ (Explain)	
201	125	= Total	l Cover			
Woody Vine Stratum (Plot size: 30'				be present, unless dist	oil and wetland hydrology mus turbed or problematic.	st
1.						
2		- Tota	Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 0			COVE	Present? Yo	es <u>√</u> No	
Remarks:			, ·		- <u> </u>	
Emergent wetland dominated by spikerush, wi	th a few Sesbar	nia. Hy	drophytic veg	getation criterion is met	t.	

SOIL Sampling Point: T15-DP7

Profile Desc	ription: (Describe	to the de	pth needed to docu	ment the	indicator	or confir	m the absence of in	dicators.)			
Depth	Matrix		Redo	x Featur		3					
(inches)	Color (moist)		Color (moist)	%_	Type ¹ _	Loc ²	Texture	Remarks			
0-3	10 YR 3/1	- 80	5 YR 5/8	20	_ <u>C</u>	M/PL	Clay				
4-8	10 YR 3/1	_ 55	5 YR 5/8	_ 20	_ <u>C</u>	<u>M</u>					
			10 YR 5/1	25	_ <u>D</u>	M					
8-16	Gley 2 3/5 PB	80	2.5 YR 3/6	20	_ <u>C</u>	М					
1- 00							2.				
7.7.			I=Reduced Matrix, C I LRRs, unless othe			ed Sand G		: PL=Pore Lining, M=Matrix. roblematic Hydric Soils ³ :			
Histosof		able to al	-		fatrix (S4)			•			
	ipedon (A2)			Redox (S				A9) (LRR I, J) e Redox (A16) (LRR F, G, H)			
Black Hi			•	d Matrix (-			e (S7) (LRR G)			
	n Sulfide (A4)				ineral (F1)			Depressions (F16)			
Stratified	Layers (A5) (LRR	F)	Loamy	Gleyed N	/latrix (F2)		(LRR H	outside of MLRA 72 & 73)			
	ck (A9) (LRR F, G,			ed Matrix	` '		Reduced Ve	` ,			
	Below Dark Surfac	e (A11)	✓ Redox					Material (TF2)			
	rk Surface (A12)				Surface (F7)		v Dark Surface (TF12)			
	lucky Mineral (S1) fucky Peat or Peat	(S2) /I DD		Depressi	. ,	16)		nin in Remarks)			
1	cky Peat or Peat (S				73 of LRF	•	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,				
	0.000	·, \	, (,		rbed or problematic.			
Restrictive L	ayer (if present):							·			
Туре:											
Depth (inc	:hes):						Hydric Soil Pres	ent? Yes <u>√</u> No			
Remarks:							<u> </u>				
Hydric soil c	riterion is met.										
HYDROLO	GV						<u> </u>				
							, -				
1	Irology Indicators:		d: chack all that anni	l. A			0	Bankan A C C			
		ne require	ed; check all that appl					licators (minimum of two required)			
	Water (A1)		Salt Crust		(D43)			oil Cracks (B6)			
Filgri vva:	ter Table (A2)		Aquatic In					Vegetated Concave Surface (B8)			
Saturatio	. ,		Hydrogen		Table (C2)		-	Patterns (B10)			
	t Deposits (B2)		✓ Oxidized F		, ,			Rhizospheres on Living Roots (C3)			
	osits (B3)			not tilled		ing roots		Burrows (C8)			
	t or Crust (B4)		Presence		•	1)	=	i Visible on Aerial Imagery (C9)			
Iron Dep			Thin Muck		,	''		nic Position (D2)			
	n Visible on Aerial I	magery (E					✓ FAC-Neut				
	ained Leaves (B9)				o.namo,			ve Hummocks (D7) (LRR F)			
Field Observ	, ,						<u> </u>	(51) (21111)			
Surface Wate		es	No ✓ Depth (in	ches):							
Water Table I			No Depth (in								
Saturation Pr			No V Depth (in			1	and Hydrology Pres	sent? Yes ✓ No			
(includes cap	illary fringe)										
Describe Rec	orded Data (stream	gauge, m	onitoring well, aerial	pnotos, p	revious ins	pections),	it available:				
Remarks:	na of lake -t = c→t.	-ئاساسىرسا	na shannal Data	maint:-	an []==-'	la:- 7-	- A 18/-H	-1			
vvetiand fring	ge or lake at north	i ena, aio	ng channel. Data	point is i	on Floodb	ıaın, ∠on	e A. vvetland hydr	ology criterion is met.			

Project/Site: 130 Environmental Park		Citv/Cour	ntv: Lockha	rt/Caldwell	Sampling Date:	06/25/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
• •					_ 1 5	
Landform (hillslope, terrace, etc.):					ex Slo	_{pe (%):} 0
Subregion (LRR): J - Southwestern Prairies						
				NWI classii		
Are climatic / hydrologic conditions on the site typical for						andoro
						NI-
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"		No
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS - Attach site ma				eeded, explain any answ	,	
SUMMERT OF FINDINGS - Attach site in	ap snowing	Sampi	ing point i	ocations, transect	.s, important le	atures, etc.
	No	ls	the Sampled	l Area		
	No		ithin a Wetlaı		No	_
	No					
Remarks:	roach of lako					
Forested wetland fringe along shoreline of upper	reach of lake	•				
VEGETATION - Use scientific names of pl	ants.					
201	Absolute		ınt Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plot size: 30'			s? Status	Number of Dominant	•	
1. Fraxinus pennsylvanica	60	Yes	FAC FAC	That Are OBL, FACW (excluding FAC-):	/, or FAC 4	(A)
2				(excluding 1 Ao).	·	(^)
3				Total Number of Dom Species Across All St		(B)
4				Openies Across Air or	<u> </u>	(D)
Sapling/Shrub Stratum (Plot size: 15'		= Total C	Cover	Percent of Dominant That Are OBL, FACW		(A/B)
1. Fraxinus pennsylvanica	40	Yes	FAC	That Ale OBL, FACW	, 01 FAC. 100	(A/B)
2.				Prevalence Index wo		
3.					: Multiply	
4				OBL species		
5				FACW species		
51	40	= Total C	Cover	FAC species		
Herb Stratum (Plot size: 5') 1. Cyperus reflexus	20	Yes	FAC	FACU species		
7 Teucrium canadense		No	FACW	UPL species Column Totals:		(D)
3. Cardiospermum halicacabum	20	Yes	FAC	Column Totals.	(A)	(B)
4. Euptarium serotinum	5	No	FAC	Prevalence Inde	ex = B/A =	
5. Pluchea camphorata		No	FACW	Hydrophytic Vegeta	tion Indicators:	
6				1 - Rapid Test for		ation
7				✓ 2 - Dominance To		
8				3 - Prevalence In		
9.				4 - Morphological	l Adaptations ¹ (Provi rks or on a separate	
10.				Problematic Hydr		•
		= Total C	Cover		-	,
Woody Vine Stratum (Plot size: 30')				¹ Indicators of hydric s be present, unless dis		
1				be present, unless dis		uc.
2				Hydrophytic		
% Bare Ground in Herb Stratum 45		= Total C	Cover	Vegetation Present? Y	′es_ <u>√</u> No	
Remarks:						
Small forested wetland stand dominated by greet	n ash trees ar	nd saplir	ngs. Hydrop	hytic vegetation criter	ion is met.	
		•				

SOIL Sampling Point: T15-DP8

Profile Des Depth	cription: (Describ Matrix	e to the de				r or confin	m the absence of i	ndicators.)
(inches)	Color (moist)	%	Color (moist	Redox Featur t) %	es Type ¹	Loc ²	Texture	Remarks
1-4	10 YR 2/1	90	5 YR 5/8	10	С	PL/M	Clay	· correction
5-8	10 YR 2/1	75	5 YR 5/8	25		PL/M		
9-10	10 YR 2/1		5 YR 5/8	20	- C			
			10 YR 5/2	—— 20 —	- -	- M		
		_	10 110 3/2		_ —	171		
							· ———	
								
						_		
	oncentration, D=De					ted Sand G		n: PL=Pore Lining, M=Matrix.
-	Indicators: (Appli	icable to al						Problematic Hydric Soils ³ :
Histosol	' '			ndy Gleyed M	. ,			(A9) (LRR I, J)
	pipedon (A2) istic (A3)			ndy Redox (S ipped Matrix (rie Redox (A16) (LRR F, G, H)
	en Sulfide (A4)			amy Mucky M)		ce (S7) (LRR G) s Depressions (F16)
. — –	d Layers (A5) (LRR	(F)		amy Gleyed M				outside of MLRA 72 & 73)
	uck (A9) (LRR F, G			pleted Matrix	, ,		Reduced V	,
	d Below Dark Surfa	ce (A11)		dox Dark Surf			Red Paren	t Material (TF2)
	ark Surface (A12)			pleted Dark S		7)	•	ow Dark Surface (TF12)
	Mucky Mineral (S1)	(CO) (LDD		dox Depression		'E4C\		lain in Remarks)
	Mucky Peat or Peat ucky Peat or Peat (\$			h Plains Depr (MLRA 72 &				ydrophytic vegetation and drology must be present,
0 0111 1110	acky real or real (30) (LIKIK I	,	(1112112121	10 0, EI			urbed or problematic.
Restrictive	Layer (if present):			_				
Туре: <u>10</u>								
Depth (in	ches): Hardpan						Hydric Soil Pres	sent? Yes <u>√</u> No
Remarks:			2 - 2 - 118					
Hydric soil o	criterion is met.							
HYDROLO	GV							
	drology Indicators cators (minimum of		d: abook all that	annlu)			Casandanida	alta de la companya d
Surface		one require		rust (B11)				dicators (minimum of two required)
	iter Table (A2)		,	ic Invertebrat	ac (B13)			Soil Cracks (B6) Vegetated Concave Surface (B8)
Saturation				gen Sulfide C			•	Patterns (B10)
	larks (B1)			eason Water		2)	_	Rhizospheres on Living Roots (C3)
	nt Deposits (B2)			ed Rhizosphe				e tilled)
	posits (B3)			ere not tilled			, ,	Burrows (C8)
	at or Crust (B4)		•	nce of Reduc	•	24)		on Visible on Aerial Imagery (C9)
Iron Dep	osits (B5)		Thin N	/luck Surface	(C7)			phic Position (D2)
Inundation	on Visible on Aerial	Imagery (E	7) Other	(Explain in Re	emarks)		FAC-Net	utral Test (D5)
Water-S	tained Leaves (B9)						Frost-He	ave Hummocks (D7) (LRR F)
Field Obser			_					
Surface Water			No ✓ Depti					
Water Table			No <u>✓</u> Depti					
Saturation Pr		Yes	No 🔨 Depti	h (inches):		Wet	land Hydrology Pre	esent? Yes <u>√</u> No
(includes cap Describe Red	corded Data (strear	n gauge, m	onitoring well, ae	rial photos, p	revious in	spections),	if available:	
	,			. , , , ,		, ,		
Remarks:								·
	s on Floodplain Z	one A. W	etland hydrolog	gy criterion is	s met.			
			-					

Project/Site: 130 Environmental Park	(City/County: Lockha	ırt/Caldwell	_ Sampling Date: 06/	25/2013
Applicant/Owner: 130 Environmental Park, LLC		State: TX Sampling Point; T15-			
		Section, Township, Ra		_	
Landform (hillslope, terrace, etc.): Lake shore			convex, none): Concar	ve Slope (%): 1
			Long: -97.65		
Soil Map Unit Name: W - Water			NWi classifi		
Are climatic / hydrologic conditions on the site typical for	this time of ver	_			
Are Vegetation, Soil, or Hydrology			"Normal Circumstances"		No
Are Vegetation, Soil, or Hydrology			eeded, explain any answ		. 110
SUMMARY OF FINDINGS — Attach site ma			-	ŕ	ıres, etc.
Hydrophytic Vegetation Present? Yes ✓ Hydric Soil Present? Yes ✓		Is the Sample	_		
	No	within a Wetla	nd? Yes <u>▼</u>	No	
Remarks:				·	
Emergent wetland on east side of channel, at upp	er reach of la	ake.			
, 11					
VEGETATION – Use scientific names of pla	ants				
TEGETATION 030 Solonano hames of pa	Absolute	Dominant Indicator	Dominance Test wor	ksheet:	
<u>Tree Stratum</u> (Plot size: 30'		Species? Status	Number of Dominant S		
1			That Are OBL, FACW,		
2			(excluding FAC-):		(A)
3			Total Number of Domi	nant	
4	-		Species Across All Str	rata: 2	(B)
Sapling/Shrub Stratum (Plot size: 15'		= Total Cover	Percent of Dominant S		(4 (7)
1			That Are OBL, FACW,	, or FAC: 100	(A/B)
2.			Prevalence Index wo	rksheet:	
3.			Total % Cover of:		
4.			F	x 1 =	
5			l .	x 2 =	
51		= Total Cover		x 3 =	
Herb Stratum (Plot size: 5') 1. Eleocharis engelmannii	40	Yes FACW	1	x 4 = x 5 =	
2. Persicaria pensylvanicum	70	Yes FACW			
3 Cyperus reflexus	10	No FAC	Column Totals.	(^)	(B)
4			Prevalence Inde:	x = B/A =	
5			Hydrophytic Vegetati	ion Indicators:	
6				Hydrophytic Vegetation	٦
7			✓ 2 - Dominance Te		
8.			3 - Prevalence Inc		
9.			4 - Morphological	Adaptations ¹ (Provide s ks or on a separate she	supporting
10.				ophytic Vegetation ¹ (Ex	-
201	120	= Total Cover		, ,	. ,
Woody Vine Stratum (Plot size: 30')			'Indicators of hydric so be present, unless dist	oil and wetland hydrolog	jy must
1				terode of problematic.	
2			Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 0		= Total Cover	Present? Ye	es <u>√</u> No	_
Remarks:					
Emergent wetland fringe along upper reach of lak	e. Hydrophy	tic vegetation criteri	ion is met.		
		_			

Sampling Point: T15-DP9

c	റ	ı	
J	v	ш	느

Depth	cription: (Describe Matrix	e to the de	pth needed		nent the x Featur		or confir	m the absenc	e of indicators.)
(inches)	Color (moist)	%	Color	(moist)	<u>%</u>	Type ¹	Loc ²		Remarks
0-3	10 YR 3/1	80	5 YR 5/	8	20	_ <u>C</u>	M/PL	Clay	
4-8	10 YR 3/1	55	5 YR 5/	8	20	С	М		
			10 YR 5	5/1	25	D	М		
8-16	Gley 2 3/5PB	80	2.5 YR	3/6	20	Ç	М	-	
	-								
			-						
	_								
1Trum av. C=C				Matrix CC			. 1010	2 2	
	oncentration, D=De Indicators: (Appli						ed Sand C		ocation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
Histoso				_ Sandy G					Muck (A9) (LRR I, J)
Histic E	pipedon (A2)			_ Sandy R					et Prairie Redox (A16) (LRR F, G, H)
_	istic (A3)		_	_ Stripped	-				Surface (S7) (LRR G)
1	en Sulfide (A4) d Layers (A5) (LRR	E)	_			ineral (F1) Iatrix (F2)			Plains Depressions (F16)
	uck (A9) (LRR F, G,		_	_ Loanily o		, ,			RR H outside of MLRA 72 & 73) uced Vertic (F18)
	d Below Dark Surfa		$\overline{\checkmark}$	Redox D					Parent Material (TF2)
_	ark Surface (A12)		_			urface (F7)		Shallow Dark Surface (TF12)
	Mucky Mineral (S1)	(CO) /L BB	- LIN -	_ Redox D			-40)		r (Explain in Remarks)
	Mucky Peat or Peat ucky Peat or Peat (\$					essions (F			s of hydrophytic vegetation and nd hydrology must be present,
	aony i out of i out (, (_ , (_, , , , , , , , , , , , , , , , , ,	,	(24	01,720	TO OT LIKE	,		s disturbed or problematic.
Restrictive	Layer (if present):								
Type:									
Depth (in	ches):							Hydric So	il Present? Yes <u>√</u> No
Remarks:									
Hydric soil o	criterion met.								
HYDROLO	GY								
Wetland Hy	drology Indicators	:							
Primary India	cators (minimum of	one require	ed; check al	I that apply	/)			Second	dary Indicators (minimum of two required)
Surface	Water (A1)		;	Salt Crust ((B11)			Su	rface Soil Cracks (B6)
High Wa	iter Table (A2)		/	Aquatic Inv	ertebrate	es (B13)		Sp	arsely Vegetated Concave Surface (B8)
Saturatio				Hydrogen S				Dra	ainage Patterns (B10)
	larks (B1)			Dry-Seasor					idized Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		<u>~</u> (Oxidized R			ing Roots	. ,	where tilled)
	oosits (B3)			where n		•	4)		ayfish Burrows (C8)
	at or Crust (B4) posits (B5)			Presence o Fhin Muck∜			+)		turation Visible on Aeria! Imagery (C9) omorphic Position (D2)
-	on Visible on Aerial	Imagery (E		Other (Expl					C-Neutral Test (D5)
	tained Leaves (B9)	37 (-							ost-Heave Hummocks (D7) (LRR F)
Field Observ									(2)
Surface Water	er Present?	/es	No <u></u> ✓	Depth (inc	hes):				
Water Table			No <u></u> ✓						
Saturation Pr		/es	No <u>✓</u>	Depth (inc	hes):	_	Wet	land Hydrolog	gy Present? Yes ✓ No
(includes cap Describe Red	oillary tringe) corded Data (strean	n gauge, m	onitoring we	ell, aerial p	hotos, pi	revious ins	pections)	if available:	
	_ \	U ::U=; :::	-3	,	1 #r.		,	,	
Remarks:						,			
Wetland frin	ge of upper reach	of lake.	Site is on	Floodplair	n Zone	A. Wetla	nd hydro	logy criterion	is met.

Project/Site: 130 Environmental Park	,	City/C	ounty	Lockha	rt/Caldwel l	Samplin	g Date: 06/	/26/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX			
•							J	
- " " " " " " " " " " " " " " " " " " "					convex, none): None		Slone ((%). 3
Subregion (LRR): J - Southwestern Prairies					Long: <u>-97.</u> 65			
Soil Map Unit Name: CrC2 - Crockett soils, 2-5% s					NWI classif			
•								2010
Are climatic / hydrologic conditions on the site typical for the								
Are Vegetation, Soil, or Hydrology					"Normal Circumstances"			_ No
Are Vegetation, Soil, or Hydrology	naturally pro	blema	atic?	(If ne	eeded, explain any answ	ers in Rem	arks.)	
SUMMARY OF FINDINGS – Attach site map	showing	sam	plin	g point l	ocations, transect	s, impor	tant feat	ures, etc.
Hydrophytic Vegetation Present? Yes	No <u>✓</u>		le th	e Sampled	I Aroa			
Hydric Soil Present? Yes				in a Wetlar		No	✓	
Wetland Hydrology Present? Yes	No <u>✓</u>		******	iii u vvetiai				
Remarks:								
Upland herbaceous area to east of upper reaches	of lake and	fringe	e wetl	ands.				
VEGETATION – Use scientific names of pla	nts.							
30'	Absolute			Indicator	Dominance Test wor	ksheet:	-	
<u>Tree Stratum</u> (Plot size: 30'	% Cover				Number of Dominant			
1					That Are OBL, FACW (excluding FAC-):	, or FAC	2	(A)
2								(/)
3					Total Number of Dom Species Across All Str		4	(B)
4			-10-					(0)
Sapling/Shrub Stratum (Plot size: 151)		= 10t	al Cov	/er	Percent of Dominant S That Are OBL, FACW		50	(A/B)
1. Sesbania drummondii	2	Yes		FACW	That Ale OBL, FACW	, or FAG.		(A/B)
2. Prosopis glandulosa	5	Yes		FACU	Prevalence Index wo	rksheet:		
3.					Total % Cover of:			
4.					OBL species			
5					FACW species			
	7	= Tot	al Cov	/er	FAC species			
Herb Stratum (Plot size: 51		7.7		LIDI	FACU species			
1. Buchloe dactyloides	75	Yes		UPL		x 5		
2. Phalaris caroliniana	$-\frac{25}{5}$	Yes		FACW	Column Totals:	(A))	(B)
3. Tridens albescens		No		FAC	Prevalence Inde	x = B/A =		
4					Hydrophytic Vegetat			
5					1 - Rapid Test for	Hydrophyt	ic Vegetatio	n
6					2 - Dominance Te	est is >50%	3	
7					3 - Prevalence Inc	dex is ≤3.0¹		
8					4 - Morphological	Adaptation	s ¹ (Provide	supporting
9					data in Remar	ks or on a s	eparate she	eet)
10			10		Problematic Hydr	ophytic Veç	getation ¹ (Ex	oplain)
Woody Vine Stratum (Plot size: 30')	103	= 101	al Cov	/er	¹ Indicators of hydric so	oil and wetl	and hydrolo	gy must
1					be present, unless dis			.,
2					Hydrophytic			
		= Tot	al Cov	_ /er	Vegetation		/	
% Bare Ground in Herb Stratum 0					Present? Y	es	No <u>√</u>	
Remarks:					-			
Herbaceous upland area dominated by buffalo gra	ss. Hydrop	hytic	veget	ation crite	erion is not met.			

Sampling Point: T15-DP10 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Type[†] Loc² (inches) Color (moist) Color (moist) ___ % Texture 0 - 1010 YR 3/2 100 Clay Hard ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: ___ Sandy Gleyed Matrix (S4) Histosol (A1) _ 1 cm Muck (A9) (LRR I, J) ___ Sandy Redox (S5) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR F, G, H) Black Histic (A3) ___ Stripped Matrix (S6) _ Dark Surface (S7) (LRR G) __ Hydrogen Sulfide (A4) ___ Loamy Mucky Mineral (F1) High Plains Depressions (F16) ___ Loamy Gleyed Matrix (F2) __ Stratified Layers (A5) (LRR F) (LRR H outside of MLRA 72 & 73) _ 1 cm Muck (A9) (LRR F, G, H) ___ Depleted Matrix (F3) Reduced Vertic (F18) ___ Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Red Parent Material (TF2) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Other (Explain in Remarks) ___ High Plains Depressions (F16) ___ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) ³Indicators of hydrophytic vegetation and 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Claypan Depth (inches): 10 Hydric Soil Present? Yes ___ Remarks: No hydric soil indicators observed. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) __ Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) __ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Hydrogen Sulfide Odor (C1) ___ Drainage Patterns (B10) ___ Dry-Season Water Table (C2) Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ___ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations:

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

Remarks:

Data point is on Floodplain Zone A; however no other hydrology indicators were observed. Wetland hydrology criterion is not met.

Yes ____ No ✓ Depth (inches): _

Yes _____ No <u>✓</u> Depth (inches): _____

Surface Water Present?

Water Table Present?

Saturation Present? (includes capillary fringe) Wetland Hydrology Present? Yes _ _ No ✓

Project/Site: 130 Environmental Park	C	ity/County	v: Lockha	rt/Caldwell	Sampling Date: 07/11/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T15-DP11
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Fringe wetland					e Slope (%): 0-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: CrC2 - Crockett soils, 2-5% slo					
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology s					resent? Yes ✓ No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answer	
					,
SUMMARY OF FINDINGS – Attach site map	snowing :	sampiir	ig point i	ocations, transects	important features, etc.
Hydrophytic Vegetation Present? Yes ✓ N	lo	le ti	he Sampled	I Araa	
Hydric Soil Present? Yes ✓ N	o		nin a Wetlar		No
Wetland Hydrology Present? Yes ✓ N	°				····
Remarks:					
					<u> </u>
VEGETATION – Use scientific names of plan	ts.				
30'			t Indicator	Dominance Test work	
Tree Stratum (Plot size: 30') 1. Ulmus crassifolia	<u>% Cover</u> .	Species? Yes	FAC	Number of Dominant Sp	
				That Are OBL, FACW, of (excluding FAC-):	
3.				Total Number of Domina	ant
4				Species Across All Stra	4
	25	Total Co	ver	Percent of Dominant Sp	necies
Sapling/Shrub Stratum (Plot size: 15')			7.0	That Are OBL, FACW, of	
1. Sesbania drummondii	80	Yes	FACW	Prevalence Index work	(sheet:
2				Total % Cover of:	
3					x 1 =
4. 5.				FACW species	x 2 =
0.	80		ver	FAC species	x 3 =
Herb Stratum (Plot size: 5'					× 4 =
1. Cyperus polystachyos	30	Yes	FACW	UPL species	
2. Pluchea camphorata	30	Yes	FACW_	Column Totals:	(A) (B)
3				Prevalence Index	= B/A =
4				Hydrophytic Vegetatio	
5				1 - Rapid Test for H	lydrophytic Vegetation
6				✓ 2 - Dominance Tes	
8				3 - Prevalence Inde	
9.				4 ~ Morphological A	daptations ¹ (Provide supporting or on a separate sheet)
10				1	phytic Vegetation ¹ (Explain)
201	60	= Total Co	ver		, , ,
Woody Vine Stratum (Plot size: 30'				be present, unless distu	and wetland hydrology must rbed or problematic.
1				I to refer to the setting	
2	:			Hydrophytic Vegetation	,
% Bare Ground in Herb Stratum 0		TOTAL OU		Present? Yes	s_√ No
Remarks:					
Tress on perimeter of fringe wetland.					

SOIL Sampling Point: T15-DP11

Profile Des	cription: (Describe	to the dept	h needed to docu	ment the	indicator	or confir	m the absence of in	dicators.)
Depth	Matrix			x Feature	es			
(inches) 0-16	Color (moist) 10 YR 4/1	<u>%</u>	Color (moist) 10 YR 5/8	%	Type ¹	Loc ²	Texture	Remarks
0-10		_ = = -		_ 20	_ <u>C</u>	M/PL	Clay	
			5 YR 4/6	30	_ <u>C</u>	M/PL		
								-
	-			-				
¹ Type: C=C	oncentration, D=De	pletion, RM=	Reduced Matrix, C	S=Covere	d or Coate	ed Sand G	rains. ² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all l			•		Indicators for F	Problematic Hydric Soils ³ :
Histoso	. ,				atrix (S4)			(A9) (LRR I, J)
	pipedon (A2)			Redox (S	-			ie Redox (A16) (LRR F, G, H)
1	listic (A3)			d Matrix (ce (S7) (LRR G)
1 — ' "	en Sułfide (A4) d Layers (A5) (LRR	E)			neral (F1) latrix (F2)			Depressions (F16) outside of MLRA 72 & 73)
	uck (A9) (LRR F, G,		✓ Deplete				Reduced Ve	•
į —	d Below Dark Surfa	•		Dark Surf	. ,		Red Parent	
Thick D	ark Surface (A12)	, ,	Deplete	d Dark Si	urface (F7))		w Dark Surface (TF12)
	Mucky Mineral (S1)			Depressio				ain in Remarks)
	Mucky Peat or Peat			,	`	,		drophytic vegetation and
5 cm Mi	ucky Peat or Peat (S	53) (LRR F)	(ML	RA /2 &	73 of LRR	(H)		rology must be present,
Restrictive	Layer (if present):						uniess distu	rbed or problematic.
1	ches):						Hydric Soil Pros	ent? Yes ✓ No
Remarks:	G1103).						Trydric don Fles	
Tremants.								
							<u>.</u>	
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one required:	check all that appl	V)				dicators (minimum of two required)
	Water (A1)		Salt Crust	` '				Boil Cracks (B6)
ľ	ater Table (A2)		Aquatic In					Vegetated Concave Surface (B8)
Saturati	, ,		Hydrogen		. ,			Patterns (B10)
Water M	, ,		Dry-Seaso					Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		Oxidized F			ing Roots		•
Drift De			•	not tilled)				Burrows (C8)
l '	at or Crust (B4)		Presence		•	+}		n Visible on Aerial Imagery (C9)
	oosits (B5) on Visible on Aerial	Imagen//R7	Thin Muck) Other (Exp					hic Position (D2)
_	tained Leaves (B9)	iiilagety (b7)	Other (Exp	иант пт гд	ernarks)			tral Test (D5)
Field Obser						1		ave Hummocks (D7) (LRR F)
Surface Wat		/es √ N	o Depth (inc	-hes). 0-	4"			
Water Table			o <u>√</u> Depth (inc			-		
Saturation P			o V Depth (inc				and Hydrology Dro	sent? Yes ✓ No No
(includes car	oillary fringe)							sentr les <u>v</u> NO
Describe Re	corded Data (stream	n gauge, mor	nitoring well, aerial p	ohotos, pr	evious ins	pections),	if available:	
Remarks:								



Data Point 1 Lacustrine Fringe Wetlands



Data Point 1 Lacustrine Fringe Wetlands



Data Point 2 Floodplain Meadows



Data Point 3 Mesquite Woods



Data Point 4 Sumpweed Depressions



Data Point 5 Emergent Wetlands

T15 - Page 2



Data Point 6
Forested Wetlands



Data Point 7
Emergent Wetlands



Data Point 8
Forested Wetlands

T15 - Page 3



Data Point 9 Emergent Wetlands



Data Point 10 Floodplain Meadows



Data Point 11 Lacustrine Fringe Wetlands



Data Point 11 Lacustrine Fringe Wetlands

THIS PAGE LEFT BLANK INTENTIONALLY

Project/Site: 130 Environmental Park		Citv/C	ounty:	Lockha	rt/Caldwell	Sampling	_{1 Date:} 06/	24/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX			
							,	
					convex, none): Convex		Slope (%): 7
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: FeE - Fett gravelly soils, 1-12%					NWI classific			
Are climatic / hydrologic conditions on the site typical for this								
Are Vegetation, Soil, or Hydrology s					"Normal Circumstances"	-	Van J	No
Are Vegetation, Soil, or Hydrology r					eeded, explain any answe		•	. NO
							ŕ	
SUMMARY OF FINDINGS – Attach site map	showing	sam	pline	g point l	ocations, transects	i, import	ant featu	ıres, etc.
Hydrophytic Vegetation Present? Yes N	o √		1- 41-	- 0	1.8			
Hydric Soil Present? Yes N	o V			e Sampled in a Wetlar		No	1	
Wetland Hydrology Present? Yes N	∘ ✓		WILLI	iii a **etiai	165		<u> </u>	
Remarks:								
Cedar elm - post oak transition. Woodland type in u	pland area	a in w	ester	n part of p	property.			
VEGETATION – Use scientific names of plan	te .							
	Absolute	Dom	ninant	Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30'	% Cover			Status	Number of Dominant S			
1. Ulmus crassifolia	50	Yes		FAC	That Are OBL, FACW,	or FAC	3	(4)
2. Quercus stellata	30	Yes		FACU	(excluding FAC-):		<u> </u>	(A)
3					Total Number of Domin		7	(D)
4					Species Across All Stra			(B)
Sapling/Shrub Stratum (Plot size: 151)	80	= Tota	al Cov	er	Percent of Dominant S That Are OBL, FACW,		42.9	(A/B)
1. Prosopis glandulosa	20	Yes		FACU	mat Are OBL, FACTV,	OI FAC:	12.0	(A/B)
2. Ilex vomitoria	20	Yes		FAC	Prevalence Index wo			,
3.					Total % Cover of:	-		
4					OBL species			
5					FACW species			
Herb Stratum (Plot size: 5')	40	= Tota	al Cov	er	FAC species			
Hero Stratum (Plot size:) 1 Elymus virginicus	30	Yes		FAC			5 =	
2. Opuntia lindheimeri	10	Yes		UPL	Column Totals:			
3 Vernonia baldwinii	5	No		FACU				
4	-				Prevalence Index			
5					Hydrophytic Vegetati			
6					1 - Rapid Test for		c Vegetatior	1
7					2 - Dominance Tes			
8					3 - Prevalence Ind 4 - Morphological		ر ماداد ماداد ماداد ا	
9					data in Remark	s or on a s	eparate she	et)
10					Problematic Hydro	phytic Veg	jetation¹ (Ex	plain)
Woody Vine Stratum (Plot size: 30'	45	= Tota	al Cov	er	¹ Indicators of hydric so	il and wetls	and hydrolor	av muet
1 Smilax bona-nox	15	Yes		FACU	be present, unless dist			gy musi
2.					Hydrophytic			
	15	= Tota	al Cov	er	Vegetation		,	
% Bare Ground in Herb Stratum 55					Present? Ye	.s	No <u>√</u>	<u> </u>
Remarks:						<u></u>		
Upland woods. Hydrophytic vegetation criterion is n	ot met.							

SOIL Sampling Point: T16-DP1

Profile Desc	cription: (Descri	be to the depth i	needed to docun	nent the i	ndicator	or confirn	n the absence	of indicators	s.)	
Depth	Matrix			x Feature:	s					
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-10	10 YR 6/3	100					Sand	Gravelly		
									_	
										
l ———										
Tuno: C=C	noontrotion D=F	Landation DM-Da	duood Motrix, CS			d Cond Co	21 -			
	oncentration, D=D Indicators: (App					a Sana Gr			ore Lining, M= atic Hydric Sc	
Histosol		modbic to all Eld		Sleyed Ma					•	ль .
ı —	oipedon (A2)			ledox (S5				fluck (A9) (LR Prairie Redov	: (A16) (LRR F	: G U)
Black Hi				Matrix (S				urface (S7) (, 0, 11)
	n Sulfide (A4)			lucky Min				lains Depress		
Stratified	Layers (A5) (LR	R F)	Loamy (Sleyed Ma	trix (F2)				of MLRA 72 8	i 73)
	ck (A9) (LRR F, C			d Matrix (F			Reduc	ed Vertic (F18	3)	
	Below Dark Surf	ace (A11)		ark Surfa	, ,			arent Material		
	rk Surface (A12)				rface (F7)		-		Surface (TF12)	
	lucky Mineral (S1 lucky Peat or Pea			epressior		10)		Explain in Re		,
	cky Peat or Peat				ssions (F'	-			c vegetation a	
	cky r cat or r cut	(OO) (ERRE)	(INIL)	VA 12 W 1	3 OI LIXIX	•••		disturbed or p	ust be present	••
Restrictive L	.ayer (if present)	:	·				0000	and tall bod of	orobicinatio.	
Type: Ha										
Depth (inc			_				Hydric Soil	Present?	Yes	No ✓
Remarks:							,	. 1000111.		
	oil indicators obs	served.								
The try aris se	III diodioio obi	, o, r o d i								
					<u>_</u>				_	
HYDROLO	GY									
Wetland Hyd	Irology Indicator	's:								
Primary Indic	ators (minimum o	f one required; ch	neck all that apply	')			Seconda	rv Indicators (minimum of ty	vo required)
Surface \	Water (A1)		Salt Crust (B11)				ace Soil Cracl		
l —	ter Table (A2)		Aquatic Inv		s (B13)				ed Concave Su	irface (B8)
Saturatio			Hydrogen S		,			nage Patterns		
	arks (B1)		Dry-Seasor					_	heres on Living	Roots (C3)
Sedimen	t Deposits (B2)		Oxidized R		, ,	ng Roots (here tilled)	10.00 011 211111	, 1 10010 (00)
	osits (B3)		(where n	•			,	fish Burrows	(C8)	
	t or Crust (B4)		Presence o	,	d Iron (C4)			on Aerial Imag	jerv (C9)
	osits (B5)		Thin Muck			,		morphic Posit		,0.7 (00)
Inundatio	n Visible on Aeria	al Imagery (B7)	Other (Exp					-Neutral Test	, ,	
Water-St	ained Leaves (B9)			,				mocks (D7) (L	RR F)
Field Observ	ations:									
Surface Wate	r Present?	Yes No	✓ Depth (inc	hes):						
Water Table I			✓ Depth (inc							
Saturation Pr			✓ Depth (inc				and Hydrology	Present?	Yos	No 🗸
(includes cap		140_	Doput (inc				yarology	. resettt		¥
	orded Data (strea	m gauge, monito	ring well, aerial p	hotos, pre	vious insp	pections),	if available:			
Remarks:								<u> </u>		
Data point is	on Floodplain 2	Zone A; howeve	er no other hydr	ology ind	dicators v	vere obse	erved. Wetlar	nd hydrology	criterion is r	not met.

Project/Site: 130 Environmental Park		City/Co	ounty: Lockha	art/Caldwell	_ Sampling Date: 06/24/2013
Applicant/Owner: 130 Environmental Park, LLC		-	= '		Sampling Point: T16-DP2
_			n, Township, R		
Landform (hillslope, terrace, etc.): Valley					Slone (%): 2
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: FEE - Fett gravelly soils, 1-12					ication: None available
•					
Are climatic / hydrologic conditions on the site typical for the					
Are Vegetation, Soil, or Hydrology					' present? Yes ✓ No
Are Vegetation, Soil, or Hydrology	naturally pro	blema	itic? (If r	needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	sam	pling point	locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes	No √		Is the Sample	d Aron	
Hydric Soil Present? Yes			within a Wetla		No <u>√</u>
Wetland Hydrology Present? Yes	No <u></u> ✓		WILLIIII & WELL	ilu: 165	
Remarks:					
Grassy open meadow.					
VECETATION Line seigntific names of pla	nto.		****		
VEGETATION - Use scientific names of pla			to one bodication	D	
Tree Stratum (Plot size: 30'	Absolute % Cover		ilnant Indicator cies? <u>Status</u>	Dominance Test wor Number of Dominant	
1				That Are OBL, FACW	or FAC
2.				(excluding FAC-):	<u>1</u> (A)
3.				Total Number of Dom	inant
4				Species Across All St	
		= Tota	al Cover	Percent of Dominant S	Species
Sapling/Shrub Stratum (Plot size: 15')				That Are OBL, FACW	
1				Prevalence Index wo	orksheet:
2					Multiply by:
3					x1=
4		-			x 2 =
5					x 3 =
Herb Stratum (Plot size: 5'		= 1018	al Cover		× 4 =
1. Phalaris caroliniana	60	Yes	FACW	UPL species	x 5 =
2. Tridens albescens	10	No	FAC	Column Totals:	(A) (B)
3. Solanum elaeagnifolium	10	No	UPL		7.1
4. Ambrosia psilostachya	10	No	FACU		ex = B/A =
5. Iva annua		No	FAC	Hydrophytic Vegetat	
6					Hydrophytic Vegetation
7				2 - Dominance Te	
8.					Adaptations ¹ (Provide supporting
9				- data in Remar	ks or on a separate sheet)
10				- Problematic Hydr	ophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30'	100	= Tota	al Cover	1Indicators of hydric s	oil and wetland hydrology must
Smilax bona-nox	10	Yes	FACU		sturbed or problematic.
2.				Hydrophytic	
	10	= Tota	al Cover	Vegetation	,
% Bare Ground in Herb Stratum 0				Present? Y	'es No <u>√</u>
Remarks:					<u> </u>
Herbaceous meadow dominated by canary grass a	ınd greenbr	ier. H	lydrophytic ve	getation criterion is no	t met.
}					

Sampling Point: T16-DP2 SOIL

Profile Des	Matrix			x Features			
(inches)	Color (moist)		Color (moist)	%Туре	Loc ²	Texture	Remarks
0-16	10 YR 2/1	100				Silty clay	
				·			
				<u> </u>			
	-						
	oncentration, D=De				ated Sand Gr		tion: PL=Pore Lining, M=Matrix.
	Indicators: (Applic	cable to all LRF					or Problematic Hydric Soils ³ :
Histosol	' '		-	Gleyed Matrix (S	1)		ck (A9) (LRR I, J)
	pipedon (A2)			Redox (S5)			airie Redox (A16) (LRR F, G, H)
	istic (A3)			d Matrix (S6) Mucky Mineral (F	4)		face (S7) (LRR G)
	en Sulfide (A4) d Layers (A5) (LRR	E)		Mucky Minerai (F Gleyed Matrix (F:	•		ins Depressions (F16) H outside of MLRA 72 & 73)
	ick (A9) (LRR F, G,			d Matrix (F3)	۷)	,	I Vertic (F18)
	d Below Dark Surfac			Dark Surface (F6)		ent Material (TF2)
	ark Surface (A12)	((d Dark Surface (allow Dark Surface (TF12)
Sandy N	lucky Mineral (S1)			Depressions (F8)	•		xplain in Remarks)
2.5 cm N	Mucky Peat or Peat	(S2) (LRR G, H) High Pla	ains Depressions	(F16)		hydrophytic vegetation and
5 cm Mu	icky Peat or Peat (S	3) (LRR F)	(ML	RA 72 & 73 of L	RR H)	wetland h	nydrology must be present,
				·		unless di	sturbed or problematic.
Restrictive I	Layer (if present):						
Type:							
Depth (inc	ches):		_			Hydric Soil Pa	resent? Yes No ✓
Remarks:							
No hydric so	oil indicators obse	rved.					
YDROLO	CV						
-	drology Indicators						
•	ators (minimum of o	one required; ch				Secondary	Indicators (minimum of two required)
_	Water (A1)		Salt Crust	• /			e Soil Cracks (B6)
	iter Table (A2)			vertebrates (B13)			ely Vegetated Concave Surface (B8)
Saturation				Sulfide Odor (C1			ge Patterns (B10)
	arks (B1)			n Water Table (C			ed Rhizospheres on Living Roots (C3
	nt Deposits (B2)			Rhizospheres on	_iving Roots (· · · · · · · · · · · · · · · · · · ·	ere tilled)
	oosits (B3)			not tilled)		=	sh Burrows (C8)
	it or Crust (B4)			of Reduced Iron (C4)	Satura	tion Visible on Aerial Imagery (C9)
	osits (B5)		Thin Muck			Geom	orphic Position (D2)
Inundatio	on Visible on Aerial	lmagery (B7)	Other (Exp	lain in Remarks)		FAC-N	leutral Test (D5)
Water-Si	tained Leaves (B9)					Frost-l	Heave Hummocks (D7) (LRR F)
ield Obser			,				
Surface Wate				ches):			
Vater Table	Present? Y	′es No _	Depth (in	ches):			
Saturation Pr	esent? Y			ches):	j ,	and Hydrology F	Present? Yes No 🗸
includes cap Describe Red	illary fringe) corded Data (stream	n daude monito	ring well aerial r	photos previous	inspections)	if available:	
SOSCIDE IVE	Solded Data (stied))	, gaage, monitor	ig won, acriai j	motos, previous	паресиона),	n avanavic.	
) = == = ul							-
Remarks:	on Floodstate 2	ν ο Α. Ε.·····		mala av : != =!! !		aminal 386 ()	I bendante a series a
	s on Floodplain Zo	one A; howeve	r no other hyd	rology indicator	s were obse	erved. Wetland	I hydrology criterion is not met.

Project/Site: 130 Environmental Park	(Citv/C	ountv	Lockhai	rt/Caldwell	Samplin	α Date: 0	6/24/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX			
Investigator(s): Troegle, Josh & Boe, Brian						_ ೦೮///թուն	3 1 OIII. <u>-</u>	
				-	convex, none): Conca			(0/) 2
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: FeE - Fett gravelly soils, 1-12	% slopes				NWI classifi	cation: No	one avai	ilable
Are climatic / hydrologic conditions on the site typical for the	is time of yea	ar? Y	es 🗹	No _	(If no, explain in I	Remarks.)		
Are Vegetation, Soil, or Hydrology	significantly	disturl	bed?	Are "	Normal Circumstances"	present?	Yes <u></u> ✓	No
Are Vegetation, Soil, or Hydrology	naturally pro	blema	itic?	(If ne	eded, explain any answ	ers in Rem	arks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	plin	g point le	ocations, transects	s, impor	tant fea	tures, etc.
Hydrophytic Vegetation Present? Yes ✓	No							
Hydric Soil Present? Yes V				e Sampled				
Wetland Hydrology Present? Yes ✓ 1			with	in a Wetlar	ıd? Yes_ <u>▼</u>	No		
Remarks:								
Swale that drains to channel south of transect.								
VEGETATION – Use scientific names of plan	nts.							
30'	Absolute				Dominance Test wor	ksheet:		
Tree Stratum (Plot size: 30'					Number of Dominant S			
1					That Are OBL, FACW, (excluding FAC-):	or FAC	2	(A)
2								(, ,
3					Total Number of Domi Species Across All Str		2	(B)
4				·····				(-)
Sapling/Shrub Stratum (Plot size: 15')		- 100	ai cov	(6)	Percent of Dominant S That Are OBL, FACW,		100	(A/B)
1.								(,,,,
2					Prevalence Index wo			
3					Total % Cover of:			
4					OBL species			
5					FAC species			
Herb Stratum (Plot size: 5')		= Tota	al Cov	/er	FACU species			
1 Carex brevior	50	Yes		FAC	UPL species			
2. Eleocharis engelmannii	50	Yes		FACW	Column Totals:			
3.								
4.					Prevalence Index	c = B/A =		
5					Hydrophytic Vegetati			
6.					1 - Rapid Test for		_	ion
7.					✓ 2 - Dominance Te			
8.					3 - Prevalence Inc			
9.					4 - Morphological data in Remark	Adaptation	s' (Provide enarate s'	e supporting
10					Problematic Hydro			,
	400	= Tota	al Cov	/er				. ,
Woody Vine Stratum (Plot size: 301)					¹ Indicators of hydric so be present, unless dist			
1								·
2					Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 0		= Fot	al Cov	/er	Present? Ye	es <u> </u>	No	
Remarks:								-
Emergent wetland dominated by sedge and spike re	ush. Hydro	phyti	c veg	etation cri	terion is met.			
	-	•						

SOIL Sampling Point: T16-DP3

Profile Description: (Describe to the de	epth needed to docu	ment the	indicator	or confirm	the absence of	indicators.)
Depth Matrix		ox Feature				
(inches) Color (moist) % 0-4 10 YR 2/1 97	Color (moist)	%	Type ¹	_Loc ² _	Texture	Remarks
0-4 10 TR 2/1 9/	10 YR 5/6	_ 3			Clay _	
	·					
,						
						
						
	·	_				
¹ Type: C=Concentration, D=Depletion, RI	M=Reduced Matrix, C	S=Covere	d or Coate	d Sand Gr	ains. ² Locat	ion: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to a	II LRRs, unless othe	rwise not	ed.)			r Problematic Hydric Soils³:
Histosol (A1)	Sandy	Gleyed Ma	atrix (S4)		1 cm Mud	ck (A9) (LRR I, J)
Histic Epipedon (A2)		Redox (S5				airie Redox (A16) (LRR F, G, H)
Black Histic (A3)		d Matrix (S				face (S7) (LRR G)
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR F)		Mucky Mir Gleyed Ma				ns Depressions (F16)
1 cm Muck (A9) (LRR F, G, H)		ed Matrix (l				H outside of MLRA 72 & 73) Vertic (F18)
Depleted Below Dark Surface (A11)	✓ Redox					ent Material (TF2)
Thick Dark Surface (A12)		ed Dark Su				llow Dark Surface (TF12)
Sandy Mucky Mineral (S1)		Depressio			Other (Ex	plain in Remarks)
2.5 cm Mucky Peat or Peat (S2) (LRF	16)		hydrophytic vegetation and			
5 cm Mucky Peat or Peat (S3) (LRR F	(ML	.RA 72 & 1	73 of LRR	H)		ydrology must be present,
Restrictive Layer (if present):					uniess di	sturbed or problematic.
_						
Type: Depth (inches):					U. dela Cali Da	
	<u> </u>				Hydric Soil Pr	esent? Yes V No
Remarks: Hydric soil criterion is met.						
Tryanc son chienon is met.						
HYDROLOGY						
Wetland Hydrology Indicators:	·					
Primary Indicators (minimum of one requir	ed; check all that app	ly)			Secondary	Indicators (minimum of two required)
Surface Water (A1)	Salt Crust	(B11)			Surface	e Soil Cracks (B6)
High Water Table (A2)	Aquatic In	vertebrate	s (B13)		✓ Sparse	ly Vegetated Concave Surface (B8)
Saturation (A3)	Hydrogen	Sulfide Od	dor (C1)			ge Patterns (B10)
Water Marks (B1)	Dry-Seaso	on Water T	Table (C2)		Oxidize	ed Rhizospheres on Living Roots (C3)
Sediment Deposits (B2)	Oxidized I	Rhizosphe	res on Livi	ng Roots ((C3) (whe	re tilled)
Drift Deposits (B3)	(where	not tilled)			Crayfis	h Burrows (C8)
Algal Mat or Crust (B4)	Presence		•)		tion Visible on Aerial Imagery (C9)
Iron Deposits (B5)		Surface (✓ Geomo	orphic Position (D2)
Inundation Visible on Aerial Imagery (37) Other (Ex	plain in Re	marks)			eutral Test (D5)
Water-Stained Leaves (B9)					Frost-H	leave Hummocks (D7) (LRR F)
Field Observations:	,					
	No ✓ Depth (in					
	No ✓ Depth (in			1		
	No 🗹 Depth (in	ches):		_ Wetla	and Hydrology P	resent? Yes ✓ No
(includes capillary fringe) Describe Recorded Data (stream gauge, n	onitoring well aerial	nhotoe pr	evious iner	nectione) i	if available:	
Describe Recorded Data (alream gauge, II	iomoning well, actial	priotos, pri	CAIONS IIIS	occiona), i	ii avallable.	
Remarks:						
Swale in floodplain, Zone A. Wetland	hydrology criterion	is not mo	t Spares	aly Vocati	ated Concove S	Surface (B8) was within the access
but not within the five foot her stratum	plot.	is not nie	t. Opaist	ory vegeti	ateu Concave S	odinace (Do) was within the swale,
	•					

Project/Site: 130 Environmental Park			Cifv/Co	untv: Lockha	rt/Caldwell	Sampling Date: _06/24/2013
Applicant/Owner: 130 Environmental I						Sampling Point: T16-DP4
Investigator(s): Troegle, Josh & Boe,						· Camping Cont.
Landform (hillslope, terrace, etc.): Depres		•				ve slapa (9/1): 2
Subregion (LRR): <u>J - Southwestern Pr</u>						
Soil Map Unit Name: Ts - Tinn soils, fre						cation: None available
•						
Are climatic / hydrologic conditions on the s					•	
Are Vegetation, Soil, or Hyd						
Are Vegetation, Soil, or Hyd	Irology	naturally pro	blemat	ic? (If ne	eeded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attack	ch site map	showing	samı	pling point l	ocations, transects	s, important features, etc.
Hydrophytic Vegetation Present?	Yes_ √ N	40				
	Yes ✓ N		1	Is the Sampled		
i e	Yes ✓ N			within a Wetla	na? Yes <u>*</u>	No
Remarks:						-
Emergent wetland in a backwater in ri	parian area ne	ear channe	el.			
VEGETATION – Use scientific na	mes of nlar	nte				
	.	Absolute	Domi	nant Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size: 30'	_)	% Cover		ies? Status	Number of Dominant S	
1					That Are OBL, FACW,	or FAC
2					(excluding FAC-):	<u>3</u> (A)
3					Total Number of Domi	nant
4					Species Across All Stra	ata: <u>3</u> (B)
Sapling/Shrub Stratum (Plot size: 15'	1		= Tota	l Cover	Percent of Dominant S	' 100
	/	5	Yes	FAC	That Are OBL, FACW,	or FAC: 100 (A/B)
2.					Prevalence Index wo	rksheet:
3.						Multiply by:
4.		_			1	x 1 =
5					1	x 2 =
5'		5	= Tota	l Cover		x 3 =
Herb Stratum (Plot size: 5' 1. Eleocharis palustris	_)	50	Yes	OBL	UPL species	x 4 =
2. Persicaria pensylvanicum		50	Yes	FACW		(A) (B)
3. Iva annua		5	No	FAC		
4		_ —			Prevalence Index	c = B/A =
5					Hydrophytic Vegetati	
6.						Hydrophytic Vegetation
7.					2 - Dominance Te	
8					3 - Prevalence Ind	
9					data in Remark	Adaptations ¹ (Provide supporting is or on a separate sheet)
10						ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30'	,	105	= Tota	l Cover	1 Indicators of hydric so	il and wetland hydrology must
1)				be present, unless dist	
2					Hydrophytic	
2.					Vegetation	
% Bare Ground in Herb Stratum 0					Present? Ye	es No
Remarks:						
Emergent wetland dominated by spike	erush and sma	artweed. H	lydrop	nytic vegetation	on criterion is met.	
1						

Sampling Point: T16-DP4 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Color (moist) Depth Redox Features % Color (moist) (inches) ___% Type¹ Loc² <u>Texture</u> 0-12 10 YR 2/1 85 5 YR 6/4 15 Clay

Type: C=Concentration, D=Depletion, RM=Redu Hydric Soil Indicators: (Applicable to all LRRs		Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR F) 1 cm Muck (A9) (LRR F, G, H) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) 5 cm Mucky Peat or Peat (S3) (LRR F)	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) High Plains Depressions (F16) (MLRA 72 & 73 of LRR H)	1 cm Muck (A9) (LRR I, J) Coast Prairie Redox (A16) (LRR F, G, H) Dark Surface (S7) (LRR G) High Plains Depressions (F16)
Restrictive Layer (if present): Type: Hardpan Depth (inches): 12		Hydric Soil Present? Yes ✓ No

HYDROLOGY

Wetland Hydrology Indica	tors:				
Primary Indicators (minimun	n of one required; cl	neck all that apply)	Secondary Indicators (minimum of two required)		
Surface Water (A1)		Salt Crust (B11)	Surface Soil Cracks (B6)		
High Water Table (A2)		✓ Sparsely Vegetated Concave Surface (B8)			
Saturation (A3)		Drainage Patterns (B10)			
Water Marks (B1)		Oxidized Rhizospheres on Living Roots (C3)			
Sediment Deposits (B2))	g Roots (C3) (where tilled)			
Drift Deposits (B3)		(where not tilled)	Crayfish Burrows (C8)		
Algal Mat or Crust (B4)		Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)		
Iron Deposits (B5)		✓ Geomorphic Position (D2)			
Inundation Visible on A	erial Imagery (B7)	FAC-Neutral Test (D5)			
Water-Stained Leaves (B9)		Frost-Heave Hummocks (D7) (LRR F)		
Field Observations:					
Surface Water Present?	Yes No	✓ Depth (inches):			
Water Table Present?	Yes No.	✓ Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland Hydrology Present? Yes ✓ No		
Describe Recorded Data (st	ream gauge, monito	oring well, aerial photos, previous inspe	ections), if available:		
Remarks:					
Backwater slought in ripa	rian area; within f	loodplain Zone A. Wetland hydrol	ogy criterion is not met.		

Project/Site: 130 Environmental Park		City/C	_{ounty:} Lockh	art/Caldwell	_ Sampling Date: 06/24/2013
Applicant/Owner: 130 Environmental Park,					Sampling Point: T16-DP5
Investigator(s): Troegle, Josh & Boe, Brian	n, Township, F		* 1 0 <u></u>		
					Slope (%): 4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: W - Water					ication: None available
Are climatic / hydrologic conditions on the site typic					
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				needed, explain any answ	·
SUMMARY OF FINDINGS – Attach sit					,
Hydrophytic Vegetation Present? Yes	No <u></u> ✓				
	No ✓		Is the Sample		No <u>√</u>
Wetland Hydrology Present? Yes	No <u></u> ✓		within a Wetl	and? Yes	No <u>*</u>
Remarks:					
Upland point between depression and chan	nel.				
VEGETATION - He a significant	-£I4-				
VEGETATION – Use scientific names				15 7 4	
Tree Stratum (Plot size: 30'	Absolute % Cover		inant Indicator cies? <u>Status</u>		
1				 Number of Dominant S That Are OBL, FACW 	or FAC
2.				(excluding FAC-):	<u>2</u> (A)
3				Total Number of Domi	
4				Species Across All Str	rata: <u>5</u> (B)
15!		= Tota	al Cover	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 15' 1. Melia azedarach) 15	Yes	FACU	That Are OBL, FACW	, or FAC: 40 (A/B)
2. Celtis laevigata		Yes	FAC	Prevalence Index wo	rksheet:
3				Total % Cover of:	Multiply by:
4.				OBL species	x 1 =
5.					x 2 =
-	20	= Tota	al Cover		x 3 =
Herb Stratum (Plot size: 5'	15	V	EVO		x 4 =
1. Iva annua 2. Vernonia baldwinii	$\frac{15}{20}$	Yes Yes	FAC FACU	}	x 5 =
				_ Column Totals:	(A) (B)
3				Prevalence Inde	x = B/A =
4				Hydrophytic Vegetat	ion Indicators:
5				1 - Rapid Test for	Hydrophytic Vegetation
6				2 - Dominance Te	
8				3 - Prevalence Inc	
9.				4 - Morphological	Adaptations ¹ (Provide supporting ks or on a separate sheet)
10					ophytic Vegetation¹ (Explain)
	35	= Tota	al Cover		
Woody Vine Stratum (Plot size: 30'	_) 60	Yes	FACU	'Indicators of hydric so be present, unless dis	oil and wetland hydrology must turbed or problematic
		105	<u>FACO</u>		
2	60		-l Causes	_ Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 65		_ 10K	al Cover		es No <u> </u>
Remarks:					
Hydrophytic vegetation criterion is not met.					

Sampling Point: T16-DP5

0	\sim	ı	
a	u	П	_

Profile Desc	cription: (Describe	to the depth ne	eded to docu	ment the i	indicator	or confirm	the absence of	indicators.)
Depth (inches)	Matrix Color (moist)		Redo	x Feature	s Type ¹	1002	Touture	Domarka
0-16	10 YR 3/1	<u>%</u> <u>_</u> 100	OIUI (IIIOISI)			Loc	Texture	Remarks_
	10 11(0/1							
			<u>-</u>					
				` '				
	·							
	-		·					
	oncentration, D=De Indicators: (Appli					d Sand Gr		on: PL=Pore Lining, M=Matrix. r Problematic Hydric Soils ³ :
1 -		cable to all LKKs	-		•			•
Histosol	oipedon (A2)			Gleyed Ma Redox (S5				ck (A9) (LRR I, J) airie Redox (A16) (LRR F, G, H)
	stic (A3)		-	d Matrix (S	-			face (S7) (LRR G)
	en Sulfide (A4)			Mucky Mir	-			ns Depressions (F16)
	d Layers (A5) (LRR	F)		Gleyed Ma				H outside of MLRA 72 & 73)
	ıck (A9) (LRR F, G ,	•		d Matrix (I	,		Reduced	Vertic (F18)
	d Below Dark Surfa	ce (A11)		Dark Surfa				nt Material (TF2)
	ark Surface (A12) lucky Mineral (S1)			d Dark Su				llow Dark Surface (TF12)
	lucky Milleral (ST) Jucky Peat or Peat	(\$2) (I RR G H)	High Pl	Depression		16)		plain in Remarks) hydrophytic vegetation and
	icky Peat or Peat (S			RA 72 & 7				ydrology must be present,
	,	,	,			,		sturbed or problematic.
Restrictive I	ayer (if present):							
Type:								
Depth (ind	ches):						Hydric Soil Pr	esent? Yes No <u>√</u>
Remarks:				-			<u>'</u>	
No hydric so	oil indicators obse	rved.						
HYDROLO	GY							
	rology Indicators							
_	ators (minimum of		ck all that appl	v)			Secondary	Indicators (minimum of two required)
	Water (A1)		Salt Crust					e Soil Cracks (B6)
	ter Table (A2)		Aquatic In	. ,	s (B13)			ly Vegetated Concave Surface (B8)
Saturatio			Hydrogen					ge Patterns (B10)
Water M	arks (B1)		Dry-Seaso	n Water T	able (C2)		Oxidize	ed Rhizospheres on Living Roots (C3)
Sedimen	t Deposits (B2)		Oxidized F	Rhizosphei	res on Livi	ng Roots (C3) (whe	re tilled)
Drift Dep	osits (B3)		(where i	not tilled)			Crayfis	h Burrows (C8)
Algal Ma	t or Crust (B4)		Presence	of Reduce	d Iron (C4)	Saturat	ion Visible on Aerial Imagery (C9)
Iron Dep	osits (B5)		Thin Muck	Surface (C7)		✓ Geomo	rphic Position (D2)
Inundatio	on Visible on Aerial	Imagery (B7)	Other (Exp	olain in Re	marks)		FAC-No	eutral Test (D5)
	ained Leaves (B9)						Frost-H	leave Hummocks (D7) (LRR F)
Field Observ								
Surface Water		′es No <u>√</u>						
Water Table		′es No <u>√</u>						
Saturation Pr		′es No <u>√</u>	Depth (in	ches):		_ Wetla	ınd Hydrology P	resent? Yes No ✓
(includes cap	allary fringe) corded Data (stream	gauge monitori	ng well-aerial r	nhotos pre	evious inst	pections) i	f available	
200011201100	, , , , , , , , , , , , , , , , , , ,	· gaage, memen	ng won, concar	orrotoo, pri	svious inop	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a validado.	
Remarks:		.						
	on Floodplain Zo	one A; however	no other hvd	rology in	dicators v	vere obse	erved. Wetland	hydrology criterion is not met.
1				55				y soly solven to not mot
							·	

					rt/Caldwell_		
Applicant/Owner: 130 Environmental Park, LLC					State: TX	Sampling Point: T16	3-DP6
Investigator(s): Troegle, Josh & Boe, Brian		Section	n, To	wnship, Ra	nge: NA		
Landform (hillslope, terrace, etc.): Lake edge		Local	relief	(concave,	convex, noле): None	Slope (%	%): <u>2</u>
Subregion (LRR): J - Southwestern Prairies	Lat: 29.	.95			Long: -97.65	Datum:	NAD 83
Soil Map Unit Name: FeE - Fett gravelly soils, 1-12					NWI classific		
Are climatic / hydrologic conditions on the site typical for t							
Are Vegetation, Soil, or Hydrology							No
Are Vegetation, Soil, or Hydrology					eded, explain any answe		140
SUMMARY OF FINDINGS – Attach site ma				-	•	,	res, etc.
Hydrophytic Vegetation Present? Yes	No √						
Hydric Soil Present? Yes				e Sampled		No.✓	
Wetland Hydrology Present? Yes		İ	With	in a Wetlar	na? res	No <u>*</u>	
Remarks:					_		
Upland grass meadow fringe of lake, on west side	,						
VEGETATION – Use scientific names of pla	nte						
VEGETATION – Ose scientific frames of pia		Daw		lu din atau	Deminence Testerral		
Tree Stratum (Plot size: 30'	Absolute <u>% Cover</u>			Indicator Status	Dominance Test work Number of Dominant S		
1.					That Are OBL, FACW,		
2					(excluding FAC-):	1	(A)
3					Total Number of Domin	ant _	
4.					Species Across All Stra	ta: <u>3</u>	(B)
151		= Tota	al Cov	/er	Percent of Dominant Sp	Decies _	
Sapling/Shrub Stratum (Plot size: 15'	5	Yes		FACU	That Are OBL, FACW,	or FAC: 33	(A/B)
1. Prosopis glandulosa 2. Ulmus crassifolia		Yes		FAC	Prevalence Index wor	 ksheet:	
					Total % Cover of:	Multiply by:	
3					OBL species		
4					FACW species		
0	7	= Tot:	al Cov	/er	FAC species	x 3 =	
Herb Stratum (Plot size: 5'		100	u, 001		FACU species	x 4 =	
1. Buchloe dactyloides	80	Yes			UPL species	x 5 =	
2. Cynodon dactylon		No		FACU	Column Totals:	(A)	(B)
3. Solanum elaeagnifolium	_ 5	No		UPL	Prevalence Index	= B/A =	
4					Hydrophytic Vegetation		
5					1 - Rapid Test for H		
6					2 - Dominance Tes		
7					3 - Prevalence Inde		
8					4 - Morphological A		upportina
9					data in Remarks	s or on a separate shee	et)
10		= Tota			Problematic Hydro	ohytic Vegetation ¹ (Exp	olain)
Woody Vine Stratum (Plot size: 30')					¹ Indicators of hydric soil be present, unless distu	and wetland hydrologor orbed or problematic.	y must
2.					Hydrophytic		
% Bare Ground in Herb Stratum 5				/er	Vegetation	s No_ <u>√</u>	_
Remarks:					. l		-
Upland herbaceous area dominated by buffalo gra	ss. Hydropl	hytic	veget	ation crite	rion is not met.		

SOIL Sampling Point: T16-DP6

Profile Desi	cription: (Describ	e to the depth n	eeded to docun	nent the i	ndicator	or confirn	n the absence of	indicators.)
Depth	Matrix			x Features		. 2	- .	
(inches) 100	Color (moist) 10 YR 3/1		Color (moist)	%	Type ¹	Loc ²		Remarks
100	10 1K 3/1						Clay	
ļ								
			<u> </u>					
<u> </u>	-							
¹ Type: C=C	oncentration, D=D	enletion RM=Rec	Juced Matrix CS	=Covered	for Coate	d Sand G	rains ² Locati	on: PL=Pore Lining, M=Matrix.
	Indicators: (Appl					u Sanu Gi		r Problematic Hydric Soils ³ ;
Histosol				leyed Ma	•			ck (A9) (LRR I, J)
· —	pipedon (A2)			ledox (S5				airie Redox (A16) (LRR F, G, H)
	istic (A3)			Matrix (S				ace (S7) (LRR G)
	en Sulfide (A4)			lucky Min				ns Depressions (F16)
	d Layers (A5) (LRF	RF)		eleyed Ma				H outside of MLRA 72 & 73)
1 cm Mu	ick (A9) (LRR F, G	i, H)	Depleted	d Matrix (F	-3)		Reduced	Vertic (F18)
Depleted	d Below Dark Surfa	ace (A11)		ark Surfa	. ,		Red Pare	nt Material (TF2)
·	ark Surface (A12)				rface (F7)			llow Dark Surface (TF12)
	lucky Mineral (S1)			epression				plain in Remarks)
_	Mucky Peat or Pea			-		*		hydrophytic vegetation and
5 cm ML	ıcky Peat or Peat (S3) (LRR F)	(ML)	KA 72 & 7	3 of LRR	H)		ydrology must be present,
Poetrictivo I	Layer (if present)						uniess dis	sturbed or problematic.
l .	-t						M. J. C. 2. 2.	
	ches):		·				Hydric Soil Pr	esent? Yes No ✓
Remarks:								
No nyaric so	oil indicators obs	ervea.						
HYDROLO	GY							
Wetland Hyd	drology Indicator	s:						
1	cators (minimum of		eck all that apply	')			Secondary	Indicators (minimum of two required)
Surface	Water (A1)		Salt Crust (B11)				Soil Cracks (B6)
_	iter Table (A2)		Aquatic Inv	ertebrates	s (B13)			ly Vegetated Concave Surface (B8)
Saturatio			Hydrogen S					ge Patterns (B10)
1 *	arks (B1)		Dry-Seasor					ed Rhizospheres on Living Roots (C3
Sedimer	nt Deposits (B2)		Oxidized R		. ,	ng Roots i		re tilled)
	oosits (B3)		(where n					h Burrows (C8)
Algal Ma	it or Crust (B4)		Presence o	f Reduce	d Iron (C4)		ion Visible on Aerial Imagery (C9)
	osits (B5)		Thin Muck	Surface (0	C7)	•		orphic Position (D2)
Inundation	on Visible on Aeria	I Imagery (B7)	Other (Expl					eutral Test (D5)
	tained Leaves (B9				,			leave Hummocks (D7) (LRR F)
Field Observ	vations:	<u> </u>						() (=,
Surface Wate	er Present?	Yes No _	Depth (inc	hes):				
Water Table		Yes No _						
Saturation Pr		Yes No _				1	and Hydrology P	resent? Yes No _
(includes cap	illary fringe)							resent? lesNO_V
	corded Data (strea	m gauge, monitor	ing well, aerial p	hotos, pre	evious insp	pections),	if available:	
Remarks:	·							· · · · · · · · · · · · · · · · · · ·
Data point is	s on Floodplain Z	one A; howeve	r no other hydr	ology ind	dicators v	were obs	erved. Wetland	hydrology criterion is not met.
	•		-					2.

Comparison 130 Environmental Park LC County Lock-art/Coldwell Sampling pale: 09/25/2013 Sampling pa	Project/Site: 130 Environmental P	ark ark		City/Cr	nunty: Lockh	nart/Caldwell	Sampling Date:	06/26/2013
Section, Township, Range; NA Section, Township, Range; NA Stoppe (%); 3 Section, Township, Range; NA Stoppe (%); 3								
Local relief (concave, convex, none), None Stope (%), 3							. Oampling rome.	
Description LRR : J								(01) 3
Tree Stratum (Plot size: 30'								
ver utimatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No (if no, explain in Remarks.) ver Vegetation Soil or Hydrology significantly disturbed?								
Very Vegetation	'							aliable
Summark Soil	Are climatic / hydrologic conditions on the	he site typical for	this time of yea	ar? Ye			· ·	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No / Wetland Hydrology Present? Yes No / Wetland Hydrology Present? Yes No / Wetland Hydrology Present? Yes No / Wetland Hydrology Present? Yes No / Wetland Hydrology Present? Yes No / Wetland Hydrology Present? Yes No / Wetland Hydrology Present? Yes No / Wetland Hydrology Present? Yes No / Wetland Hydrology Present? Yes No / Wetland Hydrology Present? Yes No / Wetland Hydrology Present? Yes No / Wetland Hydrology Present? Yes No / Wetland Hydrology Present? Yes No / Wetland? Yes No / Wetlan	Are Vegetation, Soil, or	Hydrology	_ significantly	disturb	oed? Ar	re "Normal Circumstances"	present? Yes 🗹	No
Hydrophytic Vegetation Present? Yes No ✓ Is the Sampled Area within a Wetland? Yes No ✓ Wetland Hydrology Present? Yes No ✓ Within a Wetland? Yes No ✓ Within a Wetland? Yes No ✓ Wetland Hydrology Present? Yes No ✓ Within a Wetland? Yes No ✓ Within a Wetland? Yes No ✓ Wetland Hydrology Present? No ✓ Wetland Hydrology Present? Status: Common	Are Vegetation, Soil, or	Hydrology	_ naturally pro	blema	tic? (If	needed, explain any answe	ers in Remarks.)	
Hydric Soil Present? Yes No ✓ within a Welland? Yes No ✓ within a Welland? Yes No ✓ Westland Hydrology Present? Yes No ✓ within a Welland? Yes No ✓ No ✓ Westland Hydrology Present? Yes No ✓ Within a Welland? Yes No ✓ No ✓ No ✓ No ✓ No ✓ No ✓ No ✓ No	SUMMARY OF FINDINGS - A	ttach site ma	p showing	sam	pling poin	t locations, transects	s, important fe	eatures, etc.
Hydric Soil Present? Yes No ✓ within a Wetland? Yes No ✓ within a Wetland? Yes No ✓ Wetland Hydrology Present? Yes No ✓ within a Wetland? Yes No ✓ No ✓ Within a Wetland? Yes No ✓ No ✓ No ✓ No ✓ No ✓ No ✓ No ✓ No	Hydrophytic Vegetation Present?	Yes	No. ✓					
Remarks: Open grassland in spillway east of lake.	*	Yes	No ✓		•		/	
Absolute Dominant Indicator Species Status Species Species Species Status Species	Wetland Hydrology Present?	Yes	No ✓		within a wet	land? Yes	No <u>*</u>	-
Absolute Dominant Indicator Species 30° Absolute Species Status Number of Dominant Species That Are OBL, FACW, or FAC Q (excluding FAC−): Absolute Species Status Species Archive Species Archive According FAC−): Absolute According FAC−): Absolute According FAC−): According FAC−2: According	Remarks:							
Absolute	Open grassland in spillway east of	lake.						
Absolute								
Absolute	VEGETATION HER STOCKE							<u> </u>
Tree Stratum (Plot size: 30'	VEGETATION – Use scientific	names of pi		Domi	inant Indiaata	Dominance Test west	/phosts	
1	Tree Stratum (Plot size: 30')	% Cover					
2.							or FAC	
Species Across All Strata: 2 (B)	2					(excluding FAC-):	0	(A)
Sapling/Shrub Stratum (Plot size: 15'	3					Total Number of Domir		
That Are OBL, FACW, or FAC: 0 (A/B)	4	<u> </u>				Species Across All Stra	ata: <u>2</u>	(B)
1	0 1 10 10 1 10 1 10	ξ',		= Tota	al Cover			
2. Prevalence Index worksheet: 3. 4. Separe Stratum (Plot size: 5!) OBL species x 2 = FACW species x 2 = FACW species x 3 = SACW species x 3 = SACW species x 4 = SACW speci						That Are OBL, FACW,	or FAC: U	(A/B)
10tal % Cover of: Multiply by:						Prevalence Index wo	rksheet:	
4						Total % Cover of:	Multipl	y by:
FACW species						OBL species	x1=	
Herb Stratum (Plot size: 5') 1, Buchloe dactyloides 60 Yes UPL UPL species x 4 =						FACW species	x 2 =	
Herb Stratum (Plot size: 5'					al Cover	FAC species	x 3 =	
2. Cynodon dactylon 40 Yes FACU Column Totals:(A)(B) Prevalence Index = B/A =)						
3.						_		
4	2. Cynodon dactylon			Yes	FACU	Column Totals:	(A)	(B)
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size: 30¹ 1	3					Prevalence Index	ς = Β/A =	
6								
7								ation
8								
9						— 3 - Prevalence Ind	ex is ≤3.0 ¹	
10 Problematic Hydrophytic Vegetation¹ (Explain) 100 = Total Cover 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2 = Total Cover 8 Bare Ground in Herb Stratum 0						— 4 - Morphological .	Adaptations¹ (Prov	ride supporting
Woody Vine Stratum (Plot size: 30') 1								•
Woody Vine Stratum (Plot size: 30¹) 1	10.		400	- Tota	ol Cover	Problematic Hydro	phytic Vegetation¹	(Explain)
1	Woody Vine Stratum (Plot size: 30')		- 1018	al Covel			
2 = Total Cover						be present, unless dist	urbed or problema	tic.
% Bare Ground in Herb Stratum 0 Present? Yes No ✓								
Remarks:	0			= Tota	al Cover		ne No.√	•
						rieseller 16		
opialis grassians deminiated by bundle grass. Trydrophytic vegetation ontenent is not met.		iffalo orace 🖳	vdrophytic ve	getati	on criterion i	is not met		
	Opiana grassiana dominated by bu	analo grass. H	yaropriyilo ve	golali	on ontenon	io not mot.		

US Army Corps of Engineers

SOIL Sampling Point: T16-DP7

Profile Desc	cription: (Describ	e to the depth ne	eded to docui	ment the i	ndicator	or confirn	n the absence of i	indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)		olor (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10 YR 3/1						Clay	
	·							
¹Type: C=C	oncentration D=D	epletion, RM=Redu	rced Matrix CS	= ——— S≃Covered	 Lor Coate	d Sand Gr	rains ² l ocatio	on: PL=Pore Lining, M=Matrix.
		licable to all LRRs				<u> </u>		Problematic Hydric Soils ³ :
Histosol	-			Gleyed Ma				k (A9) (LRR I, J)
I —	pipedon (A2)			Redox (S5)	. ,			irie Redox (A16) (LRR F, G, H)
Black Hi	istic (A3)		Stripped	d Matrix (S	6)			ace (S7) (LRR G)
	en Sulfide (A4)			Mucky Min			High Plain	s Depressions (F16)
	d Layers (A5) (LRI			Gleyed Ma	, ,		,	l outside of MLRA 72 & 73)
1	ick (A9) (LRR F, G			d Matrix (F				Vertic (F18)
	d Below Dark Surfa ark Surface (A12)	ace (A11)		Dark Surfa d Dark Sur				nt Material (TF2)
1 —	fik Surface (A.12) Mucky Mineral (S1)	1		o Dark Sur Depression				low Dark Surface (TF12) Dain in Remarks)
	Mucky Peat or Pea			ains Depre		16)		hydrophytic vegetation and
1	icky Peat or Peat (RA 72 & 7				drology must be present,
	-					•	_	turbed or problematic.
	Layer (if present)	:						
Type: Cla	зурап							
Depth (ind	ches): <u>6</u>						Hydric Soil Pre	esent? Yes No √
Remarks:								
No hydric so	oil indicators obs	erved.						
	CV	<u> </u>						-
HYDROLO								
	drology Indicator							
		f one required; che						ndicators (minimum of two required)
	Water (A1)	-	Salt Crust	` /				Soil Cracks (B6)
	iter Table (A2)		Aquatic In					y Vegetated Concave Surface (B8)
Saturation	` '	-	Hydrogen				-	e Patterns (B10)
	arks (B1)	-	Dry-Seaso			. 5. (d Rhizospheres on Living Roots (C3)
	nt Deposits (B2)	-	Oxidized F		es on Livi	ng Roots (re tilled)
	oosits (B3)			not tilled)	d Inon /C4	`		Burrows (C8)
	it or Crust (B4)	-	Presence		•)		on Visible on Aerial Imagery (C9)
	osits (B5) on Visible on Asrie	l Imagany (R7)	Thin Muck					phic Position (D2)
	on Visible on Aería		Other (Exp	nam m Ker	narks)			eutral Test (D5)
Field Observ	tained Leaves (B9)					FIOSI-FIE	eave Hummocks (D7) (LRR F)
		Voc. No.	Dooth (in	shoo):				
Surface Wate		Yes No ✓						
Water Table		Yes No <u>√</u>						
Saturation Pr (includes cap		Yes No <u>√</u>	Depth (inc	cnes):		_ Wetla	and Hydrology Pr	resent? Yes No
Describe Red	corded Data (strea	m gauge, monitorir	ng well, aerial p	hotos, pre	vious insp	pections),	if available:	
	,		,			,,		
Remarks:								· · · · · · · · · · · · · · · · · · ·
	on Floodplain 2	Zone A; however	no other hvd	roloav ind	dicators v	vere obse	erved, Wetland	hydrology criterion is not met.
Parris (4								,

Project/Site: 130 Environmental Pa	ırk		City/Co	ounty: L	.ockhai	rt/Caldwell	Sampling Date: 06/26/2013
Applicant/Owner: 130 Environmenta							Sampling Point: T16-DP8
Investigator(s): Troegle, Josh & Boo							
Landform (hillstope, terrace, etc.): Shor							e Slope (%): 0
Subregion (LRR): J - Southwestern							
Soil Map Unit Name: W - Water							ation: None available
Are climatic / hydrologic conditions on the							
							oresent? Yes ✓ No
Are Vegetation, Soil, or F							
Are Vegetation, Soil, or F SUMMARY OF FINDINGS - At						eded, explain any answe	,
Hydrophytic Vegetation Present?	Yes <u>√</u>	No					
Hydric Soil Present?	Yes 🗸	No		Is the S	•		No
Wetland Hydrology Present?	Yes <u></u> ✓			WILIIII	a Wetlar	iur res <u>.•</u>	NO
Remarks:							
Emergent wetland along shoreline,	eastern side of	lake.					
VEGETATION – Use scientific	names of nis	nte					
VEGETATION - Ose scientific	names of pia	Absolute	Dom	ninant Inc	dioator	Dominance Test work	shoots
Tree Stratum (Plot size: 30')	% Cover				Number of Dominant St	
1						That Are OBL, FACW, of	
2						(excluding FAC-):	<u>1</u> (A)
3						Total Number of Domin	
4						Species Across All Stra	ta: 1 (B)
Sapling/Shrub Straturn (Plot size: 15'	1		= Tota	al Cover		Percent of Dominant Sp	
1. Sesbania drummondii	<i></i>	2		F	ACW	That Are OBL, FACW, o	or FAC: 100 (A/B)
2						Prevalence Index work	ksheet:
3						1	Multiply by:
4.						1	x 1 =
5						1	x 2 =
51		0	= Tota	al Cover			x 3 =
Herb Stratum (Plot size: 5¹ 1. Eleocharis palustris	}	80	Yes	0	BL	UPL species	x 4 =
2 Xanthium strumarium		10	No		AC AC		(A) (B)
3. Persicaria pensylvanicum		15	No		ACW	Column Totals.	(A) (B)
4						Prevalence Index	= B/A =
5.						Hydrophytic Vegetation	
6						1 - Rapid Test for H	· · · · ·
7						✓ 2 - Dominance Tes	
8.						3 - Prevalence Inde	
9						data in Remarks	daptations¹ (Provide supporting s or on a separate sheet)
10							phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30'	١	105	= Tota	al Cover		!	and wetland hydrology must
1						be present, unless distu	rand wettand hydrology must irbed or problematic.
2.						Hydrophytic	
						Vegetation	
% Bare Ground in Herb Stratum $\underline{0}$						Present? Yes	s <u>√</u> No
Remarks:							
Emergent wetland along shoreline,	dominated by a	spikerush. F	Hydrop	phytic v	egetatio	on criterion is not met.	
US Army Corps of Engineers							Great Plains – Version 2.0

Sampling Point: T16-DP8

c	$\boldsymbol{\cap}$	ı	
J	v	Į.	_

Depth	cription: (Describ Matrix	e to the de	•	cument the indicat dox Features	or or confirm the abse	nce of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u> % Тура</u>	e ¹ Loc ² Texture	Remarks
0-3	10 YR 2/1	90	5 YR 5/8	10	Clay	_
3-7	10 YR 3/1	97	5 YR 5/8	3		
7-10	10 YR 4/1	97	7.5 YR 5/8	3		
		_				
			·			
		_				
			-			
			/=Reduced Matrix,		ated Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
		icable to al	I LRRs, unless oth			ors for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)			y Gleyed Matrix (S4		m Muck (A9) (LRR I, J)
1	istic (A3)			y Redox (S5) ed Matrix (S6)		ast Prairie Redox (A16) (LRR F, G, H) rk Surface (S7) (LRR G)
	en Sulfide (A4)			y Mucky Mineral (F		th Plains Depressions (F16)
	d Layers (A5) (LRR	k F)		y Gleyed Matrix (F:		(LRR H outside of MLRA 72 & 73)
	uck (A9) (LRR F, G			ted Matrix (F3)		duced Vertic (F18)
. —	d Below Dark Surfa	ice (A11)		x Dark Surface (F6	· —	d Parent Material (TF2)
	ark Surface (A12) Jucky Mineral (S1)			ited Dark Surface (I x Depressions (F8)	,	ry Shallow Dark Surface (TF12)
	Mucky Peat or Peal			x Depressions (F6) Plains Depressions		ner (Explain in Remarks) ors of hydrophytic vegetation and
	ıcky Peat or Peat (ILRA 72 & 73 of L		land hydrology must be present,
						ess disturbed or problematic.
Restrictive	Layer (if present):					
" _		-	·			
Depth (in	ches):				Hydric S	Soil Present? Yes ✓ No
Remarks:						
Hydric soil o	criterion is met.					
HYDROLO	GY					
Wetland Hy	drology Indicators	3 ;				
_			ed; check all that ap	ply)	Seco	ndary Indicators (minimum of two required)
Surface	Water (A1)		Salt Cru	st (B11)		Surface Soil Cracks (B6)
	iter Table (A2)		_	invertebrates (B13)		Sparsely Vegetated Concave Surface (B8)
Saturation	on (A3)		Hydroge	n Sulfide Odor (C1		Orainage Patterns (B10)
Water M	arks (B1)		Dry-Sea	son Water Table (C	(2)	Oxidized Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits (B2)		✓ Oxidized	Rhizospheres on l	Living Roots (C3)	(where tilled)
	oosits (B3)			e not tilled)		Crayfish Burrows (C8)
	nt or Crust (B4)			e of Reduced Iron (,	Saturation Visible on Aerial Imagery (C9)
	osits (B5)			ck Surface (C7)		Geomorphic Position (D2)
_	on Visible on Aerial		37) Other (E	xplain in Remarks)		FAC-Neutral Test (D5)
Field Obser	tained Leaves (B9)				<u> </u>	Frost-Heave Hummocks (D7) (LRR F)
Surface Water		Ver	No ✓ Depth (inchae):		
Water Table			No ✓ Depth (
Saturation P			No ✓ Depth (logy Present? Yes ✓ No
(includes cap	oillary fringe)	163	NO V Deptil (inches).	Wetland Hydrol	ogy Present? Tes No
Describe Re	corded Data (strear	m gauge, m	onitoring well, aeria	Il photos, previous	inspections), if available:	
Remarks:						
Shoreline of	large lake; flood	plain Zone	A. Wetland hyd	rology criterion is	met.	

Project/Site: 130 Environmental P	ark	1	Citv/C	county: I	Lockha	rt/Caldwell	Sampling Date	e: 06/26/20 1 3
Applicant/Owner: 130 Environment					State: TX Sampling Point: T16-DP9			
Investigator(s): Troegle, Josh & Bo								
Landform (hillslope, terrace, etc.): Dep							/e c	Slope (%): 0
Subregion (LRR): J - Southwestern								
Soil Map Unit Name: CrC2 - Crocke								
Are climatic / hydrologic conditions on the								availabio.
Are Vegetation, Soil, or	· ·					"Normal Circumstances"	-	√ No
Are Vegetation, Soil, or						eeded, explain any answe		
SUMMARY OF FINDINGS - A								
Hydrophytic Vegetation Present?	Yes V	No						
Hydric Soil Present?		No			Sampled			
Wetland Hydrology Present?	Yes 🗸	No		within	a Wetlai	nd? Yes <u>▼</u>	No	_
Remarks:				1				
Scrub-shrub fringe outside of emer	rgent wetland a	along eastern	shore	e of lak	e.			
							-	
VEGETATION – Use scientific	names of pl	ants.						
Tree Stratum (Plot size: 30'		Absolute		ninant Ir		Dominance Test work	(sheet:	
		<u>% Cover</u>			<u>Status</u>	Number of Dominant S That Are OBL, FACW,		
1						(excluding FAC+):	2	(A)
2 3						Total Number of Domir		
4.						Species Across All Stra	ant ata: <u>2</u>	(B)
	•		= Tota	tal Cover		Percent of Dominant S		,
Sapling/Shrub Stratum (Plot size: 15	<u>5'</u>					That Are OBL, FACW,		(A/B)
1. Sesbania drummondii			Yes	<u>F</u>	ACW	Prevalence Index wor	rkahooti	
2						Total % Cover of:		iply by:
3						OBL species		
4						FACW species		
5		=0				FAC species		
Herb Stratum (Plot size: 5 ^t)		- 100	tal Cover		FACU species		
1. Eleocharis engelmannii		80	Yes	F	ACW	1	x5=_	
2. Phyla lanceolata		20	No	F	ACW	Column Totals:		
3. Iva annua		2	No	<u>F</u>	AC	Dravatanas Inda	- D/A -	
4. Xanthium strumarium		2	No	F	AC	Prevalence Index Hydrophytic Vegetati		
5						1 - Rapid Test for		ototion
6						✓ 2 - Dominance Tes		etation
7						3 - Prevalence Ind		
8						4 - Morphological		ovide supporting
9						data in Remark	s or on a separa	te sheet)
10						Problematic Hydro	phytic Vegetatio	n¹ (Explain)
Woody Vine Stratum (Plot size: 30')	104	= Tota	tal Cover	•	¹ Indicators of hydric so be present, unless dist		
1						be present, diffess dist	Tiped of bloblets	matic.
2						Hydrophytic		
% Bare Ground in Herb Stratum 0			= Tota	tal Cover	-	Vegetation Present? Yes	es <u>√</u> No	
Remarks:								
Scrub-shrub wetland dominated by	/ Sesbania. Hy	drophytic ve	getati	ion crite	erion is r	not met.		

SOIL Sampling Point: T16-DP9a

Profile Desc	cription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confir	m the absence of in	dicators.)
Depth	Matrix			x Featur			_	
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹ _	_ Loc²	Texture	Remarks
0-3	10 YR 2/1	_ 90	5 YR 5/8	10	_ <u>C</u>	M/PL	Clay	
3-7	10 YR 3/1	97	5 YR 5/8	3	_ <u>C</u>	M/PL	<u> </u>	
7-10	10 YR 4/1	97	7.5 YR 5/8	3	С	М		
-							· — —	
			=Reduced Matrix, CS			ed Sand G	Grains. ² Location	PL=Pore Lining, M=Matrix.
*		cable to all	LRRs, unless other		•			roblematic Hydric Soils ³ :
Histosol	, ,				latrix (S4)			A9) (LRR I, J)
Black Hi	oipedon (A2)			Redox (S d Matrix (Coast Prairie	e Redox (A16) (LRR F, G, H)
	en Sulfide (A4)				ineral (F1)			Depressions (F16)
	d Layers (A5) (LRR	F)		-	latrix (F2)			outside of MLRA 72 & 73)
1 cm Mu	ick (A9) (LRR F, G ,	H)		d Matrix			Reduced Ve	
	d Below Dark Surfac	e (A11)	✓ Redox [Material (TF2)
_	ark Surface (A12)				urface (F7)	}		v Dark Surface (TF12)
. —	Aucky Mineral (S1) Aucky Peat or Peat	(S2) (L RR (Depressions		16)		iin in Remarks) drophytic vegetation and
	icky Peat or Peat (S				73 of LRR			ology must be present,
—		, ,	,			,		bed or problematic.
Restrictive I	ayer (if present):							
Type:								
Depth (inc	ches):						Hydric Soil Pres	ent? Yes <u>√</u> No
Remarks:			****				<u>. </u>	
Hydric soil o	riterion is met.							
HYDROLO	GY		·				• •	
	drology Indicators:	,					-	
1			d; check all that appl				Coppedantin	Gasta - (-:-:
		one r <u>equire</u>	Salt Crust					licators (minimum of two required)
	Water (A1) ter Table (A2)		Aquatic Inv	' '	ec (B13)			oil Cracks (B6) /egetated Concave Surface (B8)
Saturation			Hydrogen					Patterns (B10)
Water M	* *		Dry-Seaso				_	Rhizospheres on Living Roots (C3)
1 —	nt Deposits (B2)		✓ Oxidized F					
Drift Dep			(where r			-	, ,	turrows (C8)
Algal Ma	t or Crust (B4)		Presence	of Reduc	ed Iron (C4	1)		Visible on Aerial Imagery (C9)
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		✓ Geomorph	nic Position (D2)
Inundatio	on Visible on Aerial	lmagery (B	7) Other (Exp	lain in R	emarks)		✓ FAC-Neut	ral Test (D5)
Water-St	tained Leaves (B9)						Frost-Hea	ve Hummocks (D7) (LRR F)
Field Observ								
Surface Wate			No V Depth (inc					
Water Table			No 🗸 Depth (ind			I .		
Saturation Pr		'es	No ✓ Depth (ind	ches):		_ Wet	land Hydrology Pres	ent? Yes ✓ No
(includes cap Describe Red		gauge, mo	onitoring well, aerial p	ohotos, p	revious ins	pections).	, if available:	
		J J ,	,,				. =-	
Remarks:			·					
	cators observed.	Site on Fl	oodplain Zone A.	Wetland	l hydrolog	y criterio	on is met.	
			-		, ,	-		

Project/Site: 130 Environmental Park		City/Co	ountv:	Lockha	rt/Caldwell s	Sampling Date: (06/26/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX		
				vnship, Range: NA			
· · · · · · · · · · · · · · · · · · ·					convex, none): Concave	Slor	o (%)- 0
Subregion (LRR): J - Southwestern Prairies							
						·	
					NWI classificat		lianie
Are climatic / hydrologic conditions on the site typical for the	· ·						
Are Vegetation, Soil, or Hydrology					"Normal Circumstances" pre	-	No
Are Vegetation, Soil, or Hydrology	naturally pro	blema	itic?	(If n∈	eeded, explain any answers	in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling	point I	ocations, transects,	important fea	atures, etc.
Hydrophytic Vegetation Present? Yes ✓	No		1-4-4	Causala d	I A		
	No			Sampled a Wetlar		_ No	
	No		within	a wellai	nur res <u> </u>		
Remarks:							
Finger of land between south shore of lake and dar	m. Scrub-s	hrub v	wetland	1.			
VEGETATION - Use scientific names of pla	nts.						
201	Absolute			ndicator	Dominance Test works	neet:	
Tree Stratum (Plot size: 30')	<u>% Cover</u>			Status_	Number of Dominant Spe		
1.					That Are OBL, FACW, or (excluding FAC-):	FAC 4	/A)
2					(excluding FAC-).	,	(A)
3					Total Number of Dominar	4	
4			 _		Species Across All Strata	ı: <u>4</u>	(B)
Sapling/Shrub Stratum (Plot size: 15'		= Tota	al Covei	-	Percent of Dominant Spe		
Sapling/Shrub Stratum (Plot size: 15') 1. Sesbania drummondii	25	Yes	ī	FACW	That Are OBL, FACW, or	FAC: 100	(A/B)
2. Ulmus crassifolia	10	Yes		AC	Prevalence Index works	sheet:	
3. Fraxinus pennsylvanica	15	Yes		FAC	Total % Cover of:	Multiply	by:
			-		OBL species		
4					FACW species	x 2 =	
5	50	– Tota	al Cove		FAC species	x 3 =	
Herb Stratum (Plot size: 5')		- 100	ai Covei		FACU species	× 4 =	
1. Iva annua	80	Yes	F	AC		x 5 =	
2. Eleocharis engelmannii	20	No	I	ACW	Column Totals:		
3. Carex brevior	10	No	F	FAC			
4					Prevalence Index =		
5					Hydrophytic Vegetation		
6					1 - Rapid Test for Hy	, , .	tion
7					✓ 2 - Dominance Test i		
8					3 - Prevalence Index		
9.					4 - Morphological Ad data in Remarks o	aptations' (Provid	de supporting
10.					Problematic Hydroph	•	•
		= Tota	al Cove	r			,
Woody Vine Stratum (Plot size: 30')					¹ Indicators of hydric soil a be present, unless disturt	and wetland hydro	ology must
1		_			De present, unless disturt	—— problemati	C.
2					Hydrophytic		
% Bare Ground in Herb Stratum 20		= Tota	al Cove	r	Vegetation Present? Yes	✓ No	
Remarks:					·		
Scrub-shrub wetland dominated by sesbania. Hyd	rophytic veg	getatio	on crite	rion is n	net.		

Sampling Point: T16-DP9b

\sim	\sim	н	
•	c 1	ш	

Profile Desc	cription: (Describe	to the dep	oth needed to doc	ument the	indicator	or confir	m the absence of ind	icators.)	
Depth	<u>Matrix</u>			dox Feature					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc²	Texture	Remarks	
0-5	10 YR 2/1	_ 70	10 YR 4/6	_ 20	<u>C</u>	M/CL	Clay		
			2.5 Y 5/6	_ 10	- <u>c</u>	M		···	
5-12	10 YR 3/1	_ 55	10 YR 5/6	_ 40	_ <u>C</u>	M	Shaley clay		
			10 YR 7/1	5	_ <u>D</u>	М			
								· · · · · · · · · · · · · · · · · · ·	
			· -						
Type: C=Ci	oncentration, D=De	nletion RM	=Reduced Matrix (ed or Coate	d Sand G	trains 2t ocation:	PL=Pore Lining, M=Matrix.	
	Indicators: (Applie					d Gario C		oblematic Hydric Soils ³ :	
Histosol	(A1)		Sandy	Gleyed M	atrix (S4)			\9) (LRR I, J)	
	pipedon (A2)			Redox (S	. ,			Redox (A16) (LRR F, G, H)	
Black Hi			Stripp	ed Matrix (S6)		Dark Surface	(S7) (LRR G)	
	en Sulfide (A4)			y Mucky M				Pepressions (F16)	
l	d Layers (A5) (LRR			Gleyed M				utside of MLRA 72 & 73)	
	ick (A9) (LRR F, G,			ted Matrix			Reduced Ver	` ,	
	d Below Dark Surfac ark Surface (A12)	ce (ATT)	✓ Redox		ace (F6) urface (F7)			faterial (TF2) Dark Surface (TF12)	
	Mucky Mineral (S1)			Depression				n in Remarks)	
	Mucky Peat or Peat	(S2) (LRR				16)		rophytic vegetati o n and	
	icky Peat or Peat (S				73 of LRR		wetland hydrology must be present,		
								ped or problematic.	
	Layer (if present):								
Type: Cla									
Depth (inc	ches): 12						Hydric Soil Prese	nt? Yes <u>√</u> No	
Remarks:									
No hydric so	oil criterion is met.								
HYDROLO	GY							·	
	drology Indicators:	,							
-	cators (minimum of c		d: check all that an	alu)			Cocondon: Indi	cators (minimum of two required)	
	Water (A1)	nie iedniie	<u> </u>		_		"		
	iter Table (A2)			nvertebrate	oo /D13)			oil Cracks (B6)	
Saturatio			Aquatic i					egetated Concave Surface (B8) Patterns (B10)	
Water M	٠,				Table (C2)			hizospheres on Living Roots (C3)	
	nt Deposits (B2)		✓ Oxidized			na Roote		_ , ,	
Drift Dep				not tilled		ng Roots	` ,	urrows (C8)	
	it or Crust (B4)				, ed Iron (C4)		Visible on Aerial Imagery (C9)	
Iron Dep				k Surface		')	,	ic Position (D2)	
	on Visible on Aerial	lmadery (B					✓ FAC-Neutr	* *	
	tained Leaves (B9)	imagory (B	0.1101 (22	spiani iii ; s	omanio,			re Hummocks (D7) (LRR F)	
Field Observ								C Hammooks (D7) (EKKT)	
Surface Water		/es	No <u>✓</u> Depth (i	nches):					
Water Table			No <u>✓</u> Depth (i						
Saturation Pr			No <u>✓</u> Depth (i			- 1	and Hydrology Proc	ent? Yes_✓ No	
(includes cap	illary fringe)					_		ent: 169 <u>* _ NO </u>	
Describe Rec	corded Data (stream	n gauge, mo	onitoring well, aeria	photos, p	revious ins	pections),	if available:		
Aerial photo	ography: 2012, :	2010, 20	08-2009, 2005,	2004, 19	996				
Remarks:									
	cators observed.	Site on Fl	oodplain Zone A.	Inundati	on visible	on multi	ple years of imager	y. Wetland hydrology criterion	
is met.									

Project/Site: 130 Environmental Park		City/C	ounty:	Lockha	rt/Caldwell	Sampling [Date: 06/	26/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX			
						Gamping F	Olite T	
* ' ' '					convex, none): Concav	_ 'e	Slope (9/): 2
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: W - Water	Lat. <u>20.</u>				NWI classific			
Are climatic / hydrologic conditions on the site typical for t		O V					ic availa	DIC
							,	
Are Vegetation, Soil, or Hydrology					"Normal Circumstances"			_ No
Are Vegetation, Soil, or Hydrology	_ naturally pro	blema	atic?	(It n€	eeded, explain any answe	rs in Remar	ks.)	
SUMMARY OF FINDINGS – Attach site map	showing	sam	pling	point l	ocations, transects	, importa	ınt featı	ıres, etc.
Hydrophytic Vegetation Present? Yes ✓	No							·
Hydric Soil Present? Yes				Sampled				
Wetland Hydrology Present? Yes			within	a Wetlar	nd? Yes <u>√</u>	No _		
Remarks:								
Emergent wetland along shore of lake just north of	dam.							
VEGETATION – Use scientific names of pla	nte							
VEGETATION — 636 Scientific flames of pla	Absolute	Dom	ninant I	ndicator	Dominance Test work	sheet		
Tree Stratum (Plot size: 30')	% Cover				Number of Dominant S			
1					That Are OBL, FACW,			
2					(excluding FAC-):			(A)
3					Total Number of Domir	ant	•	(12)
4					Species Across All Stra	ta; <u>-</u>		(B)
Sapling/Shrub Stratum (Plot size: 15'		= Tota	al Cove	r	Percent of Dominant S That Are OBL, FACW,		00	(A/D)
1. Sesbania drummondii	5	Yes]	FACW				(A/B)
2.					Prevalence Index wor			
3					Total % Cover of:			
4					OBL species			
5					FACW species			
Herb Stratum (Plot size: 5'	5	= Tota	al Cove	r	FAC species			
1. Eleocharis engelmannii	80	Yes]	FACW	UPL species			
2. Xanthium strumarium	20	No	1	FAC	Column Totals:	· · · · · · · · · · · · · · · · · · ·		—— (B)
3. Iva annua	10	No		FAC				
4. Polygonum pensylvanicum	5	No		FACW	Prevalence Index			
5					Hydrophytic Vegetation		-	
6					1 - Rapid Test for I		Vegetatior	ו
7					3 - Prevalence Ind			
8					4 - Morphological /		(Provide s	Rupporting
9					data in Remark	s or on a set	parate she	et)
10	44.7				Problematic Hydro	phytic Veget	tation ¹ (Ex	plain)
Woody Vine Stratum (Plot size: 30'	113	= Tota	al Cove	r	¹ Indicators of hydric so	l and wetlan	d hydrolog	ov must
1					be present, unless distr			
2					Hydrophytic		,,,,	
0		= Tota	al Cove	r	Vegetation Present? Ye	s	N.a.	
% Bare Ground in Herb Stratum 0					riesent: re		NO	
Remarks: Emergent wetland dominated by spikerush. Hydro	nhytic vege	tation	critori	on is ma	. 1			
Emergent wettand dominated by spinordsin. Trydre	prijuo vogo	tation.	, Ollicii	011 13 1110				

Sampling Point: T16-DP10

S	O	ĺ	ı
_	_	۰	_

Profile Desc	cription: (Describe	to the dep	th needed to docum	nent the	indicator	or confire	m the absence of indicators.)	
Depth	Matrix			x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2		emarks
0-5	10 YR 2/1	80	5 YR 5/8	20	_ <u>C</u>	M/PL	Clay	
5-10	10 YR 3/1	45	10 YR 6/2	40	D	M		
			5 YR 5/8	15	С	М		
					.			
l ———							<u> </u>	·
l								
							· · · · · · · · · · · · · · · · · · ·	
Type: C=C	oncentration D=Dec	nletion RM:	=Reduced Matrix, CS	=Covere	ad or Coate	ad Sand G	rains. ² Location: PL=Pore	Lining MaMatrix
			LRRs, unless other			eu Sanu G	Indicators for Problematic	Hudric Soils ³
Histosol					atrix (S4)		1 cm Muck (A9) (LRR I,	-
_	oipedon (A2)		Sandy F				Coast Prairie Redox (A	
	stic (A3)		Stripped				Dark Surface (S7) (LRI	
	n Sulfide (A4)		Loamy N	đucky Mi	ineral (F1)		High Plains Depression	
Stratified	Layers (A5) (LRR	F)	Loamy (Sleyed M	latrix (F2)		(LRR H outside of M	, ,
	ick (A9) (LRR F, G,		Depleted				Reduced Vertic (F18)	·
	Below Dark Surfac	e (A11)	✓ Redox D				Red Parent Material (TF	
	ark Surface (A12)				urface (F7	}	Very Shallow Dark Surfa	
	lucky Mineral (S1) łucky Peat or Peat i	(90) (I PD (Redox D		ons (F8) essions (F	16)	Other (Explain in Remaissing 3 Indicators of hydrophytic version)	rks)
	cky Peat or Peat (S				73 of LRF	•	wetland hydrology must	
0 0	ony rode or rode (o	o, (=:::::)	(TO OT LINE	(11)	unless disturbed or prob	
Restrictive L	ayer (if present):						This dictar bas of pro-	, ionabo.
Type:								
Depth (inc	ches):						Hydric Soil Present? Yes	✓ No
Remarks:								
	riterion is met.							
							.	
HYDROLO	GY							
Wetland Hyd	Irology Indicators:		•				<u> </u>	
Primary Indic	ators (minimum of o	ne required	t; check all that apply	()			Secondary Indicators (mir	nimum of two required)
Surface '	Water (A1)		Salt Crust (B11)			Surface Soil Cracks (
	ter Table (A2)		Aguatic Inv	. ,	es (B13)			Concave Surface (B8)
Saturatio	on (A3)		Hydrogen S	Sulfide O	dor (C1)		Drainage Patterns (B	
Water M	arks (B1)		Dry-Seasor				= ,	es on Living Roots (C3)
Sedimen	t Deposits (B2)		✓ Oxidized R					
Drift Dep	osits (B3)		— (where п			V	Crayfish Burrows (C8)
Algal Ma	t or Crust (B4)		Presence of	f Reduc	ed Iron (C4	!)	✓ Saturation Visible on .	,
Iron Dep	osits (B5)		Thin Muck			,	✓ Geomorphic Position	
Inundatio	n Visible on Aerial I	magery (B7	7) Other (Exp	lain in Re	emarks)		✓ FAC-Neutral Test (D5))
Water-St	ained Leaves (B9)						Frost-Heave Hummod	
Field Observ	ations:						·	
Surface Wate	r Present? Y	es I	No ✓ Depth (inc	hes):				
Water Table I			No ✓ Depth (inc					
Saturation Pr			No / Depth (inc				and Hydrology Present? Yes	√ No
(includes cap	illary fringe)							
Describe Rec	orded Data (stream	gauge, mo	nitoring well, aerial p	hotos, pi	revious ins	pections),	if available:	
Remarks:		•						
Several indic	cators observed.	Floodplair	i Zone A. Wetland	hydrolo	ogy criteri	on is met	<u>.</u>	

Project/Site: 130 Environmental Park		City/Cor	_{untv:} Lockha	rt/Caldwell	Sampling Date: 06	6/27/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
			, Township, Ra		_ Gamping Fourt,	
				convex, none): Conca	ve stan-	(0/)- 2-4
Subregion (LRR): J - Southwestern Prairies	1-4. 29	Q5	eller (concave,	-97 65	Slope	(%): <u>~-</u> ~
	Lat: _20	.00				
Soil Map Unit Name: W - Water				NWI classif		able
Are climatic / hydrologic conditions on the site typical for						
Are Vegetation, Soil, or Hydrology	_ significantly	disturbe	ed? Are	"Normal Circumstances"	present? Yes ✓	_ No
Are Vegetation, Soil, or Hydrology	_ naturally pro	oblemati	c? (If ne	eeded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	p showing	samp	oling point I	ocations, transect	s, important feat	ures, etc.
Hydrophytic Vegetation Present? Yes ✓	No				-	
Hydric Soil Present? Yes ✓			s the Sampled			
Wetland Hydrology Present? Yes ✓		V	within a Wetlai	nd? Yes <u>▼</u>	No	
Remarks:						
Edge of lake						
VEGETATION III -: 4'C						
VEGETATION – Use scientific names of pla						
Tree Stratum (Plot size: 30'	Absolute % Cover		nant Indicator es? <u>Status</u>	Dominance Test wor		
1				Number of Dominant S That Are OBL, FACW,		
2				(excluding FAC-);	2	(A)
3.				Total Number of Domi	nant	
4				Species Across All Str	^	(B)
				Percent of Dominant S	Snecies	
Sapling/Shrub Stratum (Plot size: 10'				That Are OBL, FACW,	or FAC: 100	(A/B)
1. Sesbania drummondii		Yes	FACW	Prevalence Index wo	rkshoot:	
2					Multiply by	v.
3				OBL species		
4				FACW species		
5		- Total		FAC species		
Herb Stratum (Plot size: 5 ^t		= Total	Cover	FACU species		
1. Eleocharis engelmannii	90	Yes	FACW	UPL species		
2. Persicaria pensylvanicum	20	No	FACW	Column Totals:	(A)	(B)
3. Phyla lanceolata	25	No	FACW			
4. Cyperus reflexus	5	No	FAC		x = B/A =	
5				Hydrophytic Vegetati		
6				1 - Rapid Test for ✓ 2 - Dominance Te		n
7				3 - Prevalence Inc		
8				4 - Morphological		
9				data in Remark	s or on a separate she	eet)
10		·		Problematic Hydro	phytic Vegetation¹ (Ex	xplain)
Woody Vine Stratum (Plot size: 301)	140	= Total	Cover	¹ Indicators of hydric so	and wetland hydrole	au munt
1				be present, unless dist	urbed or problematic.	gy must
2				Hydrophytic		
2.				Vegetation		
% Bare Ground in Herb Stratum 0		Total		Present? Ye	es <u>√</u> No	_
Remarks:						
Emergent wetland dominated by spikerush. Hydro	ophytic vege	tation o	criterion is me	et.		

SOIL Sampling Point: T16-DP11

Profile Des	cription: (Describe	to the depth ne				or confirm	n the absence of i	ndicators.)
Depth (inches)	Matrix	0/		x Feature		12	T 4	5 .
(inches) 0-4	Color (moist) 10 YR 3/2		Color (moist) YR 4/6	<u>%</u> 30	<u>Type¹</u> C	Loc² M/PL	<u>Texture</u> Clay	Remarks
 	10 11(3/2	- 10 10	111 4/0				Clay	
	-							
								
				-				
	Concentration, D=Dep					ed Sand G		n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LRR			,		Indicators for	Problematic Hydric Soils ³ :
Histoso				Gleyed Ma				(A9) (LRR I, J)
	pipedon (A2)			Redox (S5				rie Redox (A16) (LRR F, G, H)
_	listic (A3)			d Matrix (S				ice (S7) (LRR G)
	en Sulfide (A4) d Layers (A5) (LRR l	E١		миску міі Gleyed M	neral (F1)			s Depressions (F16)
	uck (A9) (LRR F, G ,	,		d Matrix (outside of MLRA 72 & 73) /ertic (F18)
	d Below Dark Surfac		✓ Redox I		,			it Material (TF2)
	ark Surface (A12)	- ()			ırface (F7)	i		ow Dark Surface (TF12)
	Mucky Mineral (S1)		Redox I				-	plain in Remarks)
	Mucky Peat or Peat (High Pla	ains Depr	essions (F	16)	³ Indicators of h	ydrophytic vegetation and
5 cm M	ucky Peat or Peat (S	3) (LRR F)	(ML	RA 72 &	73 of LRR	: H)		drology must be present,
							unless dist	urbed or problematic.
	Layer (if present):							
Type: Co								
Depth (in	ches): -						Hydric Soil Pre	sent? Yes √ No
Remarks:								
Hydric soil	criterion is met.							
HYDROLO	GY							
Wetland Hy	drology Indicators:							
	cators (minimum of o		eck all that appl	y)	_		Secondary Ir	ndicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surface	Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic In	vertebrate	s (B13)			Vegetated Concave Surface (B8)
Saturati			Hydrogen					e Patterns (B10)
Water M	larks (B1)		Dry-Seaso	n Water 1	able (C2)		Oxidized	Rhizospheres on Living Roots (C3)
Sedime	nt Deposits (B2)		✓ Oxidized F	Rhizosphe	res on Livi	ing Roots	(C3) (where	e tilled)
Drift De	posits (B3)		(where r	not tilled)			Crayfish	Burrows (C8)
Algal Ma	at or Crust (B4)		Presence	of Reduce	d Iron (C4	·)	Saturatio	on Visible on Aerial Imagery (C9)
Iron Dep	oosits (B5)		Thin Muck	Surface (C7)			phic Position (D2)
Inundati	on Visible on Aerial I	magery (B7)	Other (Exp	olain in Re	marks)		✓ FAC-Ne	utral Test (D5)
Water-S	tained Leaves (B9)						Frost-He	eave Hummocks (D7) (LRR F)
Field Obser	vations:							-
Surface Wat	er Present? Y	es No. <u>⊀</u>	Depth (inc	ches):		_		
Water Table	Present? Y	es No_ ⊻	Depth (inc	ches):		_		
Saturation P		es No <u>✔</u>					and Hydrology Pro	esent? Yes ✓ No
	oillary fringe)							
Describe Re	corded Data (stream	gauge, monitori	ng well, aerial p	onotos, pr	evious ins	pections),	ıt available:	
Remarks:		E =	6 177 17	4.1				
Data point i	s along lake shore	. Floodplain Z	one A. Wetla	na hydro	logy crite	rion is m	et.	

Project/Site: 130 Environmental Park		Citv/C	ounty	Lockha	rt/Caldwell	Sampling Date: 06/27/2	2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX		
Investigator(s): Troegle, Josh & Boe, Brian							
Landform (hillslope, terrace, etc.):						Slope (%):	2
					Long: -97.65		
Soil Map Unit Name: W - Water					NWI classific		
Are climatic / hydrologic conditions on the site typical for	this time of ye	ar? Y	es 🗹	No _	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology	_ significantly	disturt	bed?	Are '	"Normal Circumstances" p	resent? Yes <u>√</u> No)
Are Vegetation, Soil, or Hydrology	_ naturally pro	blema	atic?	(If ne	eeded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	p showing	sam	ıplin	g point l	ocations, transects	, important features	s, etc.
Hydrophylic Vegetation Present? Yes	No ✓						
Hydric Soil Present? Yes				e Sampled		81a V	
Wetland Hydrology Present? Yes	No <u>√</u>		with	in a Wetlaı	ndr fes	No <u>√</u>	
Remarks: Upland area adjacent to fringe wetland along lake							
VEGETATION – Use scientific names of pl	Absolute	Dom	ninant	Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30'	% Cover	_			Number of Dominant Sp		
1.					That Are OBL, FACW, o		
2				-	(excluding FAC-):	1	(A)
3					Total Number of Domina	^	
4					Species Across All Stra	ta: <u>3</u>	(B)
Sapling/Shrub Stratum (Plot size: 15')		= Tota	al Cov	/er	Percent of Dominant Sp		/ ^ / PO \
1. Ulmus crassifolia	5	Yes		FAC	That Are OBL, FACW, o	or FAC: 30	(A/B)
2. Prosopis glandulosa	5	Yes		FACU	Prevalence Index worl		
3.					l .	Multiply by:	
4						x 1 =	_
5					1	x 2 =	
ج.	10	= Tota	al Cov	/er	1	× 3 =	
Herb Stratum (Plot size: 5') 1. Buchloe dactyloides	90	Yes		UPL		x 4 =	-
2. Phalaris caroliniana	10	No No		FACW		x 5 =	- (D)
3 Solanum elaeagnifolium	— 10	No		UPL	Column rotals.	(A)	_ (B)
·					Prevalence Index	= B/A =	_
4					Hydrophytic Vegetation	on Indicators:	_
5 6					1 - Rapid Test for F	lydrophylic Vegetation	
7					2 - Dominance Tes	t is >50%	
8.					3 - Prevalence Inde		
9.					4 - Morphological A	daptations ¹ (Provide supp s or on a separate sheet)	orting
10						on on a separate sneet) ohytic Vegetation¹ (Explain	٦)
Woody Vine Stratum (Plot size: 30'	105	= Tota	al Cov	/er	¹ Indicators of hydric soil	and wetland hydrology mi	•
1					be present, unless distu	rbed or problematic.	
2 % Bare Ground in Herb Stratum 0		= Tota	al Cov		Hydrophytic Vegetation Present? Yes	s No_ <u>√</u>	
Remarks:							
Upland grassland area dominated by buffalograss	s. Hydrophyt	ic veg	getatio	on c r iterio	on is not met.		

Sampling Point: T16-DP12

\sim	\sim	н	
-		п	r
v	v	п	

Profile Des	cription: (Descri	be to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence	of indicator	rs.)		
Depth	Matri			x Feature							
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc ²	<u>Texture</u>		Remarks		
0-4	10 YR 3/1	<u>100</u> _					Clay	Cobble			
							-			-	
			•								
· — —								_			
l ———									<u> </u>		
ļ											
ļ											
¹Type: C=C	oncentration, D=E	epletion, RM=R	educed Matrix, CS	S=Covered	d or Coate	d Sand Gr	rains. ² Lo	cation: PL=F	Pore Lining, M=Matrix.		
	Indicators: (App							for Problen	natic Hydric Soils³:		
Histosol	(A1)		Sandy (Gleyed Ma	trix (S4)		1 cm h	Muck (A9) (LI	RR I, J)		
	pipedon (A2)		Sandy F	Redox (S5)		Coast	Prairie Redo	x (A16) (LRR F, G, H)		
	istic (A3)			l Matrix (S				Surface (S7)			
	en Sulfide (A4)	D. E.\		Mucky Mir	, ,			lains Depres			
	d Layers (A5) (LR Jck (A9) (LRR F, (•		Gleyed Ma d Matrix (F			,		e of MLRA 72 & 73)		
	d Below Dark Suri			o Matrix (r Dark Surfa	,			ed Vertic (F1 arent Materia	,		
	ark Surface (A12)			d Dark Su					Surface (TF12)		
	lucky Mineral (S1)		epression				(Explain in R	١ ,		
I —	Mucky Peat or Pea		. — -	ins Depre		-	³ Indicators	of hydrophyt	tic vegetation and		
5 cm Mu	icky Peat or Peat	(S3) (LRR F)	(ML	RA 72 & 7	3 of LRR	H)			must be present,		
Poetrictive I	augustie nuoconti		· · · · · · · · · · · · · · · · · · ·				unless	disturbed or	problematic.		
Type: Co	Layer (if present)	:									
			_					_			
Depth (inc	ones):		-				Hydric Soil	Present?	Yes No <u>✓</u>		
Remarks:	-11 (
I No Hydric sc	oil indicators ob:	serveu.									
HYDROLO	GY										
Wetland Hyd	drology Indicator	s:									
_	ators (minimum c		heck all that apply	/)			Seconda	nv Indicators	(minimum of two requi	red)	
Surface	Water (A1)		Salt Crust	(B11)				ace Soil Cra			
High Wa	ter Table (A2)		Aquatic Inv		s (B13)				ted Concave Surface (E	381	
Saturatio	on (A3)		Hydrogen	Sulfide Od	lor (C1)		Drainage Pattems (B10)				
Water M	arks (B1)		Dry-Seaso				Oxidized Rhizospheres on Living Roots (C3)				
Sedimen	nt Deposits (B2)		Oxidized R	hizospher	es on Livi	ng Roots ((C3) (w	here tilled)	•		
Drift Dep	osits (B3)		(where r	ot tilled)			Cray	fish Burrows	s (C8)		
Algal Ma	t or Crust (B4)		Presence of	of Reduce	d Iron (C4)	Saturation Visible on Aerial Imagery (C9)				
Iron Dep	osits (B5)		Thin Muck				✓ Geo	morphic Pos	ition (D2)		
Inundatio	on Visible on Aeria	al Imagery (B7)	Other (Exp	lain in Re	marks)		FAC	-Neutral Tes	t (D5)		
Water-St	tained Leaves (B9)					Fros	t-Heave Hun	nmocks (D7) (LRR F)		
Field Observ	/ations:										
Surface Wate	er Present?		✓ Depth (inc								
Water Table	Present?		✓ Depth (inc								
Saturation Pr		Yes No	✓ Depth (inc	:hes):		_ Wetla	and Hydrolog	y Present?	Yes No <u>√</u>		
(includes cap	ollary tringe) corded Data (strea	ım galige moniti	oring well serial r	hotoe pre	wioue iner	poctions)	if available:			_	
Describe Ker	orded Data (Sties	an gauge, morni	omig weil, aeilai þ	notos, pre	vious IIIS	Jections), 1	ıı avallable.				
Domonica											
Remarks:	unelono from !-	ka shara and	etroom observal	Cito in :		lom Els	adalais Zes	Λ 387-11 :	d b.,.d.,r	,	
not met.	absiobe iroiti is	ing Shore and	sueam channel.	one is f	IOTHI OF O	iaiii. Fi00	oupiain Zoñe	A. vvetiano	d hydrology criterion i	IS	



Data Point 1 Mesquite Woods



Data Point 1 Mesquite Grassland Mosaic



Data Point 2 Floodplain Meadows

T16 - Page 1



Data Point 2 Floodplain Meadows



Data Point 3 Emergent Wetlands



Data Point 4
Riparian Woods (Cedar Elm/Oak)



Data Point 4
Riparian Woods (Cedar Elm/Oak)



Data Point 5 Riparian Woods (Cedar Elm/Oak)



Data Point 6 Mesquite Grassland Mosaic



Data Point 6 Mesquite Grassland Mosaic



Data Point 7 Floodplain Meadows



Data Point 8 Emergent Wetlands

T16 - Page 4



Data Point 9 Scrub/ Shrub Wetlands



Data Point 10 Emergent Wetlands



Data Point 11 Emergent Wetlands

T16 - Page 5



Data Point 12 Mesquite Grassland Mosaic

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: 130 Environmental Park		City/Coun	ty: Lockha	rt/Caldwell	Sampling Date: 07/10	/2013
Applicant/Owner: 130 Environmental Park, LLC		_		State: TX	Sampling Point; T18-D	DP1
Investigator(s): Troegle, Josh & Littleton, Brandy						
					Slope (%):	. 0-1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: FeE - Fett gravelly soils, 1-1						
Are climatic / hydrologic conditions on the site typical for						
Are Vegetation, Soil, or Hydrology						lo
Are Vegetation, Soil, or Hydrology	_ naturally pro	blematic?	' (If ne	eeded, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	p showing	sampli	ng point l	ocations, transects	s, important feature	s, etc.
Hydrophytic Vegetation Present? Yes	No ✓		-			
Hydric Soil Present? Yes			the Sampled		No_ √	
Wetland Hydrology Present? Yes	No <u>√</u>	WII	thin a Wetlar	na? res	No <u>*</u>	
Remarks:		 				
VEGETATION – Use scientific names of pl	ants.					
Tree Stratum (Plot size: 30'	Absolute		nt Indicator ? Status	Dominance Test work	sheet:	
1. Quercus stellata	30	Yes	FACU	Number of Dominant S That Are OBL, FACW,	•	
2 Prosopis glandulosa	8	No	FACU	(excluding FAC-):	0	(A)
3. Ulmus crassifolia	5	No	FAC	Takal Nivesh and Danie		. ,
A.				Total Number of Domir Species Across All Stra	^	(B)
4	43	= Total C	over			(-)
Sapling/Shrub Stratum (Plot size: 15'		- Total C	OVEI	Percent of Dominant S That Are OBL, FACW,		(A/B)
1. Prosopis glandulosa	10	Yes	FACU			
2. Ulmus crassifolia	5	No	FAC	Prevalence Index wor		
3. Diospyros texana	2	No	NI		Multiply by:	
4. Mahonia trifoliolata	25	Yes	NI		x 1 =	
5				1	x 2 =	i
5!	42	= Total C	over		x 3 =	
Herb Stratum (Plot size: 5' 1. Dichanthelium linearifolium	10	Yes	Nl	1	x 4 =	_
2. Schizachyrium scoparium	30	Yes	FACU	· -	x 5 = (A)	— /B)
3 Euphorbia tirucalli		No	NI	Coldinii Totals.	(^)	_ (5)
				Prevalence index	c = B/A =	_
4				Hydrophytic Vegetati	on Indicators:	
5 6				1 - Rapid Test for	Hydrophytic Vegetation	
7				2 - Dominance Te		
8				3 - Prevalence Ind		
9					Adaptations ¹ (Provide sup	
10.					s or on a separate sheet)	
		= Total C	over		phytic Vegetation ¹ (Expla	•
Woody Vine Stratum (Plot size: 30'				Indicators of hydric so	il and wetland hydrology r	must
1. Smilax bona-nox	5	Yes	FACU	be preseπt, unless dist	urbed or problematic.	
2		-		Hydrophytic		
% Bare Ground in Herb Stratum 70	5	= Total C	over	Vegetation Present? Yes	es <u>√</u> No	
Remarks:						
TOTAL NO.						

US Army Corps of Engineers

Sampling Point: T18-DP1 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators,) Depth Redox Features Matrix (inches) Color (moist) Color (moist) % Type¹ Loc² Texture ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Sandy Gleyed Matrix (S4) Histosol (A1) ___ 1 cm Muck (A9) (LRR I, J) ___ Histic Epipedon (A2) ___ Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) ___ Black Histic (A3) ___ Stripped Matrix (S6) ___ Dark Surface (S7) (LRR G) ___ Hydrogen Sulfide (A4) ___ Loamy Mucky Mineral (F1) High Plains Depressions (F16) ___ Stratified Layers (A5) (LRR F) ___ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) ___ Depleted Matrix (F3) ___ 1 cm Muck (A9) (LRR F, G, H) Reduced Vertic (F18) ___ Redox Dark Surface (F6) ___ Depleted Below Dark Surface (A11) Red Parent Material (TF2) ___ Depleted Dark Surface (F7) ___ Very Shallow Dark Surface (TF12) Thick Dark Surface (A12) ___ Redox Depressions (F8) Sandy Mucky Mineral (S1) Other (Explain in Remarks) ___ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) 3Indicators of hydrophytic vegetation and ___ High Plains Depressions (F16) __ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) ___ Salt Crust (B11) Surface Soil Cracks (B6) ___ High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Hydrogen Sulfide Odor (C1) ___ Drainage Patterns (B10) ___ Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres on Living Roots (C3) (where tilled) ___ Drift Deposits (B3) (where not tilled) ___ Crayfish Burrows (C8) _ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) ___ Saturation Visible on Aerial Imagery (C9) ___ Iron Deposits (B5) __ Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ___ FAC-Neutral Test (D5) Water-Stained Leaves (B9) ___ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes ____ No ✓ Depth (inches): ___ Surface Water Present? Yes _____ No ✓ __ Depth (inches): _____ Water Table Present? Yes _____ No <u>✓</u> Depth (inches): _____ Saturation Present? Wetland Hydrology Present? Yes ____ No ✓ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:



Data Point 1 Mesquite Woods



Data Point 1 Mesquite Woods



Data Point 1 Mesquite Woods

T18 - Page 1

THIS PAGE LEFT BLANK INTENTIONALLY

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: 130 Environmental Park		Citv/Co	ountv:	Lockha	rt/Caldwell	Samplin	o Date: 07/0	8/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX			
Investigator(s): Troegle, Josh & Littleton, Brandyn							J	
Landform (hillslope, terrace, etc.): Floodplain							Sinne (9	6)· 0-1
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: Ts - Tinn soils, frequently flood					NWI classi			
Are climatic / hydrologic conditions on the site typical for thi								
								N.
Are Vegetation, Soil, or Hydrologys					"Normal Circumstances			NO
Are Vegetation, Soil, or Hydrology to SUMMARY OF FINDINGS - Attach site map					eeded, explain any ansv		·	res. etc.
· · ·			F9	, , , , , , , ,			tant route	700, 0101
Hydrophylic Vegetation Present? Yes ✓ N			Is the	Sampled	l Area			
	No		withir	ı a Wetlaı	nd? Yes <u>√</u>	No		
Wetland Hydrology Present? Yes ✓ N Remarks:	4o <u> </u>							
Remarks.								
VEGETATION – Use scientific names of plan	nte	-						
VEGETATION — Ose scientific flutties of plan	Absolute	Domi	inant	Indicator	Dominance Test wo	rksheet:		
Tree Stratum (Plot size: 30'	% Cover				Number of Dominant			
1					That Are OBL, FACW		2	
2	_				(excluding FAC-):		2	(A)
3					Total Number of Dom		2	
4					Species Across All S	rata;	2	(B)
Sapling/Shrub Stratum (Plot size: 15')		= Tota	I Cove	er	Percent of Dominant		100	(4.45)
1					That Are OBL, FACW	l, or FAC:	100	(A/B)
2.					Prevalence Index w	orksheet:		
3					Total % Cover of			
4					OBL species			
5					FACW species			
<i>E</i> !		= Tota	al Cove	er	FAC species			
Herb Stratum (Plot size: 5'	70	Yes		FAC	FACU species			
2. Persicaria hydropiperoides	30	Yes		OBL			5 =	
3. Cyperus polystachyos	20	No		FACW	Column Totals:	(A	/	(B)
4. Elymus virginicus	5	No		FAC	Prevalence Inde	ex = B/A =		
5. Sporobolus compositus	10	No		UPL	Hydrophytic Vegeta	tion Indica	tors:	
6.					1 - Rapid Test fo		-	
7					✓ 2 - Dominance T			
8					3 - Prevalence In			
9.					4 - Morphologica data in Rema	l Adaptation	ns' (Provide s separate shee	upporting
10					Problematic Hyd			
301	135	= Tota	al Cove	er				•
Woody Vine Stratum (Plot size: 30')					¹ Indicators of hydric s be present, unless di	oil and wetl sturbed or c	land hydrolog roblematic.	y must
1								
2					Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 25		_ Tota	ai Cove) I	Present?	′es <u></u>	No	
Remarks:							-	
Abundant cedar elm snags								

SOIL Sampling Point: T19-DP1

1	cription: (Describe	e to the de	oth need				or confirm	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Col	Redo or (moist)	x Feature %	s _Type ¹	Loc ²	Texture	Domonle
0-12	10 YR 2/1	85	5 YR		15	C	M	Clay	Remarks
			-			· —		Olay	
				_					
				· · · · · · · · · · · · · · · · · · ·					
l 									
	oncentration, D=De						ed Sand G		tion: PL=Pore Lining, M=Matrix.
	Indicators: (Appli	cable to all	LKKS,						or Problematic Hydric Soils ³ :
Histoso!	, ,				Gleyed Ma				ick (A9) (LRR I, J)
	pipedon (A2) istic (A3)				Redox (S5 d Matrix (S	-			rairie Redox (A16) (LRR F, G, H) rface (S7) (LRR G)
	en Sulfide (A4)				Mucky Mir				ins Depressions (F16)
	Stratified Layers (A5) (LRR F) Loamy Gleyed Matrix (F								H outside of MLRA 72 & 73)
	ick (A9) (LRR F, G ,				d Matrix (I				Vertic (F18)
_ ·	d Below Dark Surfa	ce (A11)		✓ Redox [ent Material (TF2)
1	ark Surface (A12)				d Dark Su)		allow Dark Surface (TF12)
	Mucky Mineral (S1)	/00\ /L DD	С П/		Depressio		40\		xplain in Remarks)
	Mucky Peat or Peat ucky Peat or Peat (\$			High Pla	RA 72 & 7	•			hydrophytic vegetation and hydrology must be present,
_ 0 01111110	iony i car or i car (c) (LIXIX)		(1412	10A 12 GL 1	O LINI	,		isturbed or problematic.
Restrictive I	Layer (if present):							T	eta. De d'a problemate.
Type:									
Depth (inc	ches):							Hydric Soil P	resent? Yes ✓ No
Remarks:								<u> </u>	
									
HYDROLO									
Wetland Hyd	drology Indicators	:							
Primary Indic	cators (minimum of	one require	d; check	all that apply	y)			Secondary	Indicators (minimum of two required)
	Water (A1)		_	_ Salt Crust	` '			Surfac	e Soil Cracks (B6)
	iter Table (A2)			_ Aquatic Inv					ely Vegetated Concave Surface (B8)
Saturatio	• '		_	_ Hydrogen :		` ,			ige Patterns (B10)
	arks (B1)		_	_ Dry-Seaso					ed Rhizospheres on Living Roots (C3)
	nt Deposits (B2)			Oxidized R	-	res on Livi	ng Roots	. , , ,	ere tilled)
	posits (B3)				ot tilled)				sh Burrows (C8)
	it or Crust (B4)		_	_ Presence o			·)		ition Visible on Aerial Imagery (C9)
	osits (B5)	Imagan/P	-	_ Thin Muck					orphic Position (D2)
_	on Visible on Aerial tained Leaves (B9)	iiriagery (b	′′ –	Other (Exp	nam m Re	marks)			leutral Test (D5)
Field Observ								Frost-r	Heave Hummocks (D7) (LRR F)
		/	N= ./	Dooth Gove	ala a a Vi				
Surface Water				Depth (ind					
Water Table				Depth (ind			1		
Saturation Pr (includes cap		res	No <u>▼</u>	_ Depth (inc	ches):		_ Wetla	and Hydrology F	Present? Yes ✓ No
	corded Data (stream	n gauge, mo	nitoring	well, aerial p	hotos, pre	evious ins	pections),	if available:	
				•	-		, ,		
Remarks:									

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: 130 Environmenta	l Park		City/Co	ounty:	Lockha	rt/Caldwe	ell	Samplin	g Date: 0	7/8/2013
Applicant/Owner: 130 Environme							te: TX	-		
Investigator(s): Troegle, Josh &									_	
Landform (hillslope, terrace, etc.):	• • • • • • • • • • • • • • • • • • • •					_	ne): None		Slope	e (%): 0-2
Subregion (LRR): J - Southweste										
Soil Map Unit Name: WgC - Wilso							NWI classif			
Are climatic / hydrologic conditions o										
Are Vegetation, Soil,							rcumstances"			No
Are Vegetation, Soil,							ain any answ			140
							-		,	
SUMMARY OF FINDINGS -	Attach site map	snowing	sam	piing	g point i	ocations	transect	s, impor	tant fea	tures, etc.
Hydrophytic Vegetation Present?	Yes N	10 ✓		le the	e Sampled	l Area				
Hydric Soil Present?	Yes N	10 ✓			in a Wetlar		Yes	No	✓	
Wetland Hydrology Present?	Yes N	4o <u>√</u>		*******	iri a victiai					
Remarks:										
VEGETATION – Use scienti	fic names of plan	nte								
VEGETATION - OSe Scienti		Absolute	Dom	inant	Indicator	Domina	nce Test wo	rkehoot:		
Tree Stratum (Plot size: 30')	% Cover					of Dominant			
1. Quercus stellata		75	Yes		FACU	That Are	OBL, FACW		0	
2. Ulmus crassifolia		30	Yes		FAC	(excludin	ng FAC-):		3	(A)
3						1	mber of Dom		c	
4						Species	Across All St	rata:	6	(B)
Sapling/Shrub Stratum (Plot size:	15'	105	= Tota	al Cov	er		of Dominant		50	
1. Ulmus crassifolia)	5	Yes		FAC	That Are	OBL, FACW	, or FAC:	50	(A/B)
2. Ligustrum sinense		10	Yes		UPL	Prevaler	nce Index wo	orksheet:		
3. Diospyros texana		10	Yes		NI		al % Cover of:			
4.							cies			
5							pecies			
51		25	= Tota	al Cov	er		cies			
Herb Stratum (Plot size: 5' 1 Elymus virginicus)	60	Yes		FAC		pecies			
·· -					TAC	UPL spe		X:		
2						Column	Totals:	(A	, —	(B)
3						Pre	evalence Inde	•x = B/A =		
5						Hydroph	nytic Vegetat	tion Indica	tors:	
6.						1 - F	Rapid Test for	· Hydrophyt	ic Vegetat	ion
7							Dominance Te			
8.						I —	revalence In			
9.						4 - N	vlorphological lata in Remar	⊦Adaptatior ks or on a ∈	is' (Provid separate s	e supporting
10							olematic Hydr		-	-
	.01	60	= Tota	al Cov	er er		•	. ,	,	• /
Woody Vine Stratum (Plot size: 3							ers of hydric s ent, unless dis			
1										
2						Hydroph Vegetati			_	
% Bare Ground in Herb Stratum 5	5		, - 1016	ai Cov	, Ći	Present	? Y	'es	No <u>✓</u>	_
Remarks:	,					•				

Sampling Point: T19-DP2 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) % Type¹ Loc² Texture ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ___ Sandy Gleyed Matrix (S4) Histosol (A1) ___ 1 cm Muck (A9) (LRR I, J) ___ Sandy Redox (S5) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR F, G, H) ___ Black Histic (A3) ___ Stripped Matrix (S6) ___ Dark Surface (S7) (LRR G) ___ Hydrogen Sulfide (A4) ___ Loamy Mucky Mineral (F1) High Plains Depressions (F16) ___ Stratified Layers (A5) (LRR F) ___ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) ___ Depleted Matrix (F3) ___ 1 cm Muck (A9) (LRR F, G, H) _ Reduced Vertic (F18) ___ Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Red Parent Material (TF2) Depleted Dark Surface (F7) ___ Very Shallow Dark Surface (TF12) Thick Dark Surface (A12) ___ Sandy Mucky Mineral (S1) ___ Redox Depressions (F8) Other (Explain in Remarks) ___ High Plains Depressions (F16) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) 3Indicators of hydrophytic vegetation and 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: _ Depth (inches): Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) __ Saturation (A3) __ Hydrogen Sulfide Odor (C1) ___ Drainage Patterns (B10) ___ Water Marks (B1) Dry-Season Water Table (C2) ___ Oxidized Rhizospheres on Living Roots (C3) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) (where tilled) ___ Drift Deposits (B3) (where not tilled) ___ Crayfish Burrows (C8) _ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) ___ Iron Deposits (B5) ___ Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ___ FAC-Neutral Test (D5) Water-Stained Leaves (B9) ___ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes ____ No ✓ Depth (inches): _____ Surface Water Present? Yes _____ No <u>✓</u> Depth (inches): _____ Water Table Present?

Saturation Present?

Remarks:

(includes capillary fringe)

Wetland Hydrology Present? Yes ____ No ✓

Yes ____ No ✓ Depth (inches): _____

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



Data Point 1 Sumpweed Depressions



Data Point 1 Sumpweed Depressions



Data Point 1 Sumpweed Depressions



Data Point 2 Post Oak Woods



Data Point 2 Post Oak Woods

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: 130 Environmental Park		City/Co	_{unty:} Lockha	rt/Caldwell	Sampling Date: 07/8/2013
Applicant/Owner: 130 Environmental Park, LLC			=		Sampling Point: T20-DP1
Investigator(s): Troegle, Josh & Littleton, Brandyr					
					Slope (%): 4-6
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam,					cation: None available
Are climatic / hydrologic conditions on the site typical for the					
Are Vegetation, Soil, or Hydrology					present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map	snowing	samp	oling point i		s, important features, etc.
Hydrophytic Vegetation Present? Yes			s the Sampled	l Area	
Hydric Soil Present? Yes	No <u>√</u>	}	within a Wetlar		No <u>√</u>
Wetland Hydrology Present? Yes	No <u></u> ✓				
Remarks:					
				·	
VEGETATION – Use scientific names of pla				T	
Tree Stratum (Plot size: 30'	Absolute % Cover		nant Indicator es? <u>Status</u>	Dominance Test worl	
1. Quercus stellata	50	Yes	FACU	Number of Dominant S That Are OBL, FACW,	
2. Ulmus crassifolia	25	Yes	FAC	(excluding FAC-):	<u>2</u> (A)
3.				Total Number of Domis	nant
4.				Species Across All Stra	
151	75	= Total	l Cover	Percent of Dominant S	pecies
Sapling/Shrub Stratum (Plot size: 15')	15	Yes	FAC	That Are OBL, FACW,	
1. Ulmus crassifolia		1 es		Prevalence Index wo	rksheet:
2				Total % Cover of:	Multiply by:
3					x 1 =
5				FACW species	x 2 =
<u> </u>	15	= Total	Cover	FAC species	x 3 =
Herb Stratum (Plot size: 51		•			x 4 =
1. Opuntia engelmannii		Yes	NI		x 5 =
2. Cylindropuntia leptocaulis	_ 5	Yes	NI NI	Column Totals:	(A) (B)
3. Dichanthelium linearifolium	_ 5	Yes	<u>NI</u>	Prevalence Index	< = B/A =
4				Hydrophytic Vegetati	·
5				1	Hydrophytic Vegetation
6				2 - Dominance Te	st is >50%
7				3 - Prevalence Ind	lex is ≤3.0 ¹
8				4 - Morphological	Adaptations ¹ (Provide supporting
9					s or on a separate sheet)
100		= Total	Cover		pphytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30')					il and wetland hydrology must
1				be present, unless dist	urbed or problematic.
2				Hydrophytic	
% Bare Ground in Herb Stratum 45		= Total	l Cover	Vegetation Present? Ye	es No_ <u></u>
Remarks:				1	

Sampling Point: T20-DP1 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ___ Sandy Gleyed Matrix (S4) Histosol (A1) ___ 1 cm Muck (A9) (LRR I, J) ___ Histic Epipedon (A2) ___ Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Black Histic (A3) ___ Stripped Matrix (S6) ___ Dark Surface (S7) (LRR G) ___ Hydrogen Sulfide (A4) ___ Loamy Mucky Mineral (F1) ___ High Plains Depressions (F16) ___ Stratified Layers (A5) (LRR F) ___ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) ___ Depleted Matrix (F3) ___ 1 cm Muck (A9) (LRR F, G, H) Reduced Vertic (F18) ___ Depleted Below Dark Surface (A11) ___ Redox Dark Surface (F6) Red Parent Material (TF2) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) ___ Sandy Mucky Mineral (S1) ___ Redox Depressions (F8) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and ___ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) ___ High Plains Depressions (F16) ___ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): _ Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) ___ Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) ___ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) ___ Saturation (A3) _ Hydrogen Sulfide Odor (C1) __ Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) ___ Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) ___ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) ___ Iron Deposits (B5) __ Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) _ FAC-Neutral Test (D5) __ Water-Stained Leaves (B9) ___ Frost-Heave Hummocks (D7) (LRR F) Field Observations:

US Army Corps of Engineers

Surface Water Present?

(includes capillary fringe)

Water Table Present?

Saturation Present?

Remarks:

Wetland Hydrology Present? Yes ____ No ✓

Yes ____ No ✓ Depth (inches):

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

Yes ____ No ✓ Depth (inches); ____

Yes _____ No <u>✓</u> Depth (inches): _____

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: 130 Environmental Park		Citv/C	ounty:	Lockhai	rt/Caldwell	Sampling Date: 0	7/9/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX		
tnvestigator(s): Troegle, Josh & Littleton, Brandyn						Odmping Folic.	
Landform (hillslope, terrace, etc.): Floodplain						/e 01	·ου Ω-1
Subregion (LRR): J - Southwestern Prairies		Local	reliet (concave,	onvex, none): Octobr	Slope	3 (%): <u>0-1</u>
Soil Map Unit Name: FeE - Fett gravelly soils, 1-129							lable
Are climatic / hydrologic conditions on the site typical for this	is time of ye	ar? Y	es 🗸	No _	(If no, explain in F	ternarks.)	
Are Vegetation, Soil, or Hydrology	significantly	distur	bed?	Are "	Normal Circumstances" ;	present? Yes <u>✓</u>	No
Are Vegetation, Soil, or Hydrology	naturally pro	blema	atic?	(If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	showing	sam	pling	point l	ocations, transects	s, important fea	itures, etc.
Hydrophytic Vegetation Present? Yes ✓ N	Jo.						
Hydric Soil Present?				Sampled			
Wetland Hydrology Present? Yes ✓			withi	n a Wetlar	ıd? Yes <u>▼</u>	No	
Remarks:				-			
Pond fringe wetland.							
	4 -						
VEGETATION – Use scientific names of plan			. ,		· · · · · · · · · · · · · · · · · · ·		
Tree Stratum (Plot size: 30'	Absolute % Cover			Indicator Status	Dominance Test work		
1.					Number of Dominant S That Are OBL, FACW,		
2.					(excluding FAC-):	1	(A)
3					Total Number of Domir	nant	
4					Species Across All Stra	ata: <u>1</u>	(B)
151		= Tot	al Cove	∍ r	Percent of Dominant S	pecies	
Sapling/Shrub Stratum (Piot size: 15'					That Are OBL, FACW,	or FAC: 100	(A/B)
1					Prevalence Index wor	ksheet:	
2					Total % Cover of:	Multiply	by:
3					OBL species	x1=	
5					FACW species	x 2 =	
		= Tot	al Cove	 ∋r	FAC species	x 3 =	
Herb Stratum (Plot size: 5')					FACU species	x 4 =	
1. Eleocharis compressa		Yes		OBL	UPL species		
2. Persicaria hydropiper	_ 25	No		OBL	Column Totals:	(A)	(B)
3. Iva annua	30	No		FACW	Prevalence Index	x = B/A =	
4. Cyperus polystachyos 5. Carex brevior	- 15 25	No		FAC	Hydrophytic Vegetati		
		No		FAC	1 - Rapid Test for I		ion
6.					✓ 2 - Dominance Tes	st is >50%	
7					3 - Prevalence Ind	ex is ≤3,0 ¹	
8					4 - Morphological /		
9						s or on a separate s	,
10.	175	= Tot	al Cove		Problematic Hydro	phytic Vegetation' (I	Explain)
Woody Vine Stratum (Plot size: 30'		100	u. 001.		¹ Indicators of hydric so		
1					be present, unless dist	urbed or problematio).
2					Hydrophytic		
2/ Barra Consumed in Lloyde Chrobines 15		= Tot	al Cove	∍r	Vegetation Present? Ye	es_ <u>√</u> No	
% Bare Ground in Herb Stratum 15							
							,
							•

SOIL Sampling Point: T20-DP2

Profile Des	scription: (Describe	to the dept				or confir	m the absence of i	ndicators.)
Depth	Matrix (0/	Red	ox Feature	es	. 2		
(inches) 0-4	Color (moist) 10 YR 4/1	<u>%</u> 75	Color (moist) 5 YR 4/6	_ <u>%_</u> 25	Type	Loc ²		Remarks
-					_ <u>C</u>	M/PL	Clay	
4-10	2.5 Y 6/4	40	10 YR 5/8	_ 15	_ <u>C</u>	M/PL	Clay	
	2.5 Y 6/2	_ 45		_				
-		·	_					
	- <u> </u>	 .						
	Concentration, D=Dep					ed Sand G		n: PL=Pore Lining, M=Matrix.
_	Indicators: (Applie	able to all l			,		Indicators for	Problematic Hydric Soils ³ :
Histoso	• •		-	Gleyed M				(A9) (LRR I, J)
	Epipedon (A2)			Redox (S	•			rie Redox (A16) (LRR F, G, H)
_	listic (A3) en Sulfide (A4)		·	ed Matrix (S6) ineral (F1)			ce (S7) (LRR G) s Depressions (F16)
	ed Layers (A5) (LRR	F)			latrix (F2)			outside of MLRA 72 & 73)
	luck (A9) (LRR F, G ,		✓ Deplete	-			Reduced V	
1	ed Below Dark Surfac			Dark Surf				t Material (TF2)
	ark Surface (A12)		Deplete	ed Dark S	urface (F7)	Very Shallo	ow Dark Surface (TF12)
	Mucky Mineral (S1)		Redox	-				lain in Remarks)
_	Mucky Peat or Peat				essions (F			ydrophytic vegetation and
эстм	ucky Peat or Peat (S	3) (LRR F)	(М.	LRA /2 &	73 of LRF	(н)		drology must be present, urbed or problematic.
Restrictive	Layer (if present):	·					driless dist	urbed or problematic.
Type:								
	nches):		_				Hydric Soil Pre-	sent? Yes ✓ No
Remarks:							,	10310
								
HYDROLC								
•	drology Indicators:							···
-	icators (minimum of c	ne required:	; check all that app	ly}		 	Secondary In	dicators (minimum of two required)
✓ Surface	Water (A1)		Salt Crust	• /			Surface	Soil Cracks (B6)
	ater Table (A2)		Aquatic In				Sparsely	Vegetated Concave Surface (B8)
✓ Saturati			Hydrogen					Patterns (B10)
	Marks (B1)				Table (C2)			Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		✓ Oxidized I			ing Roots	` '	e tilled)
· —	posits (B3)		,	not tilled)		43		Burrows (C8)
	at or Crust (B4)		Presence		,	4)		n Visible on Aerial Imagery (C9)
	posits (B5) ion Visible on Aerial I	(D7)	Thin Muck					phic Position (D2)
· 		magery (b/) Other (Ex	piain in Re	emarks)			utral Test (D5)
Field Obser	Stained Leaves (B9)		·				Frost-He	ave Hummocks (D7) (LRR F)
		00 / N	lo Depth (in	-ba-\ 2				
						-		
Water Table	riesent/ Y	es N	lo <u>√</u> Depth (in lo Depth (in	icnes):	urface	- ,		10.34
Saturation P (includes ca	resent? Y pillary fringe)	es_▼N	io Depth (in	icnes): <u>O</u>	unace	_ Wetl	and Hydrology Pre	esent? Yes / No
	corded Data (stream	gauge, mor	nitoring well, aerial	photos, pr	revious ins	pections),	if available:	
Remarks:								<u></u>

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: 130 Environmental Park	(City/Cou	_{nty:} Lockha	rt/Caldwell	_ Sampling D	ate: 07/09/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX	_ Sampling P	oint: T20-DP3
Investigator(s): Troegle, Josh & Littleton, Brand	yn	Section,	Township, Ra	nge: NA		
Landform (hillslope, terrace, etc.): On-Channel		Local re	lief (concave,	convex, none); Conca	ve	Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: FeE - Fett gravelly soils, 1-1				NWI classif		
Are climatic / hydrologic conditions on the site typical for						2 = 1 = 1 = 1
						/
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology	naturally pro	blematic	:? (If n∈	eeded, explain any answ	ers in Remark	s.)
SUMMARY OF FINDINGS – Attach site ma	ap showing	samp	ling point l	ocations, transect	s, importai	nt features, etc.
Hydrophytic Vegetation Present? Yes ✓	No		s the Sampled	I Aroa		
	No	I	rithin a Wetlar		No	
Wetland Hydrology Present? Yes ✓	No	"	idilii a medal		'''-	
Remarks:						
On-channel wetland.						
VEGETATION – Use scientific names of pl	ante					
VEGETATION COCCONTINUO NAMES OF PA		Domina	ant Indicator	Dominance Test wor	ksheet	
Tree Stratum (Plot size: 30')	<u>% Cover</u>	Specie	s? Status	Number of Dominant		
1. Ulmus crassifolia	30	Yes	FAC	That Are OBL, FACW	or FAC	
2				(excluding FAC-):	6	(A)
3				Total Number of Dom	_	
4				Species Across All St	rata: 6	(B)
15!	30	= Total (Cover	Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size: 15') 1. Sesbania drummondii	5	Yes	FACW	That Are OBL, FACW	, or FAC: 10	00 (A/B)
				Prevalence Index wo	rksheet:	
2				Total % Cover of:	M	ultiply by:
3. 4.				OBL species	x1=	
5.				FACW species	x 2 =	
0	5	= Total 6	Cover	FAC species	x 3 =	
Herb Stratum (Plot size: 5'		rour.		FACU species	x 4 =	
1. Iva annua	20	No	FAC	UPL species	x5=	
2. Persicaria hydropiper	45	Yes	OBL	Column Totals:	(A)	(B)
3. Cyperus polystachyos	25	Yes	FACW	Prevalence Inde	v = B/A =	
4. Eleocharis compressa	30	Yes	OBL	Hydrophytic Vegetat		
5				1 - Rapid Test for		
6				✓ 2 Dominance Te		ogotation.
7				3 - Prevalence Inc		
8				4 - Morphological		Provide supporting
9.				data in Remar	ks or on a sepa	arate sheet)
10				Problematic Hydr	ophytic Vegeta	ition ¹ (Explain)
Woody Vine Stratum (Plot size: 30'	120	= Total (Cover	¹ Indicators of hydric se	oil and wetland	l hydrology must
1. Smilax rotundifolia	5	Yes	FAC	be present, unless dis		
2.				Hydrophytic		
	5	= Total	Cover	Vegetation		_
% Bare Ground in Herb Stratum				Present? Y	es N	10
Remarks:						
Trees at edge of depression.						

SOIL Sampling Point: T20-DP3

Depth	Matrix			lox Feature		or comm	m the absence of i	tuicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-1	10 YR 5/2	90	5 YR 5/8	10	<u>C</u>	M/PL	Clay/Sandy Clay	
1-5	10 YR 4/1	55	5 YR 5/8	45	С	M/PL	Clay	
	-							
			-					
¹ Type: C=C	oncentration, D=D	epletion, RM	1=Reduced Matrix, 0	S=Covere	d or Coat	ed Sand G	Frains. ² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (App	licable to al	LRRs, unless oth	erwise no	ted.)			Problematic Hydric Soils ³ :
Histosol	(A1)			Gleyed M			1 cm Muck	(A9) (LRR I, J)
	pipedon (A2)		-	Redox (S				rie Redox (A16) (LRR F, G, H)
	istic (A3)			ed Matrix (Mucky Mi				ce (S7) (LRR G)
	en Sulfide (A4) d Layers (A5) (LRI	2 F)		Gleyed M	\ /			Depressions (F16) outside of MLRA 72 & 73)
	uck (A9) (LRR F, C		✓ Deplet	-			Reduced V	•
	d Below Dark Surf			Dark Surf				t Material (TF2)
Thick Da	ark Surface (A12)		Deplet	ed Dark Si	urface (F7)		w Dark Surface (TF12)
	lucky Mineral (S1)			Depression				lain in Remarks)
	Mucky Peat or Pea							drophytic vegetation and
5 cm MI	icky Peat or Peat	(53) (LRR F) (N/I	LRA 72 &	73 OT LRI	к н)	•	drology must be present, urbed or problematic.
Restrictive	Layer (if present)	:					dilicas dist	arbed of problematic.
Type: Co								
Depth (in							Hydric Soil Pres	sent? Yes ✓ No
Remarks:	,				_		,	
romamor								
								
IYDROLO	GY							
Wetland Hy	drology Indicator	s:					<u>. </u>	 -
Primary India	cators (minimum o	f one require	d; check all that app	oly)			Secondary In	dicators (minimum of two required)
Surface	Water (A1)		Salt Crus	t (B11)			✓ Surface	Soil Cracks (B6)
High Wa	iter Table (A2)		Aquatic I	nvertebrate	es (B13)		Sparsely	Vegetated Concave Surface (B8)
Saturation			Hydroger				✓ Drainage	Patterns (B10)
Water M			Dry-Seas					Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		Oxidized			ing Roots		,
Drift Dep			,	not tilled)				Burrows (C8)
	at or Crust (B4)			of Reduce	,	4)		n Visible on Aerial Imagery (C9)
Iron Dep			Thin Muc					phic Position (D2)
	on Visible on Aeria	5 , .	37) Other (E)	plain in Re	emarks)			itral Test (D5)
	tained Leaves (B9)					Frost-He	ave Hummocks (D7) (LRR F)
Field Obser		V	N= -/- D=-#- (1					
Surface Water			No V Depth (in			ľ		
Water Table			No ✓ Depth (ir					
Saturation Pr (includes car		Yes	No ✓ Depth (in	nches):		_ Wet	land Hydrology Pre	esent? Yes ✓ No
		m gauge, m	onitoring well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:	- during the state of							
On-channel	wetland.							



Data Point 1 Post Oak Woods



Data Point 1
Post Oak Woods



Data Point 2 Lacustrine Fringe Wetlands



Data Point 2 Lacustrine Fringe Wetlands



Data Point 2 Lacustrine Fringe Wetlands



Data Point 3 Emergent Wetlands

T20 - Page 2



Data Point 3
Emergent Wetlands



Data Point 3 Emergent Wetlands

THIS PAGE LEFT BLANK INTENTIONALLY

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: 130 Environmental Park		CBVIC	ounty	Lockha	rt/Caldwell	Sampli	ina Data:	07/8/20	013
Applicant/Owner: 130 Environmental Park					State: TX				
Investigator(s): Troegle, Josh & Littleton, E						Sampii	ng Folin.		·
Landform (hillslope, terrace, etc.): Hillslope								(0.0)	2 /
				•	. ,				
Subregion (LRR): J - Southwestern Prairie								um: NAL	7 83
Soil Map Unit Name: WgC - Wilson gravelly						_			
Are climatic / hydrologic conditions on the site type	pical for this time of year	ar? Ye							
Are Vegetation, Soil, or Hydrology	y significantly	disturt	oed?	Are '	"Normal Circumstan	ces" present?	Yes <u></u> ✓	No	,
Are Vegetation, Soil, or Hydrolog	y naturally pro	blema	tic?	(If ne	eeded, explain any a	nswers in Re	marks.)		
SUMMARY OF FINDINGS - Attach s	ite map showing	sam	plin	g point l	ocations, trans	ects, impo	rtant f	eatures	s, etc.
Hydrophytic Vegetation Present? Yes	No <u>√</u>								
	No <u>✓</u>			e Sampled			1		
Wetland Hydrology Present? Yes _	No <u></u>		with	in a Wetlar	na? Yes	N	• <u>▼</u>	_	
Remarks:									
VEGETATION – Use scientific names	<u> </u>								
Tree Stratum (Plot size: 30')	Absolute _% Cover			Indicator Status	Dominance Test				
1					Number of Domini That Are OBL, FA				
2.					(excluding FAC-):		1		(A)
3.					Total Number of D	ominant			
4					Species Across A		4		(B)
			al Cov	er	Percent of Domina	ant Species			
Sapling/Shrub Stratum (Plot size: 15')				That Are OBL, FA		25		(A/B)
1. Prosopis glandulosa	15	Yes		FACU	Prevalence Index	worksheet			
2. Mahonia trifoliolata	$\frac{2}{30}$	No		NI	Total % Cove			dy by:	
3. Castela erecta		Yes		NI	OBL species _				
4					FACW species _				
5	47				FAC species _				
Herb Stratum (Plot size: 5')		= 106	ai Cov	er er	FACU species _				
1. Monarda citriodora	10	No		NI	UPL species _	>	(5 = <u></u>		
2. Coreopsis tinctoria	35	Yes		FAC	Column Totals:	(A)		_ (B)
3. Nassella leucotricha	25	Yes		NI	Brown laws a				
4					Hydrophytic Veg	ndex = B/A =			
5					1 - Rapid Tes			tation	
6					2 - Dominanc		-	tation	
7.					3 - Prevalence				
8					4 - Morpholog			vide sunn	ortina
9.					data in Re	marks or on a	separate	e sheet)	orting
10					Problematic H	lydrophytic Ve	egetation	¹ (Explain	1)
Woody Vine Stratum (Plot size: 30'	70	= Tota	al Çov	er er	¹ Indicators of hydr	ic soil and we	fland hvr	drology m	uist
1					be present, unless				
2.	-				Hydrophytic				
			al Cov	/er	Vegetation			,	
% Bare Ground in Herb Stratum 60					Present?	Yes	_ No_ <u>v</u>	<u>/</u>	
Remarks:				-	-				

US Army Corps of Engineers

Sampling Point: T21-DP1 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) % Type¹ Loc² Texture ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ___ Sandy Gleyed Matrix (S4) Histosol (A1) ___ 1 cm Muck (A9) (LRR I, J) ___ Histic Epipedon (A2) ___ Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) ___ Black Histic (A3) ___ Stripped Matrix (S6) ___ Dark Surface (S7) (LRR G) ___ Hydrogen Sulfide (A4) ___ Loamy Mucky Mineral (F1) High Plains Depressions (F16) ___ Stratified Layers (A5) (LRR F) ___ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) ___ Depleted Matrix (F3) ___ 1 cm Muck (A9) (LRR F, G, H) Reduced Verlic (F18) ___ Redox Dark Surface (F6) __ Depleted Below Dark Surface (A11) Red Parent Material (TF2) ___ Depleted Dark Surface (F7) ___ Very Shallow Dark Surface (TF12) Thick Dark Surface (A12) ___ Sandy Mucky Mineral (S1) __ Redox Depressions (F8) Other (Explain in Remarks) ___ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) ___ High Plains Depressions (F16) 3Indicators of hydrophytic vegetation and 5 cm Mucky Peat or Peat (S3) (LRR F) wetland hydrology must be present, (MLRA 72 & 73 of LRR H) unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ✓ Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) __ Salt Crust (B11) Surface Soil Cracks (B6) ___ High Water Table (A2) ___ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) __ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) ___ Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) ___ Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) __ FAC-Neutral Test (D5) Water-Stained Leaves (B9) ___ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes ____ No ✓ Depth (inches): ___ Surface Water Present? Yes ____ No ✓ Depth (inches): ____ Water Table Present? Yes ____ No ✓ Depth (inches): _____ Saturation Present? Wetland Hydrology Present? Yes ____ No ✓

(includes capillary fringe)

Remarks:

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



Data Point 1 Mesquite Grassland Mosaic



Data Point 1 Mesquite Grassland Mosaic

THIS PAGE LEFT BLANK INTENTIONALLY

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: 130 Environmental	Park		Citv/Co	ountv: L	_ockhai	rt/Caldwell	Sam	olina Date:	07/8/2013
Applicant/Owner: 130 Environme						State: TX		-	
Investigator(s): Troegle, Josh & I		-						P g . e	
Landform (hillslope, terrace, etc.): H						-	onvex	Slo	nne (%) 2-4
Subregion (LRR): J - Southweste									
Soil Map Unit Name: FeE - Fett gr						NWI			
Are climatic / hydrologic conditions or									diabio
								-	,
Are Vegetation, Soil,						'Normal Circumsta			No
Are Vegetation, Soil,	or Hydrology	naturally pro	oblemat	tic'?	(If ne	eeded, explain any	answers in F	Remarks.)	
SUMMARY OF FINDINGS -	Attach site map	showing	samı	pling	point l	ocations, tran	sects, imp	ortant fe	etures, et
Hydrophytic Vegetation Present?	Yes	No ✓							
Hydric Soil Present?	Yes				Sampled a Wetlar		s	No J	
Wetland Hydrology Present?	Yes	No <u></u> ✓		within	a wetiai	na? Ye	:5	NO <u>*</u>	_
Remarks:								_	
LEGETATION II : 476		4							
VEGETATION – Use scientif	ic names of pla					.,			
Tree Stratum (Plot size: 30'	,	Absolute		inant In		Dominance Te	st worksheet	:	
0		<u>% Cover</u> 75	Yes		ACU	Number of Dom			
					100	That Are OBL, I (excluding FAC		1	(A)
2									
3						Total Number o Species Across		4	(B)
4			- Tota	L Covor					(5)
Sapling/Shrub Stratum (Plot size:	15')		_ TOLA	II COVEI		Percent of Dom That Are OBL, f			(A/B
1. Ulmus crassifolia		10	Yes	F.	AC				
2. Ligustrum sinense		10	Yes	<u>U</u>	IPL	Prevalence Ind			
3							ver of:		ly by:
4						OBL species			
5						FACW species			
District Office of State of St		20	= Tota	l Cover		FAC species FACU species			
Herb Stratum (Plot size: 5' 1 Dichanthelium linearifolium)	10	Yes	N	n				
2	•					Column Totals:			
3.						oojanii rotajo.		(/)	(D)
4.							e Index = B/A		
5.						Hydrophytic Vo	egetation Ind	icators:	
6						1 - Rapid T	est for Hydrop	hytic Veget	tation
7.						2 - Domina			
8.						3 - Prevaler			
9.						4 - Morphol	logical Adapta Remarks or or	itions ¹ (Prov	/ide supportin
10						Problemation		•	•
i								_	
Woody Vine Stratum (Plot size: 30						¹ Indicators of hy be present, unle			
1	······································					be present, unit		—————	niio,
2						Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 85	1	-	= Tota	d Cover		Present?	Yes	No_ <u>√</u>	<u>′ </u>
Remarks:	<u> </u>					1			
Tromana.									

Sampling Point: T22-DP1 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Color (moist) % Type¹ Loc² Texture (inches) ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ___ Sandy Gleyed Matrix (S4) ___ 1 cm Muck (A9) (LRR I, J) Histosol (A1) ___ Histic Epipedon (A2) Sandy Redox (\$5) Coast Prairie Redox (A16) (LRR F, G, H) ___ Stripped Matrix (\$6) ___ Dark Surface (S7) (LRR G) ___ Black Histic (A3) ___ High Plains Depressions (F16) ___ Hydrogen Sulfide (A4) ___ Loamy Mucky Mineral (F1) ___ Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR F) (LRR H outside of MLRA 72 & 73) ___ 1 cm Muck (A9) (LRR F, G, H) ___ Depleted Matrix (F3) Reduced Vertic (F18) ___ Depleted Below Dark Surface (A11) ___ Redox Dark Surface (F6) Red Parent Material (TF2) ___ Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Thick Dark Surface (A12) __ Redox Depressions (F8) Sandy Mucky Mineral (S1) Other (Explain in Remarks) ___ High Plains Depressions (F16) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) 3Indicators of hydrophytic vegetation and __ 5 cm Mucky Peat or Peat (\$3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: _ Depth (inches): Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) ___ Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Hydrogen Sulfide Odor (C1) ___ Saturation (A3) _ Drainage Patterns (B10) Water Marks (B1) ___ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) ___ Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) ___ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ___ FAC-Neutral Test (D5) Water-Stained Leaves (B9) __ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes No ✓ Depth (inches): Surface Water Present? Yes ____ No ✓ Depth (inches): _____

US Army Corps of Engineers

Water Table Present?

(includes capillary fringe)

Saturation Present?

Remarks:

Wetland Hydrology Present? Yes No ✓

Yes _____ No ✓ Depth (inches): _____

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



Data Point 1 Post Oak Woods



Data Point 1 Post Oak Woods

THIS PAGE LEFT BLANK INTENTIONALLY

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: 130 Environmental Park		City/County	y: Lockha	rt/Caldwell	Sampling Date: 0	7/10/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX	Sampling Point:	√23-DP1
Investigator(s): Troegle, Josh & Littleton, Brandy						
Landform (hillslope, terrace, etc.): Floodplain			-		ive Slop	e (%): 0-1
Subregion (LRR): J - Southwestern Prairies				Long: -97.67		
Soil Map Unit Name: FeE - Fett gravelly soils, 1-1:				NWI classil		
Are climatic / hydrologic conditions on the site typical for			_			
Are Vegetation, Soil, or Hydrology	-			"Normal Circumstances"	·	No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ		NO
				-	•	
SUMMARY OF FINDINGS – Attach site ma	p showing	samplir	ng point l	ocations, transect	:s, important fea	itures, etc.
Hydrophytic Vegetation Present? Yes	No √	1- 4	h - CI			
Hydric Soil Present? Yes ✓	No		he Sampled hin a Wetlar		No_√	
Hydric Soil Present? Yes ✓ Wetland Hydrology Present? Yes	No <u></u> ✓	With	nin a vvetiai	nd? Tes	NO <u>*</u>	
Remarks:		······				
VECETATION III i- natific manner of -la			·			
VEGETATION – Use scientific names of plants		Danis	4 lastinatas	Dominana Tastus	al-all 4.	
Tree Stratum (Plot size: 30'	Absolute % Cover		t Indicator Status	Number of Dominant		
1. Ulmus crassifolia	40	Yes	FAC	That Are OBL, FACW	, or FAC	
2. Quercus stellata	20	Yes	FACU	(excluding FAC-);	3	(A)
3				Total Number of Dom		
4			- 	Species Across All St	rata: 6	(B)
2	60	= Total Co	over	Percent of Dominant		
Sapling/Shrub Stratum (Plot size: 15') 1. Ulmus crassifolia	20	Yes	FAC	That Are OBL, FACW	, or FAC: 50	(A/B)
				Prevalence Index wo	orksheet:	
2				Total % Cover of	:Multiply	by:
4				OBL species	x 1 =	
5				FACW species		
	20	= Total Co	over	FAC species		
Herb Stratum (Plot size: 5'			T. 6	FACU species		
1. Iva annua	35	Yes	FAC	UPL species		
2. Rottboellia cochinchinensis 3. Ambrosia artemisiifolia	90	Yes No	FACU FACU	Column Totals:	(A)	(B)
3. Amorosia artemistyotta 4. Schizachyrium scoparium	2	No	FACU	Prevalence Inde	ex = B/A =	
''				Hydrophytic Vegetat	tion Indicators:	-
5				1 - Rapid Test for	r Hydrophytic Vegetaf	tion
6 7				2 - Dominance Te	est is >50%	
8				3 - Prevalence In		
9				4 - Morphological	l Adaptations¹ (Provid rks or on a separate s	le supporting
10.				Problematic Hydr		,
	142	= Total Co	over			
Woody Vine Stratum (Plot size: 30'	2	17	EVOIT	¹ Indicators of hydric s be present, unless dis		
1. Smilax bona-nox	5	Yes	FACU_	be present, unless the	—————————	·
2	5			Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 10	3	= Total Co	over	Present? Y	′es No <u>√</u>	
Remarks:						

Sampling Point: T23-DP1 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color (moist) Type¹ Loc² ___% Texture 0-4 10 YR 5/2 60 10 YR 5/8 20 Sandy clay 10 YR 7/1 20 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) ___ 1 cm Muck (A9) (LRR I, J) ___ Histic Epipedon (A2) __ Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) ___ Dark Surface (S7) (LRR G) Black Histic (A3) Stripped Matrix (S6) ___ Hydrogen Sulfide (A4) ___ Loamy Mucky Mineral (F1) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Stratified Layers (A5) (LRR F) Loamy Gleyed Matrix (F2) ___ 1 cm Muck (A9) (LRR F, G, H) ✓ Depleted Matrix (F3) Reduced Vertic (F18) ___ Depleted Below Dark Surface (A11) ___ Redox Dark Surface (F6) Red Parent Material (TF2) ___ Depleted Dark Surface (F7) _ Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Other (Explain in Remarks) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) ___ High Plains Depressions (F16) ³indicators of hydrophytic vegetation and ___ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Cobble Depth (inches): 4 Hydric Soil Present? Yes ✓ No_ Remarks: **HYDROLOGY**

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Aquatic Invertebrates (B13) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9)	 Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3)
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) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecting the provided provided in the provided provided in the provided	Wetland Hydrology Present? Yes No _√ tions), if available:

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: 130 Environmental Park		City/Co	ounty: Lockh	art/Caldwell	Sampling Date: 07/10/2	2013			
Applicant/Owner: 130 Environmental Park, LLC				State: TX					
Investigator(s): Troegle, Josh & Littleton, Brandyn Section, Township, Range: NA									
Landform (hillslope, terrace, etc.): Floodplain		Local	relief (concave	e, convex, none); Concav	/e Slope (%):	0-1			
Subregion (LRR): J - Southwestern Prairies									
Soil Map Unit Name: FeE - Fett gravelly soils, 1-12									
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No									
Are Vegetation, Soil, or Hydrology									
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.									
		1 001117	pinig point		, important reatures	, 610.			
Hydrophytic Vegetation Present? Yes ✓ Yes			Is the Sample	ed Area					
Hydric Soil Present? Yes ✓ Metland Hydrology Present? Yes N	No		within a Wetl	and? Yes	No <u>✓</u>				
Wetland Hydrology Present? Yes N	NO_\								
Trainer.									
VEGETATION – Use scientific names of plan									
Tree Stratum (Plot size: 30'	Absolute % Cover		inant Indicator ies? <u>Status</u>						
1. Ulmus crassifolia	60	Yes	FAC	 Number of Dominant S That Are OBL, FACW, 					
2.				(excluding FAC-):	4	(A)			
3				Total Number of Domir	nant				
4				Species Across All Stra	ıta: 4	(B)			
151	60	= Tota	I Cover	Percent of Dominant S					
Sapling/Shrub Stratum (Plot size: 15')				That Are OBL, FACW,	or FAC: 100	(A/B)			
1				Prevalence Index wor	ksheet:				
3				Total % Cover of:	Multiply by:	_			
4				OBL species	x1=	_			
5					x 2 =	_			
51		= Tota	l Cover		x 3 =				
Herb Stratum (Plot size: 5')	50	Yes	FAC	LIDI ti	x 4 =	-			
1. Iva annua 2. Elymus virginicus	30	Yes	FAC	UPL species		- (D)			
3 Cyperus setigerus	50	Yes	FAC	_ Column Totals	(A)	- (B)			
4				Prevalence Index	= B/A =	_			
5				Hydrophytic Vegetati	on Indicators:				
6				1 - Rapid Test for I					
7				_					
8				3 - Prevalence Ind					
9				4 - Morphological / — data in Remark	Adaptations ¹ (Provide supp s or on a separate sheet)	orting			
10					phytic Vegetation ¹ (Explain	1)			
Woody Vine Stratum (Plot size: 30'	130	= Tota	l Cover	1 Indicators of hydric so	il and wetland hydrology m	wat			
1				be present, unless dist	urbed or problematic.	นธเ			
2				_ Hydrophytic					
		= Tota	I Cover	Vegetation	,				
% Bare Ground in Herb Stratum 35				Present? Ye	s <u>√</u> No				
Remarks:									

SOIL Sampling Point: T23-DP2

Profile Des	cription: (Descri	be to the dep				or confir	m the absence of in	dicators.)		
Depth				Loc ²	T	Domestic				
(inches) 0-8	Color (moist) 10 YR 2/1	98	Color (moist) 10 YR 4/6	<u>%</u> 2	Type ¹			Remarks		
0-0	10 11 2/1	30	10 11 4/0		<u> </u>	. <u>M</u>	Sandy clay			
ļ							 			
¹ Type: C=C	Concentration, D=0	Depletion, RM:	=Reduced Matrix, C	S=Covere	d or Coat	ed Sand G	Brains, ² Location	: PL=Pore Lining, M=Matrix.		
			LRRs, unless oth					roblematic Hydric Soils ³ :		
Histoso	I (A1)		Sandy	Gleyed Ma	atrix (S4)		1 cm Muck (A9) (LRR I, J)		
	Histic Epipedon (A2) Sandy Redox (S5)						Coast Prairie Redox (A16) (LRR F, G, H)			
_	listic (A3)			ed Matrix (S	,		Dark Surface (S7) (LRR G)			
	en Sulfide (A4)	D. E.\		Mucky Mi			High Plains Depressions (F16)			
1	d Layers (A5) (LR uck (A9) (LRR F, I			Gleyed M			(LRR H outside of MLRA 72 & 73)			
ı —	d Below Dark Sur	- /		ed Matrix (Dark Surfa			Reduced Vertic (F18) Red Parent Material (TF2)			
	ark Surface (A12)			ed Dark Su)	Very Shallow Dark Surface (TF12)			
. —	Mucky Mineral (S1			Depressio		,	Other (Explain in Remarks)			
2.5 cm l	Mucky Peat or Pe	at (S2) (LRR (5, H) High P	lains Depr	essions (F	16)		drophytic vegetation and		
5 cm Mi	ucky Peat or Peat	(S3) (LRR F)	(M	LRA 72 &	73 of LRF	₹ H)	wetland hydr	ology must be present,		
							unless distu	rbed or problematic.		
1	Layer (if present):								
Type: Cl								,		
Depth (in	iches): <u>°</u>						Hydric Soil Pres	ent? Yes <u>√</u> No		
Remarks:										
HYDROLO	GY				·					
Wetland Hy	drology Indicato	rs:						· · · · · · · · · · · · · · · · · · ·		
_			f; check all that app	alv)			Secondary Ind	licators (minimum of two required)		
	Water (A1)	n one required	Salt Crus			· · ·		oil Cracks (B6)		
	ater Table (A2)			vertebrate	e (B13)					
Saturati				Sulfide O			Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)			
	farks (B1)					ı	-			
Water Marks (B1)										
—	posits (B3)			not tilled)			Crayfish E	•		
	at or Crust (B4)		Presence			4)		Visible on Aerial Imagery (C9)		
Iron Dep	, ,		Thin Muc	k Surface ((C7)	,		nic Position (D2)		
	on Visible on Aeri	al Imagery (B7					FAC-Neut	. ,		
	stained Leaves (B9							ve Hummocks (D7) (LRR F)		
Field Obser	vations:						••••			
Surface Wat	er Present?	Yes I	No <u>✓</u> Depth (ir	nches):						
Water Table	Present?		No ✓ Depth (ir							
Saturation P			√ Depth (ir				land Hydrology Pres	sent? Yes No √		
(includes car	pillary fringe)					*				
Describe Re	corded Data (strea	am gauge, mo	nitoring well, aerial	photos, pr	evious ins	pections)	, if available:			
Remarks:										

TRANSECT 23 SITE PHOTOGRAPHS



Data Point 1
Riparian Woods (Cedar Elm/Oak)



Data Point 1
Riparian Woods (Cedar Elm/Oak)



Data Point 1 Riparian Woods (Cedar Elm/Oak)

TRANSECT 23 SITE PHOTOGRAPHS



Data Point 2 Riparian Woods (Cedar Elm/Oak)



Data Point 2 Riparian Woods (Cedar Elm/Oak)

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: 130 Environmental Park		City/Co	ounty: L	_ockhar	rt/Caldwell Sampling Date: 07/09/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX Sampling Point; T25-DP1
Investigator(s): Troegle, Josh & Littleton, Brandyr					
Landform (hillslope, terrace, etc.): None					
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: FeE - Fett gravelly soils, 1-12					
Are climatic / hydrologic conditions on the site typical for the					
Are Vegetation, Soil, or Hydrology					'Normal Circumstances" present? Yes ✓ No
Are Vegetation, Soil, or Hydrology	naturally pro	blema	atic?	(If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling	point le	ocations, transects, important features, etc.
Hydrophylic Vegetation Present? Yes	No ✓				
Hydric Soil Present? Yes				Sampled	,
Wetland Hydrology Present? Yes	No <u>√</u>		WIEDIN	a Wetlar	nd? tes No_ <u>▼</u>
Remarks:					
VEGETATION – Use scientific names of pla	nte				
VEGETATION - Ose scientific flames of pla	Absolute	Dom	ninant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30'	% Cover				Number of Dominant Species
1. Quercus stellata	60	Yes	F	ACU	That Are OBL, FACW, or FAC
2. Ulmus crassifolia	25	Yes	F	AC	(excluding FAC-): 2 (A)
3. Prosopis glandulosa		No	F	ACU	Total Number of Dominant
4					Species Across All Strata: 6 (B)
0 11 10 1 10 1 151	95	= Tota	al Cover		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15') 1. Ulmus crassifolia	5	Yes	F	'AC	That Are OBL, FACW, or FAC: 33 (A/B)
1. Ulmus crassifolia 2. Diospyros texana	5	Yes		II .	Prevalence Index worksheet:
3					Total % Cover of: Multiply by:
4					OBL species x 1 =
5.		-			FACW species x 2 =
	10	= Tota	al Cover		FAC species x 3 =
Herb Stratum (Plot size: 5'			_		FACU species x 4 =
1. Dichanthelium linearifolium		Yes	N		UPL species x 5 =
2. Cylindropuntia leptocaulis	- ⁵ / ₅	No No		ACU	Column Totals: (A) (B)
3. Schizachyrium scoparium 4 Carex planostachys	15	No		II	Prevalence Index = B/A =
· · · · · · · · · · · · · · · · · · ·					Hydrophytic Vegetation Indicators:
5					1 - Rapid Test for Hydrophylic Vegetation
6					2 - Dominance Test is >50%
7					3 - Prevalence Index is ≤3.0 ¹
9.					4 - Morphological Adaptations ¹ (Provide supporting
10		-			data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
	85	= Tota	al Cover		
Woody Vine Stratum (Plot size: 30'					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Smilax bona-nox	15	Yes	F	ACU	be present, unless disturbed or problematic.
2					Hydrophytic Vegetation
% Bare Ground in Herb Stratum 60	15	= Tota	al Cover		Present? Yes No
Remarks:	******				
US Army Corps of Engineers					Great Plains – Version 2.0

Sampling Point: T25-DP1 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix Color (moist) Color (moist) % Type¹ Loc² Texture (inches) ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ___ Sandy Gleyed Matrix (S4) Histosol (A1) ___ 1 cm Muck (A9) (LRR I, J) ___ Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR F, G, H) Sandy Redox (S5) ___ Stripped Matrix (S6) ___ Black Histic (A3) ___ Dark Surface (S7) (LRR G) ___ Hydrogen Sulfide (A4) ___ Loamy Mucky Mineral (F1) High Plains Depressions (F16) ___ Stratified Layers (A5) (LRR F) ___ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) ___ Depleted Matrix (F3) ___ 1 cm Muck (A9) (LRR F, G, H) Reduced Vertic (F18) ___ Redox Dark Surface (F6) ___ Depleted Below Dark Surface (A11) Red Parent Material (TF2) ___ Thick Dark Surface (A12) ___ Depleted Dark Surface (F7) ___ Very Shallow Dark Surface (TF12) ___ Redox Depressions (F8) __ Sandy Mucky Mineral (S1) Other (Explain in Remarks) ___ High Plains Depressions (F16) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) 3Indicators of hydrophytic vegetation and __ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: _ Depth (inches): Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) ___ Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) ___ Hydrogen Sulfide Odor (C1) __ Saturation (A3) _ Drainage Patterns (B10) ___ Water Marks (B1) ___ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) ___ Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) (where tilled) ___ Drift Deposits (B3) (where not tilled) ___ Crayfish Burrows (C8) ___ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) ___ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ___ FAC-Neutral Test (D5) Water-Stained Leaves (B9) __ Frost-Heave Hummocks (D7) (LRR F) Field Observations:

Water-Stained Leaves (B9)

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)

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

Remarks:

TRANSECT 25 SITE PHOTOGRAPHS



Data Point 1
Post Oak Woods



Data Point 1 Post Oak Woods

THIS PAGE LEFT BLANK INTENTIONALLY

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: 130 Environmental Park		City/Cni	_{intv} . Lockha	rt/Caldwell	Sampling Date: (07/09/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandyn					, camping rount	
Landform (hillslope, terrace, etc.): Depression			•	- "	/e slor	op (%): 0 - 2
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: WgC - Wilson gravelly loam, 1						
Are climatic / hydrologic conditions on the site typical for thi						ilabic
						NI-
Are Vegetation, Soil, or Hydrology §				"Normal Circumstances"		No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe	,	
SUMMARY OF FINDINGS – Attach site map	showing	samp	ling point l	ocations, transects	s, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes ✓ N	10		a tha Camalas	d Auga		
Hydric Soil Present? Yes ✓ N			s the Sampled within a Wetla		No	
Wetland Hydrology Present? Yes ✓ N	10		THE TYPICAL			
Remarks:						
Fringe wetland around pond.						
VEGETATION – Use scientific names of plan	ıts.					
201	Absolute		nant Indicator	Dominance Test worl	(sheet:	_
Tree Stratum (Plot size: 30'	% Cover 5	Specie Yes	es? Status FAC	Number of Dominant S	pecies	
1. Ulmus crassifolia 2. Prosopis glandulosa	- 5	Yes	FACU	That Are OBL, FACW, (excluding FAC-):	or FAC	(A)
	- -	- 105		,		(7.7)
3				Total Number of Domir Species Across Ail Stra		(B)
7	10	= Total	Cover	Percent of Dominant S		、
Sapling/Shrub Stratum (Plot size: 15')				That Are OBL, FACW,		(A/B)
1. Ulmus crassifolia	_ 2	No	FAC	Prevalence Index wo	rkahaat:	
2. Sesbania drummondii	_ 45	Yes	FACW FACU	Total % Cover of:		, bye
3. Prosopis glandulosa		Yes	FACU	OBL species		
4				FACW species		
5	49	= Total	Cover	FAC species		
Herb Stratum (Plot size: 5')		_ Total	COVE	FACU species		
1. Cyperus polystachyos	60	Yes	FACW	UPL species		
2. Persicaria hydropiper	_ 35	Yes	OBL	Column Totals:	(A)	(B)
3. <u>Iva annua</u>	_ 15	No	FAC	Prevalence Index	c = B/A =	
4				Hydrophytic Vegetati		<u> </u>
5				1 - Rapid Test for		ition
6				✓ 2 - Dominance Te	st is >50%	
7				3 - Prevalence Ind	ex is ≤3.0 ¹	
9.				4 - Morphological /	Adaptations ¹ (Provid	de supporting
10.					s or on a separate s	,
		= Total	Cover	Problematic Hydro	_	. , ,
Woody Vine Stratum (Plot size: 30'				¹ Indicators of hydric so be present, unless dist	il and wetland hydro	ology must
1						
2				Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 40		= Total	Cover	Present? Ye	es_ <u>√</u> No	
Remarks:						

Sampling Point: T26-DP1 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Color (moist) (inches) Type¹ Loc² Texture % 0-1 10 YR 4/1 100 Silty clay 1-12 55 GY 45 5 YR 4/6 30 С M/PL Silty clay 65 GY 25 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ___ Sandy Gleyed Matrix (S4) Histosol (A1) _ 1 cm Muck (A9) (LRR I, J) ___ Histic Epipedon (A2) ___ Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) ___ Black Histic (A3) __ Stripped Matrix (S6) Dark Surface (S7) (LRR G) ___ Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR F) ✓ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) ___ 1 cm Muck (A9) (LRR F, G, H) ___ Depleted Matrix (F3) Reduced Vertic (F18) ___ Depleted Below Dark Surface (A11) ___ Redox Dark Surface (F6) Red Parent Material (TF2) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Other (Explain in Remarks) ___ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) ___ High Plains Depressions (F16) ³Indicators of hydrophytic vegetation and ___ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: _ Depth (inches): Hydric Soil Present? Yes ✓ Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) ✓ Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) ___ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) ✓ Saturation (A3) __ Hydrogen Sulfide Odor (C1) ___ Drainage Patterns (B10) ___ Dry-Season Water Table (C2) __ Water Marks (B1) __ Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) ___ Drift Deposits (B3) (where not tilled) ___ Crayfish Burrows (C8) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Saturation Visible on Aerial Imagery (C9) ✓ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) ✓ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ___ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes <u>✓</u> No ____ Depth (inches): 0" to 6" Surface Water Present? Water Table Present? Saturation Present? Wetland Hydrology Present? Yes ✓ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: 130 Environmental Park		ounty: Lockhart/Caldwell Sampling Date: 07/09				
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandy						**
Landform (hillslope, terrace, etc.): Depression/Slope	-				e Slope (%)	. 0-1
Subregion (LRR): J - Southwestern Prairies				Long: -97.67		
Soil Map Unit Name: WgC - Wilson gravelly loam,				NWI classific		
Are climatic / hydrologic conditions on the site typical for t			_		•	
Are Vegetation, Soil, or Hydrology				'Normal Circumstances" p		lo.
Are Vegetation, Soil, or Hydrology				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site ma					•	es, etc.
Lindrants dia Vanatatian Bassanta	No			· · · · · · · · · · · · · · · · · · ·		
Hydrophytic Vegetation Present? Hydric Soil Present? Yes ✓ Yes			the Sampled			
Wetland Hydrology Present? Yes ✓	No	wit	thin a Wetlar	nd? Yes_ <u>▼</u>	No	
Remarks:				· <u>-</u>		
VEGETATION – Use scientific names of pla	ants.					
Tree Stratum (Plot size: 30'	Absolute		nt Indicator	Dominance Test work		
1. Ulmus crassifolia		Yes	? Status FAC	Number of Dominant S That Are OBL, FACW,		
2				(excluding FAC+):	4	(A)
3				Total Number of Domin	ant .	
4				Species Across All Stra	4	(B)
	4.5	= Total Co	over	Percent of Dominant Sp	neries	
Sapling/Shrub Stratum (Plot size: 15'	20	37	E.C	That Are OBL, FACW,		(A/B)
1. Ulmus crassifolia		Yes	FAC	Prevalence Index wor	ksheet:	
2					Multiply by:	
3					x1=	
5					x 2 =	
J	30	= Total Co	over	FAC species	x 3 =	
Herb Stratum (Plot size: 5')				4	x 4 =	_
1. Eleocharis acicularis		Yes	OBL		x5=	_
2. Iva annua		Yes	FAC FAC	Column Totals:	(A)	_ (B)
3. Rhynchospora	Present			Prevalence Index	= B/A =	
4. Phanopyrum gymnocarpon	Present			Hydrophytic Vegetation		
5				1 - Rapid Test for H		
6				✓ 2 - Dominance Tes	t is >50%	
7				3 - Prevalence Inde	ex is ≤3.0 ¹	
8 9				4 ~ Morphological A	Adaptations¹ (Provide sup	porting
10					s or on a separate sheet)	
		= Total Co	over		phylic Vegetation ¹ (Expla	
Woody Vine Stratum (Plot size: 30')				¹ Indicators of hydric soi be present, unless distu	l and wetland hydrology i urbed or problematic.	must
2.				Hydrophytic		_
			over	Vegetation	a √ N=	
% Bare Ground in Herb Stratum 0				Present? Ye	s No	
Remarks:						ļ
						ļ

SOIL Sampling Point: T26-DP2

Profile Des	cription: (Describ	e to the de	pth needed to docu	ment the	indicator	or confir	m the absence of i	ndicators.)
Depth	Matrix			x Featur				
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks
0-8	10 YR 4/1	60	5 YR 4/6	40	_ <u>C _</u>	M/PL	Clay	
8-16	10 YR 5/6	60						
	10 YR 5/1		10 YR 4/6	15	_ _ _	M/PL	Clay	
l ———							 	
					<u>.</u>			
17			I-D-du-d Matic				21	
			I=Reduced Matrix, C: I LRRs, unless othe			ed Sand G		n: PL=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
1 -		icable to al			•			-
Histosol	oipedon (A2)			Redox (S	fatrix (S4)			(A9) (LRR I, J) rie Redox (A16) (LRR F, G, H)
Black Hi				d Matrix (-			ce (S7) (LRR G)
	n Sulfide (A4)				lineral (F1)			Depressions (F16)
1 —	Layers (A5) (LRR	t F)			/atrix (F2)			outside of MLRA 72 & 73)
	ick (A9) (LRR F, G		✓ Deplete	d Matrix	(F3)		Reduced V	
I — ·	d Below Dark Surfa	ice (A11)			face (F6)			t Material (TF2)
I —	ark Surface (A12)				Surface (F7)		ow Dark Surface (TF12)
	lucky Mineral (S1) Jucky Peat or Peat	(CO) /I BD		Depressi		14.0\		fain in Remarks)
. —	ricky Peat or Peat (— -		73 of LRF	,		ydrophytic vegetation and drology must be present,
5 6,11 1010	cky i eat of i eat (oo, (EIXIX I	(1012		75 OI LIKE	(11)		urbed or problematic.
Restrictive I	_ayer (if present):		, , , , , , , , , , , , , , , , , , , 				3.11000 0100	arboa of problematic.
Type:	, , ,							
1	ches):						Hydric Soil Pre	sent? Yes ✓ No
Remarks:	,		<u> </u>					
T tomano.								
HYDROLO	GY							
Wetland Hyd	drology Indicators	;:						
Primary India	ators (minimum of	one require	d; check all that appl	v)			Secondary In	dicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)				Soil Cracks (B6)
 High Wa	ter Table (A2)		Aquatic In		es (B13)			Vegetated Concave Surface (B8)
Saturation			Hydrogen					Patterns (B10)
Water M	arks (B1)		Dry-Seaso	n Water	Table (C2)		_	Rhizospheres on Living Roots (C3)
Sedimen	t Deposits (B2)		✓ Oxidized F	Rhizosph	eres on Liv	ing Roots		e tilled)
Drift Dep	osits (B3)		(where i	not tilled	l)		Crayfish	Burrows (C8)
Algal Ma	t or Crust (B4)		Presence	of Reduc	ed Iron (C	1)		on Visible on Aerial Imagery (C9)
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		✓ Geomor	phic Position (D2)
Inundatio	on Visible on Aerial	lmagery (E	7) Other (Exp	lain in R	emarks)		FAC-Net	utral Test (D5)
Water-St	ained Leaves (B9)						Frost-He	ave Hummocks (D7) (LRR F)
Field Observ	vations:		_				···-	
Surface Wate	er Present?	Yes	No V Depth (in	ches):		_		
Water Table			No ✓ Depth (inc					
Saturation Pr			No / Depth (inc				land Hydrology Pre	esent? Yes ✓ No
(includes cap	illary fringe)							
Describe Red	corded Data (strear	n gauge, m	onitoring well, aerial	onotos, p	revious ins	pections),	it available:	
Remarks:								

TRANSECT 26 SITE PHOTOGRAPHS



Data Point 1 Lacustrine Fringe Wetlands



Data Point 1 Lacustrine Fringe Wetlands



Data Point 1 Lacustrine Fringe Wetlands

TRANSECT 26 SITE PHOTOGRAPHS



Data Point 2 Emergent Wetlands



Data Point 2 Emergent Wetlands

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: 130 Environmental Park		Citv/Cou	pling Date: C	7/11/2013			
Applicant/Owner: 130 Environmental Park, LLC				State: TX			
Investigator(s): Troegle, Josh & Littleton, Brandyn						F9 . G	
Landform (hillstope, terrace, etc.): Floodplain			•	-	Concave	Slon	e (%)· 0-4
Subregion (LRR): J - Southwestern Prairies							
Soil Map Unit Name: FEE - Fett gravelly soils, 1-12				NWI			
Are climatic / hydrologic conditions on the site typical for th							110010
	=					•	
Are Vegetation, Soil, or Hydrology				'Normal Circumst			No
Are Vegetation, Soil, or Hydrology				eded, explain an			
SUMMARY OF FINDINGS – Attach site map	showing	samp	ling point l	ocations, trai	nsects, imp	portant fea	tures, etc.
Hydrophytic Vegetation Present? Yes ✓ N	No						
Hydric Soil Present? Yes ✓			s the Sampled		/	B.F	
Wetland Hydrology Present? Yes ✓	No	V	vithin a Wetlar	na? Y	es <u>√</u>	No	
Remarks:							
Adventitious roots on Salix nigra.							
VEGETATION – Use scientific names of plan	nte						
VEGETATION - Use scientific fiames of piar	Absolute	Domin	ant Indicator	Dominance Te	et workshoot		
Tree Stratum (Plot size: 30'			es? Status	Number of Don			
1				That Are OBL,	FACW, or FAC		
2				(excluding FAC	>-):	4	(A)
3				Total Number of		4	
4				Species Across	s All Strata:	4	(B)
Sapling/Shrub Stratum (Plot size: 15')		= Total	Cover	Percent of Dom			
1. Salix nigra	30	Yes	FACW	That Are OBL,	FACW, or FAC	D: 100	(A/B)
2. Ulmus crassifolia	10	Yes	FAC	Prevalence Inc	dex workshee	et:	
3. Sesbania drummondii	5	No	FACW	1	over of:		
4				OBL species			
5.			****	FACW species			
٤١	45	= Total	Cover	FAC species			
Herb Stratum (Plot size: 5')	75	Von	FACW	FACU species			
1. Eleocharis compressa 2. Persicaria hydropiper	- ⁷³	Yes No	OBL	UPL species		x 5 =	
2. Fersicaria nyaropiper 3. Iva annua	40	Yes	FAC	Column Totals:		(A)	(B)
3. Iva annua 4 Xanthium strumarium	10	No	FAC	Prevalend	ce Index = B/A	A =	
				Hydrophytic V	egetation Ind	licators:	
5				1 - Rapid T			tion
6				✓ 2 - Domina	ance Test is >5	50%	
8.				3 - Prevale			
9				4 - Morpho	ological Adapta Remarks or or	ations ¹ (Provid	le supporting
10.				Problemati			,
	145	= Total	Cover				, ,
Woody Vine Stratum (Plot size: 30')				¹ Indicators of h be present, unl			
1				be present, uni	ess disturped i	or problemati	G.
2				Hydrophytic			
% Bare Ground in Herb Stratum 10		= Total	Cover	Vegetation Present?	Yes <u></u> ✓	No	
% Bare Ground in Herb Stratum 10				<u> </u>	<u> </u>		

	scription: (Describe	to the depth	needed to docur	nent the	indicator	or confirm	n the absence	of indicators.)
Depth	<u>Matrix</u>		Redo	x Feature	es			
(inches)	Color (moist)	<u> %</u>	Color (moist)	%_	Type ¹ _	_Loc ²	Texture	Remarks
0-8	10 YR 2/1	75 5	YR 5/8	25	<u> </u>	M/PL	Clay	
_								
	Concentration, D=Dep					ed Sand G		tation: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Black Hydrog Stratifie 1 cm M Deplete Thick D Sandy I 2.5 cm 5 cm M	Epipedon (A2) distic (A3) len Sulfide (A4) ed Layers (A5) (LRR I luck (A9) (LRR F, G, ed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (Sucky Peat or Peat (H) e (A11) S2) (LRR G, F	Stripped Loamy I Loamy I Deplete Redox I Redox I High Pla	Redox (SI I Matrix (i Mucky Mi Gleyed M d Matrix (i Dark Surf d Dark Si Depressions Depressions	5) S6) Ineral (F1) latrix (F2) (F3) ace (F6) urface (F7) ons (F8)	16)	Coast I Dark S High P (LR Reduce Red Pa Very S Other (3Indicators wetland	fluck (A9) (LRR I, J) Prairie Redox (A16) (LRR F, G, H) urface (S7) (LRR G) lains Depressions (F16) R H outside of MLRA 72 & 73) ed Vertic (F18) arent Material (TF2) hallow Dark Surface (TF12) Explain in Remarks) of hydrophytic vegetation and I hydrology must be present, disturbed or problematic.
	nches): <u>8</u>		- -				Hydric Soil	Present? Yes <u>√</u> No
YDROLO	OGY							
YDROLO	OGY vdrology Indicators:							
Wetland Hy		ne required; c	neck all that apply	r).			Seconda	ry Indicators (minimum of two requir
Wetland Hy Primary Indi	drology Indicators:	ne required; c	neck all that apply					ry Indicatorş (minimum of two requir
Wetland Hy Primary Indi Surface	rdrology Indicators: icators (minimum of o	ne required; c		(B11)	es (B13)		Surfa	
Wetland Hy Primary Indi Surface	rdrology Indicators: icators (minimum of o water (A1) ater Table (A2)	ne required; c	Salt Crust Aquatic Inv Hydrogen	(B11) ertebrate Sulfide O	dor (C1)		Surfa Spar _∕ Drair	ace Soil Cracks (B6) sely Vegetated Concave Surface (B nage Patterns (B10)
Wetland Hy Primary Indi Surface High Wa Saturati Water M	rdrology Indicators: icators (minimum of o water (A1) ater Table (A2) ion (A3) Marks (B1)	ne required; c	Salt Crust Aquatic Inv Hydrogen S	(B11) rertebrate Sulfide O n Water ⁻	dor (C1) Table (C2)		Surfa Spar Drair Oxid	ace Soil Cracks (B6) sely Vegetated Concave Surface (B
Netland Hy Primary Indi Surface High Wa Saturati Water M	rdrology Indicators: icators (minimum of o water (A1) ater Table (A2) ion (A3) Marks (B1) nt Deposits (B2)	ne required; c	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized R	(B11) rertebrate Sulfide O n Water ⁻ hizosphe	dor (C1) Table (C2) eres on Liv		Surfa Spar Oxid (C3) (wl	ace Soil Cracks (B6) sely Vegetated Concave Surface (B nage Patterns (B10) ized Rhizospheres on Living Roots (here tilled)
Wetland Hy Primary Indi Surface High Wi Saturati Water M Sedime Drift De	rdrology Indicators: icators (minimum of o water (A1) ater Table (A2) ion (A3) Marks (B1) nt Deposits (B2) posits (B3)	ne required; c	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso ✓ Oxidized R (where r	(B11) rertebrate Sulfide O n Water ⁻ hizosphe lot tilled)	dor (C1) Table (C2) eres on Liv	ing Roots	Surfa Spar Oxid Oxid (C3) (wl	ace Soil Cracks (B6) sely Vegetated Concave Surface (B nage Patterns (B10) ized Rhizospheres on Living Roots (here tilled) fish Burrows (C8)
Wetland Hy Primary Indi Surface High Wi Saturati Water M Sedime Drift De	rdrology Indicators: icators (minimum of o water (A1) ater Table (A2) ion (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	ne required; c	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso ✓ Oxidized R (where n	(B11) rertebrate Sulfide O n Water hizosphe tot tilled)	dor (C1) Table (C2) eres on Liv) ed Iron (C4	ing Roots	Surfa Spar Oxid Oxid (C3) (w/ Cray Satu	ace Soil Cracks (B6) sely Vegetated Concave Surface (B nage Patterns (B10) ized Rhizospheres on Living Roots (here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Wetland Hy Primary Indi Surface High Wi Saturati Water M Sedime Drift De Algal Mi	rdrology Indicators: icators (minimum of of of other (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5)		Salt Crust Aquatic Inv Hydrogen S Dry-Seaso ✓ Oxidized R (where n Presence c Thin Muck	(B11) rertebrate Sulfide O n Water hizosphe tot tilled) f Reduce Surface	dor (C1) Table (C2) eres on Liv) ed Iron (C4 (C7)	ing Roots	Surfa Spar Oxid Oxid (C3) (wl Cray Satu Geor	ace Soil Cracks (B6) sely Vegetated Concave Surface (B nage Patterns (B10) ized Rhizospheres on Living Roots (here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Algal Ma Iron De	rdrology Indicators: icators (minimum of of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial I		Salt Crust Aquatic Inv Hydrogen S Dry-Seaso ✓ Oxidized R (where n	(B11) rertebrate Sulfide O n Water hizosphe tot tilled) f Reduce Surface	dor (C1) Table (C2) eres on Liv) ed Iron (C4 (C7)	ing Roots	Surfa Spar	ace Soil Cracks (B6) sely Vegetated Concave Surface (B nage Patterns (B10) ized Rhizospheres on Living Roots (here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron De Inundati Water-S	rdrology Indicators: icators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) iposits (B3) at or Crust (B4) iposits (B5) ion Visible on Aerial I Stained Leaves (B9)		Salt Crust Aquatic Inv Hydrogen S Dry-Seaso ✓ Oxidized R (where n Presence c Thin Muck	(B11) rertebrate Sulfide O n Water hizosphe tot tilled) f Reduce Surface	dor (C1) Table (C2) eres on Liv) ed Iron (C4 (C7)	ing Roots	Surfa Spar	ace Soil Cracks (B6) sely Vegetated Concave Surface (B nage Patterns (B10) ized Rhizospheres on Living Roots (here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Wetland Hy Primary Indi Surface High Water M Sedime Drift De Algal Malling Inundati Water-S Field Obser	rdrology Indicators: icators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial I Stained Leaves (B9) rvations:	magery (B7)	Salt Crust Aquatic Inv Hydrogen Dry-Seaso ✓ Oxidized R (where n Presence o Thin Muck ✓ Other (Exp	(B11) rertebrate Sulfide O n Water hizosphe tot tilled of Reduce Surface lain in Re	dor (C1) Table (C2) Pres on Liv Hed Iron (C4 (C7) Hemarks	ing Roots	Surfa Spar	ace Soil Cracks (B6) sely Vegetated Concave Surface (B nage Patterns (B10) ized Rhizospheres on Living Roots (here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wi Saturati Water M Sedime Drift De Algal Mi Iron De; Inundati Water-S Field Obser	rdrology Indicators: icators (minimum of of twater (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial I Stained Leaves (B9) rvations: ter Present?	magery (B7)	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence c Thin Muck Other (Exp	(B11) rertebrate Sulfide O n Water hizosphe tot tilled of Reduce Surface lain in Re	dor (C1) Table (C2) Pres on Liv Hed Iron (C4 (C7) Hemarks)	ing Roots	Surfa Spar	ace Soil Cracks (B6) sely Vegetated Concave Surface (B nage Patterns (B10) ized Rhizospheres on Living Roots (here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wi Saturati Water M Sedime Drift De Algal Mi Iron De; Inundati Water-S Field Obser	rdrology Indicators: icators (minimum of or water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial I Stained Leaves (B9) rvations: ter Present? Y	magery (B7) es No .	Salt Crust Aquatic Inv Hydrogen Dry-Seaso ✓ Oxidized R (where n Presence o Thin Muck ✓ Other (Exp	(B11) rertebrate Sulfide O n Water hizosphe tot tilled of Reduce Surface lain in Re	dor (C1) Table (C2) Pres on Liv Ored Iron (C4 (C7) Ored arks)	ing Roots	Surfa Spar Oxid (C3) (w) Cray Satu Geor FAC Frosi	ace Soil Cracks (B6) sely Vegetated Concave Surface (B nage Patterns (B10) ized Rhizospheres on Living Roots (here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5)

Adventitious roots on Salix nigra.

Remarks:

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: 130 Environmental Park		City/Count	v: Lockha	rt/Caldwell	Sampling Date: 07/11/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T27-DP2
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Floodplain			-		/e Slope /%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: FeE - Fett gravelly soils, 1-12					
Are climatic / hydrologic conditions on the site typical for the					•
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology	naturally pro	oblematic?	(If ne	eeded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	samplir	ng point l	ocations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes ✓	No.				
	No		he Sampleo		
Wetland Hydrology Present? Yes ✓ 1	No	with	hin a Wetlaı	nd? Yes <u>▼</u>	No
Remarks:					 -
VEGETATION – Use scientific names of plan	nte				
VEGETATION – Ose scientific fiames of plan	Absolute	Dominan	t Indicator	Dominance Test work	rshoot
Tree Stratum (Plot size: 30')		Species?		Number of Dominant S	
1. Ulmus crassifolia	30	Yes	FAC	That Are OBL, FACW,	or FAC
2				(excluding FAC-):	<u>3</u> (A)
3				Total Number of Domir	
4				Species Across All Stra	ata: <u>3</u> (B)
Sapling/Shrub Stratum (Plot size: 15')	30	= Total Co	ver	Percent of Dominant S	. 400
1. Ulmus crassifolia	30	Yes	FAC	That Are OBL, FACW,	or FAC: 100 (A/B)
2	_			Prevalence Index wor	ksheet:
3				Total % Cover of:	-
4				i .	x 1 =
5					x 2 =
<i>5</i> 1	30	= Total Co	ver		x 3 =
Herb Stratum (Plot size: 5')	95	Yes	FACW		x 4 =
1. Eleocharis compressa 2. Iva annua	20	No	FAC	UPL species	
				Column Totals:	(A) (B)
3				Prevalence Index	: = B/A =
5				Hydrophytic Vegetati	on Indicators:
6.					Hydrophytic Vegetation
7				✓ 2 - Dominance Tes	
8.				3 - Prevalence Ind	
9.				4 - Morphological /	Adaptations ¹ (Provide supporting sor on a separate sheet)
10.				1	phytic Vegetation ¹ (Explain)
201	115	= Total Co	ver		
Woody Vine Stratum (Plot size: 30')				'Indicators of hydric so be present, unless dist	if and wetland hydrology must
1				<u> </u>	- Proporting (d.
2				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 20		= Total Co	over	Present? Ye	s No
Remarks:					

Sampling Point: T27-DP2 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Type¹ Color (moist) Loc2 Texture (inches) 0 - 1010 YR 3/1 80 5 YR 4/6 20 C M/PL Clay ²Location: PL=P<u>ore Lining, M=Matrix.</u> ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ___ Sandy Gleyed Matrix (S4) Histosol (A1) _ 1 cm Muck (A9) (LRR I, J) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) ___ Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR G) __ Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) ___ Stratified Layers (A5) (LRR F) ___ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) _ 1 cm Muck (A9) (LRR F, G, H) __ Depleted Matrix (F3) Reduced Vertic (F18) ✓ Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Red Parent Material (TF2) ___ Depleted Dark Surface (F7) Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Other (Explain in Remarks) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) ___ High Plains Depressions (F16) ³Indicators of hydrophytic vegetation and ___ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Claypan Depth (inches): _10 Hydric Soil Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) ___ High Water Table (A2) _ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) ✓ Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) √ Water Marks (B1) ___ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) ___ Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) ✓_ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ___ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes ____ No ✓ Depth (inches): ___ Surface Water Present?

US Army Corps of Engineers

Water Table Present?

Water marks on trees.

Saturation Present? (includes capillary fringe)

Remarks:

Wetland Hydrology Present? Yes ✓ No

Yes _____ No <u>✓</u> Depth (inches): _____

Yes _____ No

Depth (inches):

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

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: 130 Environmental Park		City/County:	Lockhai	rt/Caldwell	Sampling Date: 0	7/11/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX	· -	
Investigator(s): Troegle, Josh & Littleton, Brandyn						
Landform (hillslope, terrace, etc.): Floodplain				-	ve sinn	e (%)· 0-1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: FeE - Fett gravelly soils, 1-12%				NWI classific		
Are climatic / hydrologic conditions on the site typical for this						ilabiç
Are Vegetation, Soil, or Hydrology s				"Normal Circumstances"		No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe		NU
			,		,	
SUMMARY OF FINDINGS – Attach site map	showing	sampling	point le	ocations, transects	s, important fea	itures, etc.
Hydrophytic Vegetation Present? Yes ✓ N	o	J= 4b-	- Camalad	I Avaa		
Hydric Soil Present? Yes <u>✓</u> N	o		e Sampled n a Wetlar		No	
Wetland Hydrology Present? Yes ✓ N	0	Wittin	ii a metiai	101 103		
Remarks:						
Water marks on base of trees.						
VEGETATION – Use scientific names of plan	ts.					
	Absolute	Dominant	Indicator	Dominance Test work	ksheet:	
<u>Tree Stratum</u> (Plot size: 30'		Species?		Number of Dominant S		
1. Ulmus crassifolia	60		FAC	That Are OBL, FACW, (excluding FAC-):	or FAC 2	(4)
2.				(excluding I AC).		(A)
3				Total Number of Domin Species Across All Stra		(B)
4	60					(D)
Sapling/Shrub Stratum (Plot size: 15'		= Total Cove	er	Percent of Dominant S That Are OBL, FACW,		(A/B)
1. Fraxinus pennsylvanica	5	Yes			-	(~0)
2				Prevalence Index wo		
3				ļ.	Multiply	
4				OBL species		
5				FACW species		
Herb Stratum (Plot size: 5'	5	= Total Cov	er	FACU species		
1					x5=	
2.				Column Totals:		
3.						
4.					x = B/A =	
5				Hydrophytic Vegetati		
6				1 - Rapid Test for ✓ 2 - Dominance Test		tion
7				3 - Prevalence Ind		
8				4 - Morphological		la ausanadian
9				data in Remark	s or on a separate s	heet)
10				Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30'		= Total Cov	er	¹ Indicators of hydric so	il and wettand hydro	logy must
1				be present, unless dist		
2.				Hydrophytic		
		= Total Cov		Vegetation	/	
% Bare Ground in Herb Stratum 98				Present? Ye	es <u>/</u> No	
Remarks:						
I .						

 SOIL
 Sampling Point:
 T27-DP3

Profile Des	cription: (Describ	e to the dep				or confir	n the absence of i	ndicators.)
Depth (inches)	Matrix	%	Red	12	Taretrus			
(inches) 0-10	Color (moist) 10 YR 3/1	80	Color (moist) 5 YR 4/6	_ <u>%</u> 	<u>Type¹</u> C	<u>Loc²</u> M/PL	Texture	Remarks
0-10	10 11 3/1		3 TK 4/0			IVI/PL	Clay	
								
¹Type: C=C	oncentration, D=De	pfetion, RM	=Reduced Matrix, C	S=Covere	d or Coate	ed Sand G	rains. ² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	icable to all	LRRs, unless other	rwise no	ted.)			Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleyed M	atrix (S4)		1 cm Muck	(A9) (LRR I, J)
1	pipedon (A2)			Redox (S			Coast Prair	ie Redox (A16) (LRR F, G, H)
I —	istic (A3)			d Matrix (ce (S7) (LRR G)
	en Sulfide (A4)	- \		-	neral (F1)			Depressions (F16)
	d Layers (A5) (LRR uck (A9) (LRR F, G			Gleyed M ed Matrix ((LKK H Reduced V	outside of MLRA 72 & 73)
	d Below Dark Surfa		✓ Redox				•	: Material (TF2)
	ark Surface (A12)	(,			urface (F7)		w Dark Surface (TF12)
Sandy M	Mucky Mineral (S1)		Redox	Depressio	ns (F8)			ain in Remarks)
	Mucky Peat or Peat				essions (F		³ Indicators of hy	drophytic vegetation and
5 cm Mu	ucky Peat or Peat (53) (LRR F)	(ML	.RA 72 &	73 of LRF	R H)		Irology must be present,
D4-i-4i I	(() = () -						unless dist	urbed or problematic.
	Layer (if present):							
Depth (inc	ches):						Hydric Soil Pres	sent? Yes <u>√</u> No
Remarks:	allimaliantava alama							
No nyaric so	oil indicators obse	ervea.						
HYDROLO	GY							
Wetland Hyd	drology Indicators	::						<u> </u>
Primary India	cators (minimum of	one required	d; check all that app	y)	_		Secondary In	dicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			✓ Surface :	Soil Cracks (B6)
High Wa	iter Table (A2)		Aquatic In	vertebrate	es (B13)			Vegetated Concave Surface (B8)
Saturatio	on (A3)		Hydrogen	Sulfide O	dor (C1)			Patterns (B10)
✓ Water M	arks (B1)		Dry-Seaso	on Water	Table (C2))	Oxidized	Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits (B2)		Oxidized I	Rhizosphe	eres on Liv	ing Roots	(C3) (where	tilled)
✓ Drift Dep	oosits (B3)		(where	not tilled))		Crayfish	Burrows (C8)
Algal Ma	it or Crust (B4)		Presence	of Reduce	ed Iron (C	4)		n Visible on Aerial Imagery (C9)
Iron Dep	osits (B5)		Thin Mucl	Surface	(C7)		✓ Geomorp	hic Position (D2)
Inundatio	on Visible on Aerial	Imagery (B7	7) Other (Ex	olain in Re	emarks)		FAC-Net	itral Test (D5)
Water-St	tained Leaves (B9)						Frost-He	ave Hummocks (D7) (LRR F)
Field Observ								
Surface Water			No ✓ Depth (in			I .		
Water Table			No 🗹 Depth (in					
Saturation Pr		Yes I	No <u>✓</u> Depth (in	ches):		Wetl	and Hydrology Pre	sent? Yes ✓ No
(includes cap			nitoring well, aerial	nhataa n	oriere inc	nactions)	if available:	
Describe Rec	colded Data (strear	n gauge, mo	initoring well, aerial	pnotos, pi	evious ilis	spections),	ii avaliable:	
Remarks:								

TRANSECT 27 SITE PHOTOGRAPHS



Data Point 1 Emergent Wetland



Data Point 1 Emergent Wetland



Data Point 1 Emergent Wetland

TRANSECT 27 SITE PHOTOGRAPHS



Data Point 2 Emergent Wetland



Data Point 2 Emergent Wetland



Data Point 3
Forested Wetland

TRANSECT 27 SITE PHOTOGRAPHS



Data Point 3
Forested Wetland



Data Point 3
Forested Wetland

THIS PAGE LEFT BLANK INTENTIONALLY



Dry Creek - 1



Dry Creek - 2



ES-1

Page 1 of 6



ES-2



ES-5



ES-7

Page 2 of 6



ES-9



ES-9A



ES-9B

Page 3 of 6



ES-9C



ES-9E



ESD-3

Page 4 of 6



ESD-4 (Upstream)



ESD-4A



ESD-4B

Page 5 of 6



IS-1



IS-1 (Confluence with OW-1)

APPENDIX C SUMMARY OF MAPPED WATER FEATURES

Table C.1 - Summary of Mapped Water Features

Feature ID	Map ID	Cowardin Code ⁽¹⁾	HGM Code	Area (acres)	Length (feet)	Water Type ⁽²⁾	Latitude	Longitude	Water of United States			
	Stream Features											
Dry Creek	3.2, 3.4	R4SB5	Riverine	1.72	6,264	RPW	29.9677	-97.6496	Yes			
ES-1	3.5	R6	Riverine	0.07	567	NRPW	29.9537	-97.6630	Yes			
ES-2	3.5, 3.6	R6	Riverine	0.45	3,452	NRPW	29.9576	-97.6649	Yes			
ES-2A	3.6	R6	Riverine	0.01	116	NRPW	29.9553	-97.6575	Yes			
ES-3	3.3	R6	Riverine	0.11	1,393	NRPW	29.9610	-97.6648	Yes			
ES-4	3.3	R6	Riverine	0.09	1,245	NRPW	29.9621	-97.6622	Yes			
ES-5	3.3	R6	Riverine	0.41	3,258	NRPW	29.9655	-97.6658	Yes			
ES-5A	3.3	R6	Riverine	0.06	532	NRPW	29.9650	-97.6662	Yes			
ES-5B	3.3	R6	Riverine	0.01	135	NRPW	29.9645	-97.6637	Yes			
ES-6	3.3	R6	Riverine	0.08	959	NRPW	29.9681	-97.6606	Yes			
ES-7	3.1	R6	Riverine	0.23	1,414	NRPW	29.9719	-97.6660	Yes			
ES-7A	3.1	R6	Riverine	0.02	226	NRPW	29.9720	-97.6663	Yes			
ES-8	3.1	R6	Riverine	0.06	432	NRPW	29.9773	-97.6650	Yes			
ES-9	3.5	R6	Riverine	0.41	2,453	NRPW	29.9544	-97.6698	Yes			
ES-9A	3.5	R6	Riverine	0.04	306	NRPW	29.9551	-97.6706	Yes			
ES-9B	3.5	R6	Riverine	0.08	605	NRPW	29.9536	-97.6725	Yes			
ES-9C	3.5	R6	Riverine	0.01	96	NRPW	29.9538	-97.6713	Yes			
ES-9D	3.5	R6	Riverine	0.01	78	NRPW	29.9535	-97.6725	Yes			
ES-9E	3.5	R6	Riverine	0.02	187	NRPW	29.9533	-97.6724	Yes			
ES-9F	3.5	R6	Riverine	0.02	148	NRPW	29.9531	-97.6726	Yes			
ESD-1	3.4	R6	Riverine	0.35	1,878	NRPW	29.9627	-97.6493	Yes			
ESD-2	3.4	R6	Riverine	0.14	1,065	NRPW	29.9633	-97.6519	Yes			
ESD-2A	3.4	R6	Riverine	0.01	89	NRPW	29.9631	-97.6522	Yes			
ESD-3	3.4	R6	Riverine	0.04	419	NRPW	29.9668	-97.6510	Yes			
ESD-4	3.2	R6	Riverine	0.50	3,912	NRPW	29.9730	-97.6522	Yes			
ESD-4A	3.2	R6	Riverine	0.06	420	NRPW	29.9733	-97.6541	Yes			
ESD-4B	3.2	R6	Riverine	0.19	1,638	NRPW	29.9727	-97.6551	Yes			
ESD-4C	3.2	R6	Riverine	0.01	115	NRPW	29.9729	-97.6555	Yes			
ESD-4D	3.2	R6	Riverine	0.05	570	NRPW	29.9716	-97.6543	Yes			
ES-10	3.3	R6	Riverine	0.01	105	NRPW	29.9639	-97.6596	Yes			
ES-11	3.3	R6	Riverine	0.01	117	NRPW	29.9634	-97.6587	Yes			
ES-12	3.3	R6	Riverine	0.02	127	NRPW	29.9620	-97.6590	Yes			
IS-1	3.1, 3.3, 3.6	R4SB5	Riverine	2.22	10,017	RPW	29.9696	-97.6623	Yes			
Open Water Features												
OW-1	3.4, 3.6	POW	Depressional	20.32	-	Impoundment	29.9590	-97.6541	Yes			
OW-2	3.4	POW	Depressional	0.42	-	Impoundment	29.9613	-97.6549	Yes			

Feature ID	Map ID	Cowardin Code ⁽¹⁾	HGM Code	Area (acres)	Length (feet)	Water Type ⁽²⁾	Latitude	Longitude	Water of United States
OW-3	3.4	POW	Depressional	0.28	-	Impoundment	29.9600	-97.6503	Yes
OW-4	3.2	POW	Depressional	0.28	-	Isolated	29.9746	-97.6543	No
OW-5	3.3	POW	Depressional	0.17	-	Isolated	29.9675	-97.6598	No
OW-6	3.3	POW	Depressional	0.22	-	Impoundment	29.9606	-97.6639	Yes
OW-7	3.5	POW	Depressional	0.15	-	Impoundment	29.9534	-97.6715	Yes
OW-8	3.4	POW	Depressional	0.18	-	Isolated	29.9686	-97.6572	No
				d Featur	es				
EW-1	3.6	PEM1	Lacustrine Fringe	0.04	-	RPWWD	29.9576	-97.6558	Yes
EW-2	3.4	PEM1	Lacustrine Fringe	0.62	-	RPWWD	29.9594	-97.6553	Yes
EW-3	3.4	PEM1	Lacustrine Fringe	0.18	-	RPWWN	29.9613	-97.6549	Yes
EW-4	3.4	PEM1	Lacustrine Fringe	1.71	-	RPWWD	29.9609	-97.6541	Yes
EW-5	3.4	PEM1	Lacustrine Fringe	1.63	-	RPWWD	29.9602	-97.6528	Yes
EW-6	3.4	PEM1	Lacustrine Fringe	0.38	-	RPWWD	29.9609	-97.6524	Yes
EW-7	3.4	PEM1	Lacustrine Fringe	2.10	-	RPWWD	29.9616	-97.6522	Yes
EW-8	3.4	PEM1	Lacustrine Fringe	1.18	-	RPWWD	29.9608	-97.6514	Yes
EW-9	3.4	PEM1	Lacustrine Fringe	0.21	-	RPWWD	29.9601	-97.6512	Yes
EW-10	3.4	PEM1	Lacustrine Fringe	0.11	-	RPWWD	29.9593	-97.6529	Yes
EW-11	3.4	PEM1	Lacustrine Fringe	0.37	-	RPWWD	29.9586	-97.6528	Yes
EW-12	3.6	PEM1	Lacustrine Fringe	0.04	-	RPWWD	29.9580	-97.6530	Yes
EW-13	3.6	PEM1	Lacustrine Fringe	0.37	-	RPWWD	29.9576	-97.6538	Yes
EW-14	3.4	PEM1	Lacustrine Fringe	0.06	-	RPWWN	29.9601	-97.6502	Yes
EW-15	3.4	RP2EM	Riverine	0.17	-	RPWWD	29.9629	-97.6521	Yes
EW-16	3.4	PEM1	Riverine	0.11	-	RPWWN	29.9655	-97.6500	Yes
EW-17	3.4	PEM1	Riverine	0.23	-	RPWWN	29.9665	-97.6496	Yes
EW-18	3.4	PEM1	Riverine	0.13	-	RPWWN	29.9684	-97.6485	Yes
EW-19	3.4	PEM1	Depressional	0.11	-	Isolated	29.9659	-97.6555	No
EW-20	3.2	PEM1	Lacustrine Fringe	0.24	-	Isolated	29.9746	-97.6543	No
EW-21	3.2	PEM1	Depressional	0.07	-	Isolated	29.9785	-97.6565	No
EW-22	3.2	PEM1	Depressional	0.02	-	Isolated	29.9790	-97.6564	No
EW-23	3.1	PEM1	Depressional	0.03	-	Isolated	29.9756	-97.6605	No
EW-24	3.1	PEM1	Depressional	0.09	-	Isolated	29.9751	-97.6607	No
EW-25	3.1	PEM1	Depressional	0.04	-	Isolated	29.9756	-97.6611	No
EW-26	3.1	PEM1	Depressional	0.08	-	Isolated	29.9753	-97.6612	No
EW-27	3.1	PEM1	Depressional	0.03	-	Isolated	29.9754	-97.6616	No
EW-28	3.1	PEM1	Depressional	0.02	-	Isolated	29.9741	-97.6608	No
EW-29	3.1	PEM1	Depressional	0.02	-	Isolated	29.9742	-97.6607	No
EW-30	3.1	PEM1	Depressional	0.02	-	Isolated	29.9742	-97.6604	No
EW-31	3.1	PEM1	Depressional	0.02	-	Isolated	29.9745	-97.6603	No
EW-32	3.1	PEM1	Depressional	0.04	-	Isolated	29.9744	-97.6597	No
EW-33	3.1	PEM1	Depressional	0.05	-	Isolated	29.9716	-97.6589	No

Feature ID	Map ID	Cowardin Code ⁽¹⁾	HGM Code	Area (acres)	Length (feet)	Water Type ⁽²⁾	Latitude	Longitude	Water of United States
EW-34	3.3	PEM1	Lacustrine Fringe	0.08	-	Isolated	29.9676	-97.6598	No
EW-35	3.3	PEM1	Depressional	0.03	-	Isolated	29.9675	-97.6596	No
EW-36	3.3	PEM1	Depressional	0.01	-	RPWWN	29.9670	-97.6607	Yes
EW-37	3.3	RP2EM	Riverine	0.14	-	RPWWD	29.9671	-97.6614	Yes
EW-38	3.1	RP2EM	Riverine	0.21	-	RPWWD	29.9721	-97.6645	Yes
EW-39	3.3	RP2EM	Riverine	0.13	-	RPWWD	29.9646	-97.6642	Yes
EW-40	3.3	PEM1	Lacustrine Fringe	0.16	-	RPWWD	29.9606	-97.6641	Yes
EW-41	3.6	PEM1	Depressional	0.03	-	RPWWN	29.9578	-97.6585	Yes
EW-42	3.6	PEM1	Depressional	0.26	-	RPWWN	29.9573	-97.6586	Yes
EW-43	3.5	PEM1	Depressional	0.07	-	RPWWN	29.9531	-97.6673	Yes
EW-44	3.5	PEM1	Depressional	0.33	-	RPWWN	29.9527	-97.6669	Yes
EW-45	3.5	RP2EM	Riverine	0.16	-	RPWWD	29.9537	-97.6710	Yes
EW-46	3.5	PEM1	Lacustrine Fringe	0.16	-	RPWWD	29.9534	-97.6715	Yes
FW-1	3.4	PFO1	Lacustrine Fringe	0.40	-	RPWWD	29.9601	-97.6519	Yes
FW-2	3.4	PFO1	Lacustrine Fringe	0.16	-	RPWWD	29.9607	-97.6520	Yes
FW-3	3.4	PFO1	Lacustrine Fringe	0.13	-	RPWWD	29.9606	-97.6515	Yes
FW-4	3.4	PFO1	Lacustrine Fringe	0.07	-	RPWWD	29.9609	-97.6516	Yes
FW-5	3.4	PFO1	Lacustrine Fringe	0.10	-	RPWWD	29.9612	-97.6522	Yes
FW-6	3.2	RP1FO6	Riverine	0.15	-	RPWWN	29.9701	-97.6493	Yes
FW-7	3.2	RP1FO6	Riverine	0.03	-	RPWWN	29.9706	-97.6478	Yes
FW-8	3.5	PFO1	Depressional	0.20	-	RPWWN	29.9530	-97.6672	Yes
SSW-1	3.6	PSS1	Lacustrine Fringe	0.01	-	RPWWD	29.9573	-97.6554	Yes
SSW-2	3.6	PSS1	Lacustrine Fringe	0.22	-	RPWWD	29.9578	-97.6536	Yes
SSW-3	3.4	PSS1	Lacustrine Fringe	0.16	-	RPWWD	29.9586	-97.6526	Yes
SSW-4	3.4	PSS1	Lacustrine Fringe	0.55	-	RPWWD	29.9604	-97.6531	Yes

NOTES:

Latitude and Longitude are WGS 84, Decimal Degrees.

Cowardin Code⁽¹⁾

PEM1 - Persistent, Emergent, Palustrine

PFO1 - Broad-Leaved Deciduous, Forested, Palustrine

POW - Open Water, Palustrine

PSS1 - Broad-Leaved Deciduous, Scrub-Shrub, Palustrine

R4SB5 - Mud, Streambed, Intermittent, Riverine

R6 - Ephemeral Streambed

RP1FO6 - Deciduous, Forested, Lotic, Riparian

RP2EM - Emergent, Lotic, Riparian

Water Type⁽²⁾

NRPW - Non-relatively permanent water

RPW - Relatively permanent water

RPWWD - Wetlands directly abutting relatively permanent water

RPWWN - Wetlands adjacent to but not directly abutting relatively

APPENDIX IID.2

SUMMARY OF WETLANDS DETERMINATION AND IDENTIFICATION FOR 130 ENVIRONMENTAL PARK FACILITY BOUNDARY AREA

Appendix IID.2 – Summary of Wetlands Determination and Identification for 130 Environmental Park Facility Boundary Area

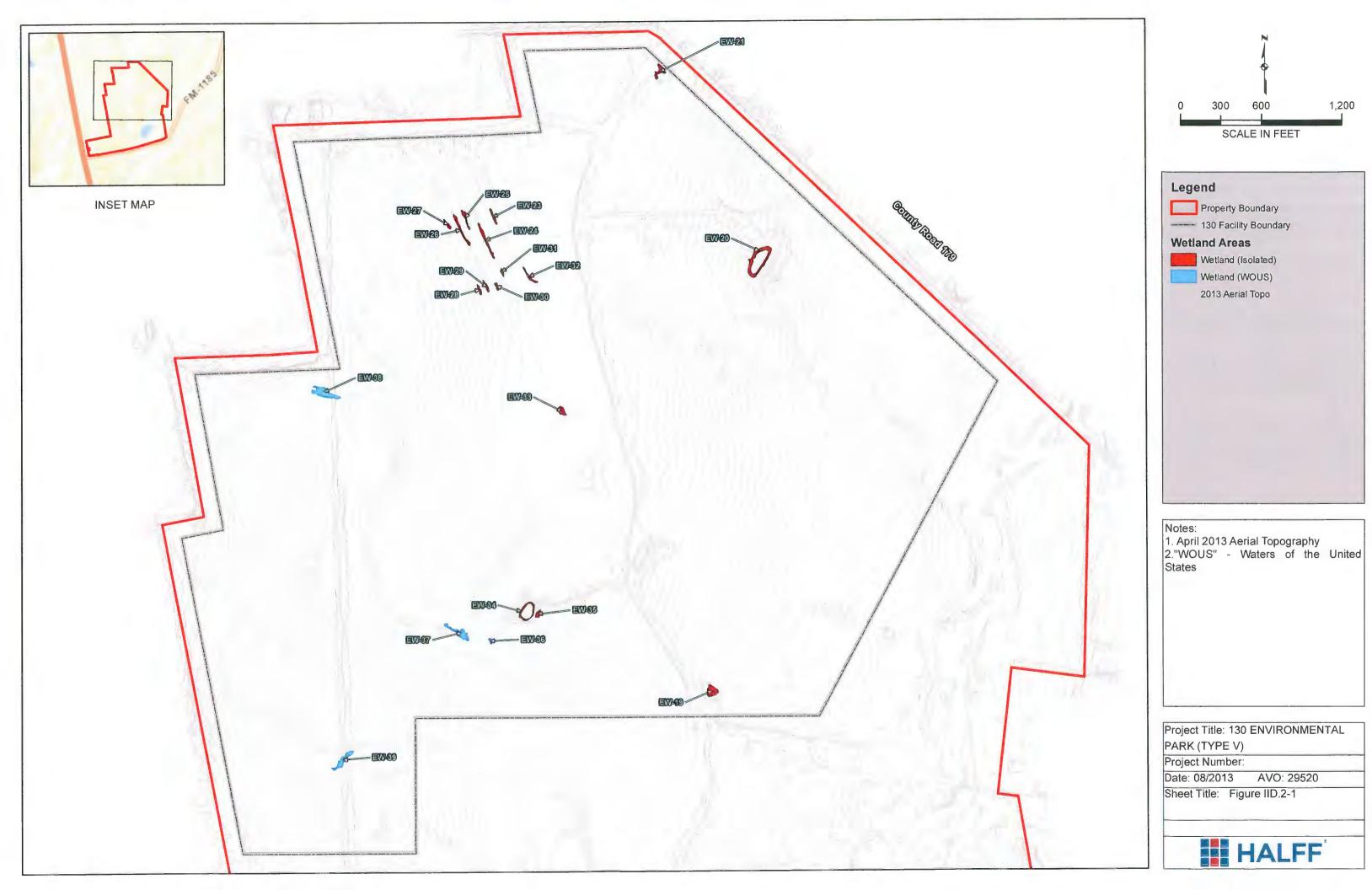
30 TAC §330.61(m)(2) requires that an application "include a wetlands determination under applicable federal, state, and local laws", and 30 TAC §330.61(m)(3) requires that an application "identify wetlands located within the facility boundary." The federal definition of "Wetlands", in USACE rules at 33 CFR §328.3(b), is "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas." The state definition of "wetlands", set out at 30 TAC §307.3(a)(81) (as referenced at 30 TAC §330.3 (178)) is consistent with the federal definition; there are no other state requirements for wetlands determinations. There are no applicable local definitions or requirements for wetlands determinations. described in Sections 2.0 and 3.0 of the waters of the U.S. and wetlands report included as Appendix IID.1, wetlands at and near the site were determined and identified in accordance with federal requirements using methods consistent with the USACE guidelines for wetland delineations per the "1987 Corps of Engineers Wetlands Delineation Manual" and the "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2.0)". Appendix IID.1 ("Waters of the United States Delineation Report and Wetlands Determination and Identification") provides the results of investigation to delineate waters of the United States (areas subject to U.S. Army Corps of Engineers jurisdiction under Section 404 of the federal Clean Water Act, including "jurisdictional wetlands") and to provide a wetlands identification and determination for the 1,229 acre tract that includes the 520 acre proposed facility boundary area for the 130 Environmental Park. A table summarizing the results of the investigation is included as Appendix C to Appendix IID.1.

Table IID.2-1 and Figure IID.2-1 in this appendix summarize information regarding those wetlands that are located within the proposed facility boundary. As shown, there are approximately 1.46 acres of wetlands located within the facility boundary, 0.49 acre of which are jurisdictional wetlands; and there are approximately 0.68 acre of wetlands within the area proposed for the new municipal solid waste landfill unit (landfill footprint), none of which is jurisdictional wetlands. As required by 30 TAC §330.61(m)(2) and §330.553(a), Appendix IID-3 addresses, for these 0.68 acre wetlands areas, each of the wetlands demonstrations identified in 30 TAC §330.553 (b)(1) - (5).

Table IID-2.1 – Wetlands Determination and Identification for 130 **Environmental Park Facility Boundary Area**

Wetlands Feature ID	Area (acres)	Within WM Unit Boundary	Section 404 Wetland ¹	Wetlands Within WM Unit Boundary (acres)
EW-19	0.11	No	No	NA
EW-20	0.24	Yes	No	0.24
EW-21	0.07	No	No	NA
EW-23	0.03	Yes	No	0.03
EW-24	0.09	Yes	No	0.09
EW-25	0.04	Yes	No	0.04
EW-26	0.08	Yes	No	0.08
EW-27	0.03	Yes	No	0.03
EW-28	0.02	Yes	No	0.02
EW-29	0.02	Yes	No	0.02
EW-30	0.02	Yes	No	0.02
EW-31	0.02	Yes	No	0.02
EW-32	0.04	Yes	No	0.04
EW-33	0.05	Yes	No	0.05
EW-34	0.08	No	No	NA
EW-35	0.03	No	No	NA
EW-36	0.01	No	Yes	NA
EW-37	0.14	No	Yes	NA
EW-38	0.21	No	Yes	NA
EW-39	0.13	No	Yes	NA
TOTALS	1.46	_	0.49 ³	0.68

^{1 -} Meets the definition of water of the United States under Section 404 of the Clean Water Act
2 - NA = not applicable
3 - No Section 404 wetlands within the Waste Management Unit Boundary



APPENDIX IID.3 WETLANDS DEMONSTRATIONS

APPENDIX IID.3 – WETLANDS DEMONSTRATIONS

30 TAC §330.553(a) provides that "Municipal solid waste storage or processing facilities shall not be located in wetlands unless the owner or operator makes each of the demonstrations identified in subsection (b)(1) - (5) of this section."

Table IID.2-1 and Figure IID.2-1 in Appendix IID.2 summarize information regarding wetlands located within the proposed facility boundary. As shown, there is approximately 0.68 acre of wetlands within the area proposed for the new municipal solid waste landfill unit (landfill footprint), none of which is jurisdictional wetlands. These wetlands areas make up less than 0.4% of the 208-acre landfill unit area, are located in interior portions of the footprint area, and will be completely removed and filled as part of the landfill development and construction process prior to the deposition of waste.

Because the landfill unit will be located in wetlands, as required by 30 TAC §330.61(m)(2) and §330.553(a), this appendix addresses, for these 0.68 acre wetlands areas, each of the wetlands demonstrations identified in 30 TAC §330.553 (b)(1) - (5).

(b)(1) Where applicable under Clean Water Act, §404 or applicable state wetlands laws, the presumption that a practicable alternative to the proposed landfill or recovery operation is available that does not involve wetlands shall be clearly rebutted.

The requirement to rebut the presumption that a practicable alternative is available that does not involve wetlands is made applicable under Clean Water Act Section 404 by way of the Section 404(b)(1) guidelines as set out in 40 CFR §230.10(a); it is not applicable under any Texas state law. Under the Section 404(b)(1) guidelines, the rebuttal requirement applies to wetlands only if they are subject to jurisdiction under Section 404 ("jurisdictional wetlands"). Because none of the 0.68 acre of wetlands areas within which the landfill unit will be located is jurisdictional wetlands, this requirement does not apply and no demonstration is required.

(b)(2) The construction and operation of the municipal solid waste landfill unit...shall not: (A) cause or contribute to violations of any applicable state water quality standard;

Because the wetlands within which the landfill unit is proposed to be located will be completely removed and filled as part of the landfill development and construction process prior to the deposition of waste in that area, the location of a small area of the landfill unit in current wetlands areas will not cause or contribute to violations of any applicable state water quality standard. In addition, there will be no discharges from the landfill unit other than permitted discharges of storm water that has not come in contact with solid waste in the landfill unit. As described in Part II, Appendix IIH, 130 Environmental Park, LLC will obtain Texas Pollutant Discharge Elimination System (TPDES) permit coverage for the 130 Environmental Park in accordance with 30 TAC §330.61(k)(3), and the facility will be operated in compliance with applicable TPDES standards and prohibitions. Therefore the construction and operation of the municipal solid waste landfill unit will not cause or contribute to violation of any applicable state water quality standard.

(B) violate any applicable toxic effluent standard or prohibition under the Clean Water Act, §307;

Toxic effluent standards and prohibitions have been promulgated by U.S. EPA under Clean Water Act §307 for various point sources and categories of discharges. There will be no discharges from the landfill unit other than permitted discharges of storm water that has not come in contact with solid waste in the landfill unit. As described in Part II, Appendix IIG, 130 Environmental Park, LLC will obtain Texas Pollutant Discharge Elimination System (TPDES) permit coverage for the 130 Environmental Park in accordance with 30 TAC §330.61(k)(3), and the facility will be operated in compliance with applicable TPDES standards and prohibitions. Therefore the construction and operation of the municipal solid waste landfill unit will not violate any applicable toxic effluent standard or prohibition under the Clean Water Act, §307.

(C) jeopardize the continued existence of endangered or threatened species or result in the destruction or adverse modification of a critical habitat, protected under the Endangered Species Act of 1973:

A discussion of endangered and threatened species and the bases for the conclusion that construction and operation of the landfill unit will not jeopardize the continued existence of endangered or threatened species or result in the destruction or adverse modification of a critical habitat is referenced in Part II, Appendix IIE.

(D) violate any requirement under the Marine Protection, Research, and Sanctuaries Act of 1972 for the protection of a marine sanctuary.

The Marine Protection, Research, and Sanctuaries Act of 1972 limits ocean dumping of waste and provides for the designation and protection of national marine sanctuaries. The landfill unit at 130 Environmental Park is located well over 100 miles from the nearest ocean (Gulf of Mexico) and well over 200 miles from the nearest national marine sanctuary (Flower Garden Banks offshore in the Gulf of Mexico). Because the construction and operation of the landfill unit will not result in any ocean dumping of waste and will not result in any adverse impacts to any marine sanctuary, the facility will not violate any requirement under the Marine Protection, Research, and Sanctuaries Act of 1972.

- (b)(3) The municipal solid waste landfill unit...shall not cause or contribute to significant degradation of wetlands. The owner/operator shall demonstrate the integrity of the landfill unit and its ability to protect ecological resources by addressing the following factors:
- (A) erosion, stability, and migration potential of native wetland soils, muds, and deposits used to support the landfill unit;

There is approximately 0.68 acre of wetlands within the area proposed for the new municipal solid waste landfill unit (landfill footprint). These wetlands areas make up less than 0.4% of the 208 acre landfill unit area, are located in interior portions of the footprint area, and will be completely removed and filled as part of the landfill development and construction process prior to the deposition of waste. As a result, the entire landfill will essentially be in upland areas. No native wetland soils, muds, and deposits will be used to support the landfill unit.

(B) erosion, stability, and migration potential of dredged and fill materials used to support the landfill unit:

There is approximately 0.68 acre of wetlands within the area proposed for the new municipal solid waste landfill unit (landfill footprint). These wetlands areas make up less than 0.4% of the 208 acre landfill unit area, are located in interior portions of the footprint area, and will be completely removed and filled as part of the landfill development and construction process prior to the deposition of waste. As a result, the landfill will be entirely in upland areas. No dredged and fill materials will be used to support the landfill unit.

(C) the volume and chemical nature of the waste managed in the landfill unit;

The landfill will be a Type I municipal solid waste disposal unit, with a disposal capacity of approximately 40 million cubic yards of waste. The major classifications of solid waste to be accepted at 130 Environmental Park include municipal solid waste, special waste, and Class 2 and 3 industrial wastes as defined by 30 TAC §330.3. Additional discussion regarding the types of waste accepted at the landfill is provided in Part II, Section 2.1.

(D) impacts on fish, wildlife, and other aquatic resources and their habitat from release of the solid waste;

The landfill unit at 130 Environmental Park has been designed and will be constructed and operated to limit the potential for the release of solid waste from the unit. Daily cover, consisting of soil or an approved alternate daily cover material will be applied to the working face of the landfill. Intermediate cover will be applied to areas that will not receive additional waste for significant periods, and a final cover system will be installed on completed portions of the landfill. Construction activities at the landfill unit will be conducted in compliance with TPDES General Permit Number TXR150000, Storm Water Discharges Associated with Construction Activities, and a Storm Water Pollution Prevention Plan. (See Part II, Appendix IIG.) Accordingly, the potential for release of solid waste is considered highly unlikely. It is also unlikely that there will be any impacts on fish, wildlife, and other aquatic resources and their habitat from release of solid waste.

(E) the potential effects of catastrophic release of waste to the wetland and the resulting impacts on the environment;

There is approximately 0.68 acre of wetlands within the area proposed for the new municipal solid waste landfill unit (landfill footprint). These wetlands areas make up less than 0.4% of the 208 acre landfill unit area, are located in interior portions of the footprint area, and will be completely removed and filled as part of the landfill development and construction process prior to the deposition of waste. As a result, operation of the landfill will occur entirely in upland areas and the landfill unit will not be in a wetland area into which a catastrophic release of waste could occur.

(F) any additional factors, as necessary, to demonstrate that ecological resources in the wetland are sufficiently protected.

Because the wetlands within which the landfill unit is proposed to be located will be completely removed and filled as part of the landfill development and construction process prior to the deposition of waste in that area, no wetland will be present at that location of the landfill unit and it is not necessary to address any additional factors.

(b)(4) To the extent required under Clean Water Act, §404 or applicable state wetlands laws, steps have been taken to attempt to achieve no net loss of wetlands (as defined by acreage and function) by first avoiding impacts to wetlands to the maximum extent practicable as required by paragraph (1) of this subsection, then minimizing unavoidable impacts to the maximum extent practicable, and finally offsetting remaining unavoidable wetland impacts through all appropriate and practicable compensatory mitigation actions (e.g., restoration of existing degraded wetlands or creation of man-made wetlands).

The requirement to avoid, minimize, and/or mitigate impacts to wetlands is made applicable under Clean Water Act Section 404 by way of the Section 404(b)(1) guidelines as set out in 40 CFR §230.10(d) and by way of USACE's permitting requirements at 33 CFR §325.1(c)(7); it is not applicable under any Texas state law. Under the Section 404(b)(1) guidelines and USACE's rules, the avoid, minimize and/or mitigate requirement applies to wetlands only if they are subject to jurisdiction under Section 404 ("jurisdictional wetlands"). Because none of the 0.68 acre of wetlands areas within which the landfill unit will be located is jurisdictional wetlands, this requirement does not apply and no demonstration is required.

(b)(5) Sufficient information shall be made available to the executive director to make a reasonable determination with respect to these demonstrations.

The foregoing information, together with other materials in the application as referenced above, provide sufficient information for the executive director to make a reasonable determination with respect to these demonstrations.