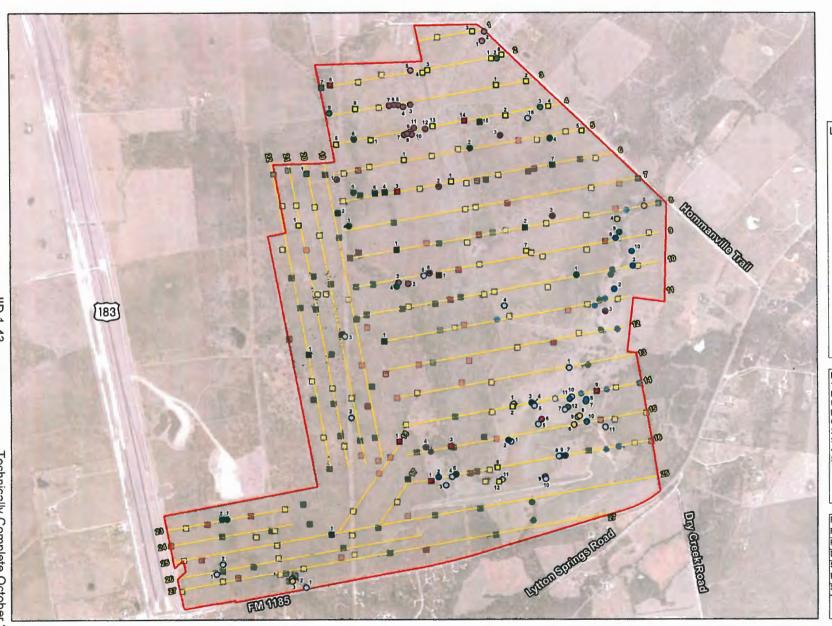
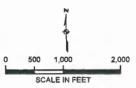
APPENDIX B WETLAND DATA SHEETS AND SITE PHOTOGRAPHS







Legend

Study Area

- Mesquite Grassland Mosaic
- Mesquite Woods
- Sumpweed Depressions
- Post Oak/ Cedar Elm Woods
- Riparian Woods
- Floodplain Meadows
- Forested Wetlands
- **Emergent Wetlands**
- Scrub/Shrub Wetlands

Notes:

Notes:

1. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Project Title: 130 ENVIRONMENTAL PARK

Project Number: <USACE #>

Date: 08/2013 AVO: 29520

Sheet Title: TRANSECTS AND DATA

POINTS MAP

Sheet Number: FIGURE B-1



Notes:

- 1. Figure B-1 provides a graphic demonstration of transect locations within the study area, and the distribution of field data collected within the study area.
- 2. Data point locations were determined by changes between vegetation community types, or in some instances, to demonstrate thorough coverage within a same community type.
- 3. Numbered data points on Figure B-1 represent vegetation communities for which data was collected to compile unique wetland data sheets for that community.
- 4. Wetland data sheets are provided in the following pages, followed by photographs for each data point; data point and photo sets are sorted per transect.
- 5. Unnumbered data points on Figure B-1 represent vegetation communities for which photographs were collected to demonstrate thorough coverage of each transect.
- To eliminate unnecessary duplication of wetland data sheets depicting homogenous upland vegetation communities, unique data sheets have not been provided for unnumbered data sheet locations; refer to data sheets for like vegetation community types on same or neighboring transects.
- 7. Many site photographs may be indistinguishable from others within the same vegetation community. To eliminate unnecessary reproduction of site photographs, refer to wetland data sheet photos for a depiction of the vegetation community. Photographs may be made available in electronic format upon request.
- 8. The best representative photograph for each vegetation community type, along with a brief narrative describing each type, is provided as a preface to the wetland data sheets.

Legend



Study Area

- Mesquite Grassland Mosaic
- Mesquite Woods
- Sumpweed Depressions
- Post Oak/ Cedar Elm Woods
- Riparian Woods
- Floodplain Meadows
- Forested Wetlands
- O Emergent Wetlands
- Scrub/Shrub Wetlands

Project Title: 130 ENVIRONMENTAL

PARK

Project Number: <USACE #>

Date: 08/2013 AVO: 29520

Sheet Title: NOTES FOR TRANSECTS

AND DATA POINTS MAP

Sheet Number: FIGURE B-2





Mesquite Grassland Mosaic This was one of the most frequently encountered vegetation communities within the study area. Dominant vegetation included mesquite scrub, prickly pear, pencil cactus, Texas persimmon, agarita, Texas wintergrass, lemon bee balm, and plains coreopsis.



Mesquite Woods

This community was similar to the mesquite grassland mosaic, and occurred at the transition to more wooded areas. Dominant vegetation in this community included large mesquite trees, cedar elm, post oak, hackberry, agarita, Texas persimmon, prickly pear, pencil cactus, and Texas wintergrass.



Sumpweed Depression Wetlands Dominant vegetation in this community included sumpweed and common spikerush. These depressions were emergent wetlands occurring in terraced areas of the surrounding uplands and typically occurred within the mesquite grassland mosaic.

T1 - Page 1



Post Oak/ Cedar Elm Woods
Dominant vegetation in this
community included post oak,
cedar elm, yaupon holly, agarita,
deciduous holly, Texas persimmon,
mesquite, prickly pear, pencil
cactus, pink thoroughwort, Virginia
wild rye, slimleaf panicgrass, and
wild oat.



Riparian Woods (Cedar Elm/ Oak) – This community occurred along riparian corridors at higher elevations and in the upper reaches of ephemeral streams. Dominant vegetation included cedar elm, live oak, post oak, hackberry, giant ragweed, Virginia wild rye, Texas wintergrass, pink thoroughwort, itchgrass, and lean flatsedge.



Riparian Woods (Green Ash/ Pecan/ Hackberry)

This community occurred at lower elevations along the larger tributaries within the study area. Dominant vegetation included hackberry, green ash, pecan, Virginia wild rye, giant ragweed, and common greenbriar.



Floodplain Meadows

This vegetation complex occurred within the floodplain of Dry Creek, and appeared to be regularly mowed. Woody vegetation was sparse and limited to scattered cedar elm and bois d'arc. Dominant herbaceous vegetation included common ragweed, giant ragweed, ironweed, shortbeak sedge, rough cocklebur, annual canarygrass, bermudagrass, buffalograss, Virginia wild rye, and Carolina canarygrass.



Forested Wetlands – This community was observed at lower elevations within the study area. Herbaceous vegetation was moreor-less absent from this community and dominant woody species included green ash and cedar elm.



Emergent Wetlands (Pond Fringe) - This community occurred along the fringe of stock ponds and was typically surrounded by upland vegetation. Woody vegetation was more-or-less absent from this community with the exception of sesbania and the occasional mesquite or cedar elm at the wetland/ upland transition. Dominant herbaceous vegetation included common spikerush, flatstemmed spikerush, sumpweed, water-pepper, and manyspike flatsedge.

T1 - Page 3



Emergent Wetlands (Lacustrine Fringe) – These wetlands occurred along the shoreline and floodplain area of the large lake in the southern portion of the study area. Typical dominant vegetation included several species of spikerush, Pennsylvania smartweed, rough cocklebur, broadleaf arrowhead, and upright burhead.



Scrub/Shrub Wetlands –These wetlands occurred at higher elevations along the shoreline of the large lake in the southern portion of the study area. Typical dominant vegetation included sesbania, cedar elm, green ash, common spikerush, and sumpweed.

Project/Site: 130 Environmental Park		City/Co	ounty: _L	Lockhai	rt/Caldwell	Sampling	Date: 06/17	7/2013
Applicant/Owner: 130 Environmental Park, LLC		-			State: TX			
Investigator(s): Troegle, Josh & Littleton, Brandyn								
Landform (hillslope, terrace, etc.): Depression						е	Slope (%)	: 0-1
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5								
Are climatic / hydrologic conditions on the site typical for this		•						
Are Vegetation, Soil, or Hydrology si					Normal Circumstances" p		/es ✓ N	Jn
Are Vegetation, Soil, or Hydrology n					eded, explain any answer			
SUMMARY OF FINDINGS – Attach site map					-		,	es, etc.
Hydrophytic Vegetation Present? Yes ✓ No.	····							
		1		Sampled a Wetlar	,	No		
			WICHIII	a Wellai	iur les <u>· </u>	NO_		
Remarks:								
Marginal isolated wetland in an upland.								
VEGETATION – Use scientific names of plant	ts.					_		
	Absolute	Domi	inant In	ndicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30')	% Cover	Spec	cies? S	Status	Number of Dominant Sp			
1					That Are OBL, FACW, (excluding FAC-):	or FAC	1	(A)
2						-		. (11)
3					Total Number of Domina Species Across All Stra		1	(B)
4		= Tota	al Cover			_		. (-)
Sapling/Shrub Stratum (Plot size: 30'		. 0.0			Percent of Dominant Sp That Are OBL, FACW, of		100	(A/B)
1. Prosopis glandulosa	10	Yes		ACU	Prevalence Index work	cobooti		
2. Mahonia trifoliolata	10	Yes		VI OTT	Total % Cover of:		Multiply by:	
3. Zanthoxylum clava-herculis	5	Yes		PL	OBL species		•	_
4. Juniperus virginiana		140)FL	FACW species			_
5	35	- Tota	al Cover		FAC species			
Herb Stratum (Plot size: 30'		- 10ta	ai Covei		FACU species			
1. Iva annua	75	Yes	<u>F</u>	AC		x 5		_
2. Paspalum dilatatum	10	No		AC	Column Totals:	(A)		(B)
3. Coreopsis tinctoria	25	No		AC	Prevalence Index	= B/A =		
4. Eleocharis palustris	25	No)BL	Hydrophytic Vegetation			
5. Phanopyrum gymnocarpon 6. Carex brevior	20	No No		FAC	1 - Rapid Test for H			
7 Sporobolus compositus	35	No		JPL JPL	✓ 2 - Dominance Tes	t is >50%		
11-2					3 - Prevalence Inde	x is ≤3.0 ¹		
8 9					4 - Morphological A			
10.					data in Remarks		•	
	210	= Tota	al Cover	-	Problematic Hydron	-	-	•
Woody Vine Stratum (Plot size: 30') 1					¹ Indicators of hydric soil be present, unless distu			must
2.					Hydrophytic			
		= Tota	al Cover	•	Vegetation	. /	No	
% Bare Ground in Herb Stratum					Tes			
Sapling/shrubs at fringe of depression. Removed SA	AP/shrub t	from d	domina	nce test				
Cap.in.g. strange of aspisosion. Homovod of	, 5, 45	🗸			•			

Depth	cription: (Describe Matrix	to the depth		ument the lox Feature		or confirm	n the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1	10 YR 3/1	100					Clay	Dry
0-6	10 YR 6/1	25 1	0 YR 5/8	10	С	М	Clay	>50% Cobble
					-			
					- ——	-		
¹Type: C=C	oncentration, D=Dep	oletion, RM=F	teduced Matrix, (CS=Covere	ed or Coat	ed Sand G	rains. ² Lo	cation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all Li	RRs, unless oth	erwise no	ted.)			for Problematic Hydric Soils ³ :
Histoso	I (A1)		Sandy	Gleyed M	atrix (S4)		1 cm l	Muck (A9) (LRR I, J)
_	pipedon (A2)			Redox (S	•			Prairie Redox (A16) (LRR F, G, H)
_	istic (A3)			ed Matrix (,		_	Surface (S7) (LRR G)
	en Sulfide (A4)	E \		y Mucky M y Gleyed M	, ,			Plains Depressions (F16)
	d Layers (A5) (LRR uck (A9) (LRR F, G,			ted Matrix	, ,			RR H outside of MLRA 72 & 73) ced Vertic (F18)
	d Below Dark Surfac			Dark Surf				arent Material (TF2)
	ark Surface (A12)	,	_	ted Dark S	, ,	·)		Shallow Dark Surface (TF12)
Sandy N	Mucky Mineral (S1)		Redox	Depression	ons (F8)			(Explain in Remarks)
_	Mucky Peat or Peat			Plains Dep		-		of hydrophytic vegetation and
5 cm M	ucky Peat or Peat (S	3) (LRR F)	(M	ILRA 72 &	73 of LRI	R H)		d hydrology must be present,
D (11)	(:6				-		unless	s disturbed or problematic.
	Layer (if present):							
Type:								
Depth (in Remarks:	ches):			-			Hydric Soil	Present? Yes V No
Significant of the significant o	cobble fill in soil. (Sould not dig	g pit. Surface i	ayer is sn	allow to	cobble <1	inch.	
	drology Indicators:							
	cators (minimum of		check all that ap	(vla			Seconda	ary Indicators (minimum of two required)
	Water (A1)	Zijo roganoa,	Salt Crus					face Soil Cracks (B6)
	ater Table (A2)			nvertebrat	es (B13)			arsely Vegetated Concave Surface (B8)
Saturati			Hydroge		' '			inage Patterns (B10)
	farks (B1)			son Water)		dized Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		_ ·		,	, √ing Roots		vhere tilled)
_	posits (B3)		(where	not tilled)	ū	, ,	yfish Burrows (C8)
	at or Crust (B4)		Presence	e of Reduc	ed Iron (C	4)		uration Visible on Aerial Imagery (C9)
Iron De	oosits (B5)		Thin Mud					omorphic Position (D2)
Inundati	on Visible on Aerial	Imagery (B7)	Other (E	xplain in R	emarks)		FAC	C-Neutral Test (D5)
Water-S	stained Leaves (B9)						Fros	st-Heave Hummocks (D7) (LRR F)
Field Obser	vations:							
Surface Wat	er Present?	'es No	o ✓ Depth (i	inches):				
Water Table	Present?	'es No	Depth (i					
Saturation P	resent?	'es No	Depth (inches):		Wet	land Hydrolog	y Present? Yes <u>√</u> No
	pillary fringe)						if available.	
Describe Re	corded Data (stream	ı gauge, mon	toring well, aeria	i priotos, p	revious in	spections)	, ir available:	
Remarks:			-					
Marginal								
,,,a,g,,a								

Project/Site: 130 Environmental Park		Citv/Countv	Lockha	rt/Caldwell	Sampling Date: 06/17/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T1-DP2
Investigator(s): Troegle, Josh & Littleton, Brandyn					Camping Found
Landform (hillslope, terrace, etc.): Depression				-	/e olana (%), 1-2
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to					
Are climatic / hydrologic conditions on the site typical for this	-			•	
Are Vegetation, Soil, or Hydrology s	ignificantly	disturbed?	Are '	'Normal Circumstances"	present? Yes 🗸 No
Are Vegetation, Soil, or Hydrology n	aturally pro	blematic?	(If ne	eeded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	samplin	g point l	ocations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ N	^				
Hydric Soil Present? Yes ✓ N			e Sampled		
Wetland Hydrology Present? Yes ✓ N		with	in a Wetlar	nd? Yes <u>▼</u>	No
Remarks:					* 1
Marginal wetland in road drainage.					
VEGETATION – Use scientific names of plan					
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test work	
1. Prosopis glandulosa	10	Yes	FACU	Number of Dominant S That Are OBL, FACW,	
2.				(excluding FAC-):	3 (A)
3.				Total Number of Domir	nant
4.				Species Across All Stra	
	10	= Total Cov	 /er	Percent of Dominant S	naciae
Sapling/Shrub Stratum (Plot size: 15'				That Are OBL, FACW,	
1. Prosopis glandulosa	10	Yes	FACU	Prevalence Index wor	rkehoot:
2. Celtis laevigata	5	Yes	FAC	Total % Cover of:	
3					x 1 =
4					x 2 =
5	15				x 3 =
Herb Stratum (Plot size: 5'		= Total Cov	/er		x 4 =
1. Setaria parviflora	20	No	FAC		x 5 =
2. Sesbania drummondii	50	Yes	FACW	Column Totals:	(A) (B)
3. Cirsium texanum	2	No	NI		
4. Phyla lanceolata	2	No	FACW		c = B/A =
5. Iva annua	35	Yes	FAC	Hydrophytic Vegetati	
6. Ambrosia artemisiifolia	2	No	FACU		Hydrophytic Vegetation
7. Phanopyrum gymnocarpon	5	No	OBL	2 - Dominance Tes	I I
8. Ambrosia trifida	2	No	FAC	1	Adaptations ¹ (Provide supporting
9. Eleocharis palustris	20	No	OBL		s or on a separate sheet)
10				Problematic Hydro	phytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30')	138	= Total Co	/er	Indicators of hydric so	il and wetland hydrology must
1. Smilax rotundifolia	10	Yes	FAC	be present, unless dist	
2.				Hydrophytic	
	10	= Total Cov	/er	Vegetation	,
% Bare Ground in Herb Stratum 5				Present? Ye	es No
Remarks:					
Mesquite scrub located at wetland margin; not include	ded in dom	ninance te	st.		

Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type ¹	Loc ²	Texture	Remarks
0-1	10 YR 3/1	90	10 YR 5/7	10	C	M	Clay	
0-3	10 YR 5/1	60	10 YR 6/1	20	- D	_ <u>M</u>		
	10 110 0/1		5 YR 4/8	20	- - - - -	- M		
>4		90	011(4/0			- 141		Gravel
>4								Graver
			1=Reduced Matrix, C			ted Sand G		ation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (App	licable to al	I LRRs, unless oth	erwise no	ted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol				Gleyed M				luck (A9) (LRR I, J)
	pipedon (A2) istic (A3)			Redox (S ed Matrix (_	Prairie Redox (A16) (LRR F, G, H) urface (S7) (LRR G)
	en Sulfide (A4)			Mucky M)		ains Depressions (F16)
	d Layers (A5) (LR I	RF)	Loamy	Gleyed M	/latrix (F2)	,		R H outside of MLRA 72 & 73)
	uck (A9) (LRR F, C		✓ Deplet		. ,			ed Vertic (F18)
	d Below Dark Surf	ace (A11)		Dark Sur ed Dark S		7)		rent Material (TF2) hallow Dark Surface (TF12)
	ark Surface (A12) /lucky Mineral (S1))		Depressi		' /		Explain in Remarks)
	Mucky Peat or Pea		_	lains Dep	, ,	F16)		of hydrophytic vegetation and
5 cm Mu	ucky Peat or Peat	(S3) (LRR F	(M	LRA 72 &	73 of LR	RH)		I hydrology must be present,
	(1)						unless	disturbed or problematic.
	Layer (if present)	:						
Type: Gr							1	
Double /in	-h\. 4"						Hydric Soil	Propent? Vac √ No
Depth (in Remarks:	ches): 4"						Hydric Soil	Present? Yes ✓ No
Remarks:							Hydric Soil	Present? Yes ✓ No
Remarks:		rs:			-		Hydric Soil	Present? Yes <u>√</u> No
Remarks: IYDROLO Wetland Hy	GY drology Indicator		ed; check all that ap	oly)				
Remarks: IYDROLO Wetland Hy Primary Indi Surface	GY drology Indicator cators (minimum o Water (A1)		Salt Crus	st (B11)			Seconda Surfa	ry Indicators (minimum of two required) ace Soil Cracks (B6)
Remarks: IYDROLO Wetland Hy Primary Indi Surface High Wa	GY drology Indicator cators (minimum o Water (A1) ater Table (A2)		Salt Crus	st (B11) nvertebrat	, ,		Seconda Surfa Spar	ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8)
Remarks: IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati	GY drology Indicator cators (minimum o Water (A1) ater Table (A2) on (A3)		Salt Crus Aquatic I Hydroge	st (B11) nvertebrat n Sulfide (Odor (C1)		Seconda Surfa Spar Drain	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10)
IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M	drology Indicator cators (minimum o Water (A1) ater Table (A2) on (A3) larks (B1)		Salt Crus Aquatic I Hydroge Dry-Seas	st (B11) nvertebrat n Sulfide (son Water	Odor (C1) Table (C	-	Seconda Surfa Spar ✓ Drain Oxid	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3
IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M	drology Indicator cators (minimum o Water (A1) ater Table (A2) on (A3) tarks (B1) nt Deposits (B2)		Salt Crus Aquatic I Hydroge Dry-Seas Oxidized	st (B11) nvertebrat n Sulfide (son Water Rhizosph	Odor (C1) Table (Ca eres on L	2) iving Roots	Seconda Surfa Spar Drain Oxid(C3) (w	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3 here tilled)
IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimee Drift De	drology Indicator cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)		Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where	st (B11) nvertebrat n Sulfide (son Water Rhizosph	Odor (C1) Table (Ca eres on L	iving Roots	Seconda Surfa Spar Oxid Oxid (C3) (w Cray	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3 here tilled)
IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel Drift De Algal Ma	drology Indicator cators (minimum o Water (A1) ater Table (A2) on (A3) tarks (B1) nt Deposits (B2)		Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence	st (B11) nvertebrat n Sulfide (son Water Rhizosph	Odor (C1) Table (C2 eres on L I) ced Iron (C	iving Roots	Seconda Surfa Spar Oxid (C3) (w Cray Satu	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3 here tilled)
Remarks: IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift Del Algal Ma	drology Indicator cators (minimum o Water (A1) ater Table (A2) on (A3) tarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	f one requin	Salt Crus Aquatic I Hydroge Dry-Seas Oxidized	st (B11) nvertebrat n Sulfide (son Water Rhizosph e not tilled	Odor (C1) Table (C: eres on L i) ced Iron (C) (C7)	iving Roots	Seconda Surfa Span Oxid Oxid (C3) (w Cray Satu Geo	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3 here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9)
Remarks: IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift Del Algal Ma Iron Del	drology Indicator cators (minimum of Water (A1) ater Table (A2) on (A3) tarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	one requir	Salt Crus Aquatic I Hydroge Dry-Seas Oxidized	st (B11) nvertebrat n Sulfide (son Water Rhizosph not tilled of Reduct k Surface	Odor (C1) Table (C: eres on L i) ced Iron (C) (C7)	iving Roots	Seconda Surfa Span Oxid Cray Cray Satu Geo FAC	ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3 here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Remarks: IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron De Inundati Water-S	drology Indicator cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeric	one requir al Imagery (Salt Crus Aquatic I Hydroge Dry-Seas Oxidized	st (B11) nvertebrat n Sulfide (son Water Rhizosph not tilled of Reduct k Surface	Odor (C1) Table (C: eres on L i) ced Iron (C (C7) Remarks)	iving Roots	Seconda Surfa Span Oxid Cray Cray Satu Geo FAC	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3 here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5)
IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dej Inundati Water-S Field Obser	drology Indicators (minimum of cators (minimum of c	al Imagery (Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Muc	st (B11) nvertebrat n Sulfide (son Water Rhizosph not tilled of Reduct k Surface xplain in R	Odor (C1) Table (C; eres on L i) ced Iron (C) (C7) Remarks)	iving Roots	Seconda Surfa Span Oxid Cray Cray Satu Geo FAC	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3 here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5)
Remarks: IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron De Inundati Water-S Field Obser Surface Wat	drology Indicator cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeric stained Leaves (B5) vations: er Present?	al Imagery (Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Muc B7) Other (E	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled e of Reduc ck Surface xplain in F	Odor (C1) Table (C2) eres on L I) ced Iron (C2) (C7) Remarks)	iving Roots	Seconda Surfa Spar Oxid (C3) (w Cray Satu Geor FAC Fros	ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized 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: IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron De Inundati Water-S Field Obser Surface Wat Water Table Saturation P	drology Indicator cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeric stained Leaves (B5) vations: er Present? Present?	al Imagery (Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Muc	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled e of Reduc ck Surface xplain in F	Odor (C1) Table (C2) eres on L I) ced Iron (C2) (C7) Remarks)	iving Roots	Seconda Surfa Spar Oxid (C3) (w Cray Satu Geor FAC Fros	ry Indicators (minimum of two required) ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (C3 here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5)
IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Iron Del Inundati Water-S Field Obser Surface Wat Water Table Saturation Pel (includes ca	drology Indicator cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeric stained Leaves (B5) vations: er Present? Present? resent?	al Imagery (Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Muc B7) Other (E	st (B11) nvertebrat n Sulfide (son Water Rhizosph not tilled of Reduct k Surface xplain in R nches): nches): nches):	Odor (C1) Table (C; eres on L i) ced Iron (C) (C7) Remarks)	iving Roots C4) Wet	Seconda Surfa Spar Spar Oxid (C3) (w Cray Satu Geo FAC Fros	ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized 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)
IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Iron Del Inundati Water-S Field Obser Surface Wat Water Table Saturation Pel (includes ca	drology Indicator cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeric stained Leaves (B5) vations: er Present? Present? resent?	al Imagery (Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Muc B7) Other (E	st (B11) nvertebrat n Sulfide (son Water Rhizosph not tilled of Reduct k Surface xplain in R nches): nches): nches):	Odor (C1) Table (C; eres on L i) ced Iron (C) (C7) Remarks)	iving Roots C4) Wet	Seconda Surfa Spar Spar Oxid (C3) (w Cray Satu Geo FAC Fros	ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized 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: HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Algal Ma Iron Dep Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes ca	drology Indicator cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeric stained Leaves (B5) vations: er Present? Present? resent?	al Imagery (Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Muc B7) Other (E	st (B11) nvertebrat n Sulfide (son Water Rhizosph not tilled of Reduct k Surface xplain in R nches): nches): nches):	Odor (C1) Table (C; eres on L i) ced Iron (C) (C7) Remarks)	iving Roots C4) Wet	Seconda Surfa Spar Spar Oxid (C3) (w Cray Satu Geo FAC Fros	ry Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized 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: IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Iron Dep Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	drology Indicator cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeric stained Leaves (B5) vations: er Present? Present? resent?	al Imagery (Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Muc B7) Other (E	st (B11) nvertebrat n Sulfide (son Water Rhizosph not tilled of Reduct k Surface xplain in R nches): nches): nches):	Odor (C1) Table (C; eres on L i) ced Iron (C) (C7) Remarks)	iving Roots C4) Wet	Seconda Surfa Spar Spar Oxid (C3) (w Cray Satu Geo FAC Fros	ry Indicators (minimum of two required ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) ized 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)

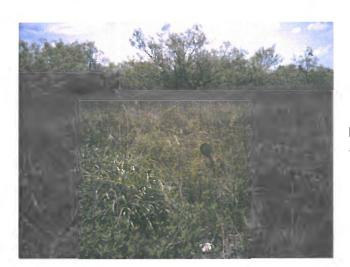
Project/Site: 130 Environmental Park		City/County	Lockhai	rt/Caldwell	Sampling Date: 0	6/17/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandyn						
Landform (hillslope, terrace, etc.): None					Slope	e (%): 0-1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5				NWI classifica		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology si				Normal Circumstances" pr	_	No
Are Vegetation, Soil, or Hydrology na			(If ne	eded, explain any answers	s in Remarks.)	
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	g point le	ocations, transects,	important fea	itures, etc.
Hydrophytic Vegetation Present? Yes No	√			•		
Hydric Soil Present? Yes No			e Sampled in a Wetlar		No <u></u> ✓	
Wetland Hydrology Present? Yes No	<u>√</u>	With	iii a vvetiai	iu? Tes	No	
Remarks:						
VEGETATION – Use scientific names of plant	s.					
-	Absolute	Dominant	Indicator	Dominance Test works	sheet:	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Sp	ecies	
1				That Are OBL, FACW, o (excluding FAC-):	r FAC 0	(A)
2				(excluding 1 AC-).		(A)
3				Total Number of Domina Species Across All Strate	2	(B)
4					a	(b)
Sapling/Shrub Stratum (Plot size: 15'		≃ Total Co	ver	Percent of Dominant Spe That Are OBL, FACW, o		(A/B)
1. Prosopis glandulosa	40	Yes	FACU			(,,,,,
2	47.4			Prevalence Index work		
3				Total % Cover of:		
4				OBL species		
5				FAC species		
Herb Stratum (Plot size: 5')	40	= Total Co	ver	FACU species		
1 Monarda citriodora	60	Yes	NI	UPL species		
2. Nassella leucotricha	15	No	NI	Column Totals:		
3. Amphiachyris dracunculoides	50	Yes	NI			
4				Prevalence Index Hydrophytic Vegetation		
5				1 - Rapid Test for H		tion
6				2 - Dominance Test	, , , ,	uon
7				3 - Prevalence Inde		
8				4 - Morphological Ad		le supporting
9				data in Remarks	or on a separate s	sheet)
10	125			Problematic Hydrop	hytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30'		= Total Co		¹ Indicators of hydric soil be present, unless distu	and wetland hydro	ology must c.
1				Hydrophytic		
		= Total Co	ver	Vegetation	,	
% Bare Ground in Herb Stratum				Present? Yes	No √	_
Remarks:						
						0.0

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						or confirm	n the absence of i	ndicators.)
Depth (inches)	Color (moist)		Color (moist)	ox Feature %		Loc ²	Texture	Remarks
11101103/								
				-				
	Concentration, D=[ed Sand G		n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (App	olicable to all L						Problematic Hydric Soils ³ :
Histoso				Gleyed Ma				(A9) (LRR I, J)
_	pipedon (A2)			Redox (S	•			rie Redox (A16) (LRR F, G, H)
	listic (A3)			d Matrix (56) neral (F1)			ice (S7) (LRR G) s Depressions (F16)
	en Sulfide (A4) ed Layers (A5) (LR	RF)		Gleyed M				l outside of MLRA 72 & 73)
	uck (A9) (LRR F,			ed Matrix (Reduced \	-
_	ed Below Dark Sur			Dark Surf	,			nt Material (TF2)
	ark Surface (A12)				urface (F7)		ow Dark Surface (TF12)
	Mucky Mineral (S1			Depression	. ,			olain in Remarks)
_	Mucky Peat or Pe				essions (F			ydrophytic vegetation and
5 cm M	ucky Peat or Peat	(S3) (LRR F)	(MI	-KA /2 &	73 of LRF	(H)		drology must be present, turbed or problematic.
Postrictivo	Layer (if present	٠.				-	uniess dis	dibed of problematic.
Type:	nches):		_				Hydric Soil Pre	sent? Yes No ✓
, ,	icries).						Tryune don't le	30111 103 110
Remarks:								
HYDROLC	OGY							
	drology Indicate							
Primary Indi	icators (minimum	of one required;	check all that app	ly)			Secondary I	ndicators (minimum of two required)
Surface	Water (A1)		Salt Crus	t (B11)			_	Soil Cracks (B6)
High W	ater Table (A2)			rvertebrate	` '		Sparsel	y Vegetated Concave Surface (B8)
Saturat	ion (A3)		Hydrogen					e Patterns (B10)
_	Marks (B1)				Table (C2	-	_	d Rhizospheres on Living Roots (C3)
Sedime	ent Deposits (B2)					ing Roots		e tilled)
	eposits (B3)		•	not tilled	•			Burrows (C8)
	lat or Crust (B4)		_		ed Iron (C	4)		on Visible on Aerial Imagery (C9)
_	posits (B5)		_	k Surface				rphic Position (D2)
_	tion Visible on Aer		Other (Ex	plain in R	emarks)		_	eutral Test (D5)
	Stained Leaves (B	9)					Frost-H	eave Hummocks (D7) (LRR F)
Field Obse				h c = \				
	ter Present?		o Depth (ir					
Water Table	e Present?		o Depth (ii					
Saturation F		Yes N	o Depth (ii	nches):		Wet	land Hydrology Pi	resent? Yes No ✓
Describe Re	pillary fringe) ecorded Data (stre	eam gauge, mor	itoring well, aerial	photos, p	revious in	spections)	, if available:	
5000/150 / 10	() , , , , , , , , , , , , , , , , , ,	00.,						
Remarks:								



Data Point 1 Sumpweed Depressions



Data Point 1 Sumpweed Depressions



Data Point 2 Sumpweed Depressions

T1 – Page 1



Data Point 2 Sumpweed Depressions



Data Point 3 Mesquite Grassland Mosaic



Data Point 3 Mesquite Grassland Mosaic

T1 - Page 2

Project/Site: 130 Environmental Park		Citv/Co	ountv: L	.ockhai	rt/Caldwell	Sampling Date: 06/	17/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX	· -	
Investigator(s): Troegle, Josh & Littleton, Brandyn							
Landform (hillslope, terrace, etc.): Hillslope						Slope (%): 1- 2
Subregion (LRR): J - Southwestern Prairies							
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to							
Are climatic / hydrologic conditions on the site typical for th							
Are Vegetation, Soil, or Hydrology	-				Normal Circumstances"	•	No
Are Vegetation, Soil, or Hydrology							. NO
SUMMARY OF FINDINGS – Attach site map					eded, explain any answe	·	ires etc
				-		, important route	1100, 010.
Hydrophytic Vegetation Present? Yes N	10		Is the S	Sampled	Area		
Hydric Soil Present? Yes Noticed Hydrology Present?	10 <u>v</u>		within a	a Wetlar	nd? Yes	No <u>√</u>	
Wetland Hydrology Present? Yes N	40 <u>A</u>						
Remarks.							
VEGETATION – Use scientific names of plan	nts.						
201	Absolute		inant Ind		Dominance Test work	(sheet:	
Tree Stratum (Plot size: 30'	% Cover 5	Spec Yes		ACU	Number of Dominant S		
1. Prosopis glandulosa				ACU _	That Are OBL, FACW, (excluding FAC-):	or FAC 0	(A)
2		_					(, ,
3					Total Number of Domir Species Across All Stra	4	(B)
4	5	= Tota	al Cover				
Sapling/Shrub Stratum (Plot size: 15')		- 1014	11 00401		Percent of Dominant S That Are OBL, FACW,		(A/B)
1. Prosopis glandulosa	_ 40	Yes		ACU	Prevalence Index wor		
2. Mahonia trifoliolata	5	No	N	II		Ksneet:Multiply by	
3					OBL species		
4					FACW species		
5	45				FAC species		
Herb Stratum (Plot size: 5'		= rota	al Cover		FACU species		
1. Opuntia engelmannii	25	Yes	N.	II	UPL species	x 5 =	
2. Nassella leucotricha	75	Yes	N.	I	Column Totals:		(B)
3. Cylindropuntia leptocaulis	5	No	N	I	Drovelones Index	- D/A -	
4. Coreopsis tinctoria	15	No		AC	Hydrophytic Vegetati	c = B/A =	
5. Aristida purpurea	_ 5	No	N	11	1 - Rapid Test for		n
6					2 - Dominance Tes	_	•
7					3 - Prevalence Ind		
8						Adaptations ¹ (Provide s	supporting
9					data in Remark	s or on a separate she	et)
10	125	T.4.			Problematic Hydro	phytic Vegetation ¹ (Ex	plain)
Woody Vine Stratum (Plot size: 30'	125	_= 10ta	al Cover		¹ Indicators of hydric so	il and wetland hydrolog	gy must
1	_				be present, unless dist	urbed or problematic.	
2.					Hydrophytic		
		= Tota	al Cover		Vegetation Present? Yes	es No	
% Bare Ground in Herb Stratum					r resent fe	.5 0/I	_
Remarks:							

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Profile Des	cription: (Descri	e to the depth n				or confirm	n the absence of in	dicators.)
Depth	Matrix	% (Red Color (moist)	ox Feature		1002	Texture	Remarks
(inches)	Color (moist)		Joior (moist)		Туре	LUC	rexture	Remarks
					_			
							2	
	Concentration, D=D					d Sand G		n: PL=Pore Lining, M=Matrix.
-	Indicators: (App	licable to all LRF						Problematic Hydric Soils ³ :
Histoso	, ,			Gleyed Ma			1 cm Muck	
_	pipedon (A2)		Sandy	•				ie Redox (A16) (LRR F, G, H)
Black H				ed Matrix (\$ Mucky Mi				ce (S7) (LRR G) Depressions (F16)
	en Sulfide (A4) d Layers (A5) (LR	D E/		Gleyed M	, ,			outside of MLRA 72 & 73)
	uck (A9) (LRR F, (ed Matrix (Reduced V	
	ed Below Dark Sur		Redox				Red Parent	
	ark Surface (A12)			ed Dark Si		1		w Dark Surface (TF12)
	Mucky Mineral (S1		Redox	Depression	ns (F8)			ain in Remarks)
	Mucky Peat or Pea) High P	lains Depr	essions (F	16)	3Indicators of hy	drophytic vegetation and
5 cm M	ucky Peat or Peat	(S3) (LRR F)	(M	LRA 72 &	73 of LRR	(H)	wetland hyd	Irology must be present,
							unless distu	urbed or problematic.
Restrictive	Layer (if present):						
Type:								
Depth (in	nches):		_				Hydric Soil Pres	sent? Yes No ✓
Remarks:			_	.,				
			111111111111111111111111111111111111111	-				
HYDROLC	OGY							
Wetland Hy	drology Indicato	rs:						
Primary Indi	icators (minimum o	of one required; ch	eck all that app	oly)			Secondary In	dicators (minimum of two required)
Surface	Water (A1)		Salt Crus	st (B11)			Surface :	Soil Cracks (B6)
— High W	ater Table (A2)		Aquatic I	nvertebrate	es (B13)		Sparsely	Vegetated Concave Surface (B8)
	ion (A3)		Hydrogei	n Sulfide C	dor (C1)		Drainage	Patterns (B10)
Water N	Marks (B1)		Dry-Seas	son Water	Table (C2)	+	Oxidized	Rhizospheres on Living Roots (C3)
_	ent Deposits (B2)		Oxidized	Rhizosphe	eres on Liv	ing Roots	(C3) (where	e tilled)
	posits (B3)		(where	not tilled)	-	Crayfish	Burrows (C8)
	at or Crust (B4)		Presence	of Reduc	ed Iron (C	1)	Saturation	on Visible on Aerial Imagery (C9)
	posits (B5)			k Surface	-	,		phic Position (D2)
	ion Visible on Aeri	al Imagery (B7)	_	xplain in R	` '			utral Test (D5)
_	Stained Leaves (B			.,	,			ave Hummocks (D7) (LRR F)
Field Obser	•				-			
		Yes No	Denth (i	nchee).				
	ter Present?							
Water Table		Yes No						
Saturation F		Yes No	Depth (i	nches):		Wet	and Hydrology Pre	esent? Yes No
(Includes ca	pillary fringe) ecorded Data (stre	am gauge monito	ring well, aeria	I photos, p	revious ins	spections)	if available:	
Peacing IVE	conduction batta (alle	and gauge, monte		. го.оо, р		,		
D								
Remarks:								

Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	Sampling Date: 06/17/2013
Applicant/Owner: 130 Environmental Park, LLC		-			Sampling Point: T2-DP2
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Drainage					e Slope (%): 2-5
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to					
Are climatic / hydrologic conditions on the site typical for thi					
Are Vegetation, Soil, or Hydrologys					oresent? Yes ✓ No
Are Vegetation, Soil, or Hydrology r				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map					•
Hydrophytic Vegetation Present? Yes N	lo 🗸				
Hydric Soil Present? Yes N		- 1	e Sampled		/
Wetland Hydrology Present? Yes N	lo 🗸	with	in a Wetlar	nd? Yes	No <u> </u>
Remarks:					
VECTATION . He asignifican areas of plants	4-			***	
VEGETATION – Use scientific names of plan		D	I disates	I Danis - Taring	1
Tree Stratum (Plot size: 30'	Absolute % Cover	Dominant Species?		Dominance Test work	
1. Quercus virginiana	35	Yes	FACU	Number of Dominant S That Are OBL, FACW,	or FAC
2. Fraxinus texensis	5	No	NI	(excluding FAC-):	<u>2</u> (A)
3. Ulmus crassifolia	15	Yes	FAC	Total Number of Domin	
4. Prosopis glandulosa	15	Yes	FACU	Species Across All Stra	ata: <u>8</u> (B)
151	70	= Total Cov	/er	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 15'	30	Yes	FAC	That Are OBL, FACW,	or FAC: 25 (A/B)
Ulmus crassifolia Crataegus spathulata	10	No	FAC	Prevalence Index wor	ksheet:
3. Prosopis glandulosa	40	Yes	FACU	Total % Cover of:	Multiply by:
4. Mahonia trifoliolata	10	No	NI	OBL species	x 1 =
5				FACW species	x 2 =
0	90	= Total Cov	/er	FAC species	x 3 =
Herb Stratum (Plot size: 5'				FACU species	x 4 =
1. Nassella leucotricha	75	Yes	NI		x 5 =
2. Rudbeckia hirta		Yes	FACU	Column Totals:	(A) (B)
3	- ——			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 Inde	ex is ≤3.0 ¹
9.				4 - Morphological A	Adaptations ¹ (Provide supporting
10.					s or on a separate sheet)
10.	95	= Total Cov	/er	Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30'					il and wetland hydrology must
1. Smilax rotundifolia	40	Yes	FAC	be present, unless distr	inced or problematic.
2				Hydrophytic	
% Bare Ground in Herb Stratum	40	= Total Cov	/er	Vegetation Present? Ye	s No
Remarks:					

Profile Description: (Description Material Mater	rix	Redox Features		
(inches) Color (mois		olor (moist) % Type ¹	Loc ² Texture	Remarks
				_
Type: C=Concentration, D=	Depletion, RM=Red	uced Matrix, CS=Covered or Coated	Sand Grains. ² L	ocation: PL=Pore Lining, M=Matrix.
		s, unless otherwise noted.)		rs for Problematic Hydric Soils ³ :
Histosol (A1)	•	Sandy Gleyed Matrix (S4)	1 cn	n Muck (A9) (LRR I, J)
Histic Epipedon (A2)		Sandy Redox (S5)		st Prairie Redox (A16) (LRR F, G, H)
Black Histic (A3)		Stripped Matrix (S6)		k Surface (S7) (LRR G)
Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Plains Depressions (F16)
Stratified Layers (A5) (L	RR F)	Loamy Gleyed Matrix (F2)		LRR H outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F.		Depleted Matrix (F3)		luced Vertic (F18)
Depleted Below Dark Su		Redox Dark Surface (F6)		Parent Material (TF2)
Thick Dark Surface (A12		Depleted Dark Surface (F7)		y Shallow Dark Surface (TF12)
Sandy Mucky Mineral (S	*	Redox Depressions (F8)		er (Explain in Remarks)
2.5 cm Mucky Peat or P				ors of hydrophytic vegetation and
5 cm Mucky Peat or Pea		(MLRA 72 & 73 of LRR H		and hydrology must be present,
0 0,,, 0 0, . 0 0, . 0 0	(00) (=1111)	,		ess disturbed or problematic.
	nt):			
Restrictive Laver (IT breser				
Restrictive Layer (if preser				
Туре:			Undrie C	oil Decomet2. Voc. No. √
Type: Depth (inches):			Hydric S	oil Present? Yes No
Туре:			Hydric S	oil Present? Yes No ✓
Type: Depth (inches):			Hydric S	oil Present? Yes No ✓
Type: Depth (inches):			Hydric S	oil Present? Yes No ✓
Type: Depth (inches): Remarks:			Hydric S	oil Present? Yes No ✓
Type: Depth (inches): Remarks:			Hydric S	oil Present? Yes No ✓
Type: Depth (inches): Remarks: YDROLOGY			Hydric S	oil Present? Yes No ✓
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicate	ors:	eck all that apply)		
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicates Primary Indicators (minimum	ors:		Secon	ndary Indicators (minimum of two required
Type:	ors:	Salt Crust (B11)	Secon	ndary Indicators (minimum of two required
Type:	ors:	Salt Crust (B11) Aquatic Invertebrates (B13)	Secor S S	ndary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Type:	ors:	Salt Crust (B11)	Secor S S D	ndary Indicators (minimum of two required Burface Soil Cracks (B6) Bparsely Vegetated Concave Surface (B8) Brainage Patterns (B10)
Type:	ors:	Salt Crust (B11) Aquatic Invertebrates (B13)	Secor S S D	ndary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Type:	ors: of one required; che	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secon S S D	ndary Indicators (minimum of two required Burface Soil Cracks (B6) Bparsely Vegetated Concave Surface (B8) Brainage Patterns (B10)
Type:	ors: of one required; che	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living	Secon S S C C C C C Roots (C3)	ndary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Orainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C (where tilled)
Type:	ors: of one required; che	 Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) 	Secor S S C C g Roots (C3)	ndary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Orainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C (where tilled)
Type:	ors: of one required; che	 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) 	Secor S S C C C C C	ndary Indicators (minimum of two required burface Soil Cracks (B6) Eparsely Vegetated Concave Surface (B8) Orainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C (where tilled) Crayfish Burrows (C8) Esturation Visible on Aerial Imagery (C9)
Type:	ors: of one required; che	 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) 	Secor S S C C C C S C S	ndary Indicators (minimum of two required furface Soil Cracks (B6) sparsely Vegetated Concave Surface (B8) drainage Patterns (B10) dividized Rhizospheres on Living Roots (C (where tilled) drayfish Burrows (C8) drayfish Burrows (C8) drayfish Visible on Aerial Imagery (C9) decomorphic Position (D2)
Type:	ors: of one required; che	 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) 	Secor S S C C C S C S C S	ndary Indicators (minimum of two required burface Soil Cracks (B6) sparsely Vegetated Concave Surface (B8) brainage Patterns (B10) bixidized Rhizospheres on Living Roots (C (where tilled) Crayfish Burrows (C8) saturation Visible on Aerial Imagery (C9) secomorphic Position (D2) (AC-Neutral Test (D5)
Type:	ors: of one required; che	 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) 	Secor S S C C C S C S C S	ndary Indicators (minimum of two required furface Soil Cracks (B6) sparsely Vegetated Concave Surface (B8) drainage Patterns (B10) dividized Rhizospheres on Living Roots (C (where tilled) drayfish Burrows (C8) drayfish Burrows (C8) drayfish Visible on Aerial Imagery (C9) decomorphic Position (D2)
Type:	ors: of one required; che	 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) 	Secor S S C C C S C S C S	ndary Indicators (minimum of two required burface Soil Cracks (B6) sparsely Vegetated Concave Surface (B8) orainage Patterns (B10) oxidized Rhizospheres on Living Roots (Concaveration (Concaveration) (Cayfish Burrows (C8) saturation Visible on Aerial Imagery (C9) openorphic Position (D2) (AC-Neutral Test (D5)
Type:	ors: of one required; che erial 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) Thin Muck Surface (C7) Other (Explain in Remarks) 	Secor S S C C C S S S S S	ndary Indicators (minimum of two required burface Soil Cracks (B6) sparsely Vegetated Concave Surface (B8) orainage Patterns (B10) oxidized Rhizospheres on Living Roots (Concaveration (Concaveration) (Cayfish Burrows (C8) saturation Visible on Aerial Imagery (C9) openorphic Position (D2) (AC-Neutral Test (D5)
Type:	ors: of one required; che erial Imagery (B7) B9) Yes No _	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living	Secon S S C C C C C _	ndary Indicators (minimum of two required burface Soil Cracks (B6) sparsely Vegetated Concave Surface (B8) orainage Patterns (B10) oxidized Rhizospheres on Living Roots (Concaveration (Concaveration) (Cayfish Burrows (C8) saturation Visible on Aerial Imagery (C9) openorphic Position (D2) (AC-Neutral Test (D5)
Type:	ors: of one required; che rial Imagery (B7) B9) Yes No _ 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) Depth (inches): Depth (inches):	Secor S S S S S S S S S S S S S S S S S S S	ndary Indicators (minimum of two required burface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) prainage Patterns (B10) poxidized Rhizospheres on Living Roots (Concaver tilled) prayfish Burrows (C8) paturation Visible on Aerial Imagery (C9) presented to the concaver of the co
Type:	ors: of one required; che rial Imagery (B7) B9) Yes No _ Yes No _	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living	Secor S S S S S S S S S S S S S S S S S S S	ndary Indicators (minimum of two required burface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) prainage Patterns (B10) poxidized Rhizospheres on Living Roots (Concaver tilled) prayfish Burrows (C8) paturation Visible on Aerial Imagery (C9) presented to the concaver of the co
Type:	ors: of one required; che erial Imagery (B7) B9) Yes No _ Yes No _ 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) Depth (inches): Depth (inches): Depth (inches):	Secon S S S S S S S S S S S S S S S S S S F F F F Wetland Hydrol	ndary Indicators (minimum of two required burface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) prainage Patterns (B10) poxidized Rhizospheres on Living Roots (Concaverable) prayfish Burrows (C8) paturation Visible on Aerial Imagery (C9) promorphic Position (D2) prost-Heave Hummocks (D7) (LRR F) progy Present? Yes No ✓
Type:	ors: of one required; che erial Imagery (B7) B9) Yes No _ Yes No _ 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) Depth (inches): Depth (inches):	Secon S S S S S S S S S S S S S S S S S S F F F F Wetland Hydrol	ndary Indicators (minimum of two required burface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) prainage Patterns (B10) poxidized Rhizospheres on Living Roots (Concaverable) prayfish Burrows (C8) paturation Visible on Aerial Imagery (C9) promorphic Position (D2) prost-Heave Hummocks (D7) (LRR F) progy Present? Yes No ✓
Type:	ors: of one required; che erial Imagery (B7) B9) Yes No _ Yes No _ 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) Depth (inches): Depth (inches): Depth (inches):	Secon S S S S S S S S S S S S S S S S S S F F F F Wetland Hydrol	ndary Indicators (minimum of two required burface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) prainage Patterns (B10) poxidized Rhizospheres on Living Roots (Concaverable) prayfish Burrows (C8) paturation Visible on Aerial Imagery (C9) promorphic Position (D2) prost-Heave Hummocks (D7) (LRR F) progy Present? Yes No ✓
Type:	ors: of one required; che erial Imagery (B7) B9) Yes No _ Yes No _ 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) Depth (inches): Depth (inches): Depth (inches):	Secon S S S S S S S S S S S S S S S S S S F F F F Wetland Hydrol	ndary Indicators (minimum of two required burface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) prainage Patterns (B10) poxidized Rhizospheres on Living Roots (Concaverable) prayfish Burrows (C8) paturation Visible on Aerial Imagery (C9) promorphic Position (D2) prost-Heave Hummocks (D7) (LRR F) progy Present? Yes No ✓
Type:	ors: of one required; che erial Imagery (B7) B9) Yes No _ Yes No _ 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) Depth (inches): Depth (inches): Depth (inches):	Secon S S S S S S S S S S S S S S S S S S F F F F Wetland Hydrol	ndary Indicators (minimum of two required burface Soil Cracks (B6) sparsely Vegetated Concave Surface (B8) Prainage Patterns (B10) Poxidized Rhizospheres on Living Roots (Concaveration

Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	Sampling Date: 06/17/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T2-DP3
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): None					Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to					
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrologys					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology n				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map			•		,
Hydrophytic Vegetation Present? Yes No	o √				
Hydric Soil Present? Yes No		1	e Sampled in a Wetlar		No <u>√</u>
Wetland Hydrology Present? Yes No	o <u> ✓</u>	With	iii a vvetiai	iur res	NO <u>·</u>
Remarks:					
VECETATION Lies esigntific names of plan	to		-		
VEGETATION – Use scientific names of plan		Demisses	la dia atau	Daminana Testurad	
Tree Stratum (Plot size: 30')	Absolute <u>% Cover</u>			Dominance Test work Number of Dominant S	
1				That Are OBL, FACW,	or FAC
2.				(excluding FAC-):	<u>0</u> (A)
3				Total Number of Domin	
4				Species Across All Stra	ata: <u>3</u> (B)
0 11 15 15 15 15 15 15 15 15 15 15 15 15		= Total Co	/er	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 15' 1. Prunus mexicana	20	N0	NI	That Are OBL, FACW,	or FAC: 0 (A/B)
2. Diospyros texana	20	No	NI	Prevalence Index wor	ksheet:
3. Prosopis glandulosa	80	Yes	FACU	Total % Cover of:	Multiply by:
4.					x 1 =
5					x 2 =
	120	= Total Co	ver	I	x 3 =
Herb Stratum (Plot size: 5'	15	Ma	NII		x 4 =
1. Opuntia engelmannii 2. Ambrosia artemisiifolia	40	No Yes	FACU	UPL species	x 5 =
3. Amphiachyris dracunculoides	10	No	NI	Column Totals:	(A) (B)
4 Cylindropuntia leptocaulis	5	No	NI	Prevalence Index	: = B/A =
5. Nassella leucotricha	30	Yes	NI	Hydrophytic Vegetation	on Indicators:
6				· ·	Hydrophytic Vegetation
7				2 - Dominance Tes	
8.				3 - Prevalence Inde	
9					Adaptations ¹ (Provide supporting s or on a separate sheet)
10				1	phytic Vegetation ¹ (Explain)
20!	100	= Total Co	ver		
Woody Vine Stratum (Plot size: 30') 1)				be present, unless distr	il and wetland hydrology must urbed or problematic.
2.				Hydrophytic	
		= Total Co	ver	Vegetation	/
% Bare Ground in Herb Stratum 15				Present? Ye	No
Remarks:					

Profile Description: (Describe to th	e depth needed to d	ocument the i	ndicator	or confirm	the absence of indicato	rs.)
Depth Matrix		Redox Features		Loc ²	Touturo	Domorko
(inches) Color (moist)	% Color (moist		Type ¹	LOC	Texture	Remarks
¹ Type: C=Concentration, D=Depletion	n RM=Reduced Matri	x. CS=Covered	d or Coate	d Sand Gr	rains. ² Location: PL=I	Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable				o cana ci	Indicators for Probler	
Histosol (A1)		ndy Gleyed Ma			1 cm Muck (A9) (L	•
Histic Epipedon (A2)		ndy Redox (S5				ox (A16) (LRR F, G, H)
Black Histic (A3)	Str	ipped Matrix (S	86)		Dark Surface (S7)	
Hydrogen Sulfide (A4)	Loa	amy Mucky Mir	neral (F1)		High Plains Depres	ssions (F16)
Stratified Layers (A5) (LRR F)		amy Gleyed Ma			•	e of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, G, H)		pleted Matrix (Reduced Vertic (F	•
Depleted Below Dark Surface (A12)	<u> </u>	dox Dark Surfa pleted Dark Su	` ,		Red Parent Materi	' '
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)		pieted Dark Su dox Depressio	, ,		Very Shallow Dark Other (Explain in F	
2.5 cm Mucky Peat or Peat (S2) (th Plains Depre	. ,	16)	3Indicators of hydrophy	
5 cm Mucky Peat or Peat (S3) (L		(MLRA 72 &			wetland hydrology	_
	,			•	unless disturbed o	•
Restrictive Layer (if present):				-		
Type:						
Depth (inches):					Hydric Soil Present?	Yes No <u>√</u>
Remarks:						
LINCORDI CON						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one re						s (minimum of two required)
Surface Water (A1)	_	Crust (B11)	(=)		Surface Soil Cra	, ,
High Water Table (A2)		tic Invertebrate				ated Concave Surface (B8)
Saturation (A3)		ogen Sulfide O			Drainage Patter	
Water Marks (B1)		Season Water	, ,			spheres on Living Roots (C3)
Sediment Deposits (B2)	_	zed Rhizosphe		ing Roots	, ,	
Drift Deposits (B3)	,	ere not tilled)		1)	Crayfish Burrow	
Algal Mat or Crust (B4)		ence of Reduce Muck Surface (+)		le on Aerial Imagery (C9)
Iron Deposits (B5)			, ,		Geomorphic Po FAC-Neutral Te	, ,
Inundation Visible on Aerial Imag	ery (Dr) Other	r (Explain in Re	anans)			mmocks (D7) (LRR F)
Water-Stained Leaves (B9)					riosi-neave nu	IIIIIIOCKS (D7) (LKK F)
Field Observations:	No. Des	th (inches)				
	No Dep					
1	No Dep					
	No Dep	th (inches):	·	_ Wetl	land Hydrology Present?	Yes No <u>√</u>
(includes capillary fringe) Describe Recorded Data (stream gau	ge, monitoring well, a	erial photos, pr	revious ins	spections),	if available:	
				,		
Remarks:						
Remarks:						
Remarks:						

Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	Sampling Date: 06/17/2	2013
Applicant/Owner: 130 Environmental Park, LLC		-			Sampling Point: T2-DP4	
Investigator(s): Troegle, Josh & Littleton, Brandyn						
Landform (hillslope, terrace, etc.): Flatland					Slope (%):	0-1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to						
Are climatic / hydrologic conditions on the site typical for this						
					resent? Yes <u>√</u> No _	
Are Vegetation, Soil, or Hydrologys						
Are Vegetation, Soil, or Hydrology r				eeded, explain any answer		
SUMMARY OF FINDINGS – Attach site map	showing	samplin	g point I	ocations, transects,	important features,	, etc.
Hydrophytic Vegetation Present? Yes N	o. √	15.44	ne Sampleo	l Aron		
Hydric Soil Present? Yes N	∘ <u> </u>	1	ie Sampied in a Wetlai		No <u>√</u>	
Wetland Hydrology Present? Yes N	∘ ✓	With	iii a weuai	iid: Tes	NO	
Remarks:		····		*****		
VEGETATION – Use scientific names of plan						
VEGETATION – Ose scientific flames of plan	Absolute	Dominant	Indicator	Dominance Test works	sheet:	
Tree Stratum (Plot size: 30'		Species?		Number of Dominant Sp		
1. Celtis laevigata	30	Yes	FAC	That Are OBL, FACW, o		
2. Prosopis glandulosa	60	Yes	FACU	(excluding FAC-):	3	(A)
3				Total Number of Domina		
4	-			Species Across All Strat	ta: <u>6</u> ((B)
Sapling/Shrub Stratum (Plot size: 15'	90	= Total Co	ver	Percent of Dominant Sp		
1. Quercus virginiana	50	Yes	FACU	That Are OBL, FACW, o	r FAC: 3076 ((A/B)
2. Mahonia trifoliolata	30	No	NO	Prevalence Index work	sheet:	
3.				Total % Cover of:	Multiply by:	-
4.					x 1 =	
5.				1	x 2 =	
-	80	= Total Co	ver		x 3 =	
Herb Stratum (Plot size: 5'	25	V	EAC		x 4 =	
1. Verbesina alternifolia	5	Yes	FAC		x 5 =	(T)
2. Cylindropuntia leptocaulis 3. Eupatorium incarnatum	60	No Yes	FAC	Column Totals:	(A)	(B)
	-		TAC	Prevalence Index	= B/A =	_
4				Hydrophytic Vegetatio	n Indicators:	
5				1 - Rapid Test for H	ydrophytic Vegetation	
6. 7.				2 - Dominance Test		
8		19-2		3 - Prevalence Inde		
9					daptations ¹ (Provide suppo or on a separate sheet)	orting
10.					on on a separate sneet) Phytic Vegetation¹ (Explain)	١.
	90	= Total Co	ver			-
Woody Vine Stratum (Plot size: 30'	200	37	EA CV	¹ Indicators of hydric soil be present, unless distu	and wetland hydrology mu	ust
1. Ipomoea pandurata		Yes	FACU_		——————————————————————————————————————	
2	20			Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 20	20	= Total Co	ver		s No <u>√</u>	
Remarks:		-		<u> </u>		

US Army Corps of Engineers

Depth (inches) Colc 0-8 10 YR	ion, D=Depletic rs: (Applicable (A5) (LRR F) LRR F, G, H) Dark Surface (A ce (A12) neral (S1) nat or Peat (S2) (I present):	on, RM=Redule to all LRRs	ced Matrix, CS=Cover, unless otherwise Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mate Redox Dark Section Depleted Dar Redox Depre High Plains D	noted.) d Matrix (S4) i (S5) ix (S6) y Mineral (F1) d Matrix (F2) rix (F3) Surface (F6) k Surface (F7)	Sandy clay Sandy clay Sandy clay Indicators for Indicators for Coast Pra Dark Surf High Plair (LRR Reduced Red Pare Very Sha Other (Ex Indicators of Wetland h unless dis	Remarks ion: PL=Pore Lining, M=Matrix. r Problematic Hydric Soils³: ck (A9) (LRR I, J) airie Redox (A16) (LRR F, G, H) face (S7) (LRR G) ns Depressions (F16) H outside of MLRA 72 & 73) Vertic (F18) ent Material (TF2) filow Dark Surface (TF12) cyplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
10 YR 1 Type: C=Concentra Hydric Soil Indicato Histosol (A1) Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers 1 cm Muck (A9) Depleted Below Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pea Restrictive Layer (iff Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (mage) Surface Water (And High Water Table	ion, D=Depletic rs: (Applicable (A5) (LRR F) LRR F, G, H) Dark Surface (A ce (A12) neral (S1) nat or Peat (S2) (I present):	on, RM=Redule to all LRRs	s, unless otherwise Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre High Plains D	noted.) d Matrix (S4) i (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Surface (F6) k Surface (F7) ssions (F8) pepressions (F16)	Sandy clay Ind Grains. Indicators for I cm Muc Coast Pra Dark Surf High Plair (LRR Reduced Red Pare Very Sha Other (Ex Indicators of wetland h unless dis	r Problematic Hydric Soils ³ : ck (A9) (LRR I, J) airie Redox (A16) (LRR F, G, H) face (S7) (LRR G) ns Depressions (F16) H outside of MLRA 72 & 73) Vertic (F18) ent Material (TF2) Illow Dark Surface (TF12) cplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
¹Type: C=Concentra Hydric Soil Indicato Histosol (A1) Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers 1 cm Muck (A9) Depleted Below Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pe 7 cm Mucky Pe Restrictive Layer (if Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	ion, D=Depletic rs: (Applicable A2) (A5) (LRR F) LRR F, G, H) Dark Surface (A ce (A12) heral (S1) hat or Peat (S2) t or Peat (S3) (I	on, RM=Redu le to all LRRs	s, unless otherwise Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre High Plains D	noted.) d Matrix (S4) i (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Surface (F6) k Surface (F7) ssions (F8) pepressions (F16)	nd Grains. ² Locati Indicators for	r Problematic Hydric Soils ³ : ck (A9) (LRR I, J) airie Redox (A16) (LRR F, G, H) face (S7) (LRR G) ns Depressions (F16) H outside of MLRA 72 & 73) Vertic (F18) ent Material (TF2) Illow Dark Surface (TF12) cplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Hydric Soil Indicato Histosol (A1) Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers 1 cm Muck (A9) Depleted Below Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pe Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (mage) Surface Water (A	(A4) (A5) (LRR F) LRR F, G, H) Dark Surface (Ace (A12) neral (S1) at or Peat (S2) t or Peat (S3) (I	A11)) (LRR G, H) LRR F)	s, unless otherwise Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre High Plains D	noted.) d Matrix (S4) i (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Surface (F6) k Surface (F7) ssions (F8) pepressions (F16)	Indicators for 1 cm Muc Coast Pra Dark Surf High Plain	r Problematic Hydric Soils ³ : ck (A9) (LRR I, J) airie Redox (A16) (LRR F, G, H) face (S7) (LRR G) ns Depressions (F16) H outside of MLRA 72 & 73) Vertic (F18) ent Material (TF2) Illow Dark Surface (TF12) cplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Hydric Soil Indicato Histosol (A1) Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers 1 cm Muck (A9) Depleted Below Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pe Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m	(A4) (A5) (LRR F) LRR F, G, H) Dark Surface (Ace (A12) neral (S1) at or Peat (S2) t or Peat (S3) (I	A11)) (LRR G, H) LRR F)	s, unless otherwise Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre High Plains D	noted.) d Matrix (S4) i (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Surface (F6) k Surface (F7) ssions (F8) pepressions (F16)	Indicators for 1 cm Muc Coast Pra Dark Surf High Plain	r Problematic Hydric Soils ³ : ck (A9) (LRR I, J) airie Redox (A16) (LRR F, G, H) face (S7) (LRR G) ns Depressions (F16) H outside of MLRA 72 & 73) Vertic (F18) ent Material (TF2) Illow Dark Surface (TF12) cplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
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Hydric Soil Indicato Histosol (A1) Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers 1 cm Muck (A9) Depleted Below Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pe Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m	(A4) (A5) (LRR F) LRR F, G, H) Dark Surface (Ace (A12) neral (S1) at or Peat (S2) t or Peat (S3) (I	A11)) (LRR G, H) LRR F)	s, unless otherwise Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre High Plains D	noted.) d Matrix (S4) i (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Surface (F6) k Surface (F7) ssions (F8) pepressions (F16)	Indicators for 1 cm Muc Coast Pra Dark Surf High Plain	r Problematic Hydric Soils ³ : ck (A9) (LRR I, J) airie Redox (A16) (LRR F, G, H) face (S7) (LRR G) ns Depressions (F16) H outside of MLRA 72 & 73) Vertic (F18) ent Material (TF2) Illow Dark Surface (TF12) cplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Hydric Soil Indicato Histosol (A1) Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers 1 cm Muck (A9) Depleted Below Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pe 6 cm Mucky Pe Restrictive Layer (if Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	(A4) (A5) (LRR F) LRR F, G, H) Dark Surface (Ace (A12) neral (S1) at or Peat (S2) t or Peat (S3) (I	A11)) (LRR G, H) LRR F)	s, unless otherwise Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre High Plains D	noted.) d Matrix (S4) i (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Surface (F6) k Surface (F7) ssions (F8) pepressions (F16)	Indicators for 1 cm Muc Coast Pra Dark Surf High Plain	r Problematic Hydric Soils ³ : ck (A9) (LRR I, J) airie Redox (A16) (LRR F, G, H) face (S7) (LRR G) ns Depressions (F16) H outside of MLRA 72 & 73) Vertic (F18) ent Material (TF2) Illow Dark Surface (TF12) cplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Hydric Soil Indicato Histosol (A1) Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers 1 cm Muck (A9) Depleted Below Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pe 6 cm Mucky Pe Restrictive Layer (if Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	(A4) (A5) (LRR F) LRR F, G, H) Dark Surface (Ace (A12) neral (S1) at or Peat (S2) t or Peat (S3) (I	A11)) (LRR G, H) LRR F)	s, unless otherwise Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre High Plains D	noted.) d Matrix (S4) i (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Surface (F6) k Surface (F7) ssions (F8) pepressions (F16)	Indicators for 1 cm Muc Coast Pra Dark Surf High Plain	ck (A9) (LRR I, J) airie Redox (A16) (LRR F, G, H) face (S7) (LRR G) ns Depressions (F16) H outside of MLRA 72 & 73) Vertic (F18) ent Material (TF2) Illow Dark Surface (TF12) explain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers 1 cm Muck (A9) Depleted Below (Thick Dark Surfat Sandy Mucky Mit 2.5 cm Mucky Peat 5 cm Mucky Peat Restrictive Layer (iff Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (mage) Surface Water (And High Water Table)	(A4) (A5) (LRR F) LRR F, G, H) Dark Surface (Ace (A12) heral (S1) at or Peat (S2) or Peat (S3) (I) (LRR G, H) LRR F)	Sandy Redox Stripped Matr Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre High Plains D	ix (S5) ix (S6) ix (S6) iv Mineral (F1) d Matrix (F2) ix (F3) Surface (F6) k Surface (F7) ssions (F8) pepressions (F16)	Coast Pra Coast Pra Dark Surf High Plair (LRR Reduced Red Pare Very Sha Other (Ex Indicators of wetland h unless dis	airie Redox (A16) (LRR F, G, H) face (S7) (LRR G) ns Depressions (F16) H outside of MLRA 72 & 73) Vertic (F18) ent Material (TF2) Illow Dark Surface (TF12) cplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Black Histic (A3) Hydrogen Sulfide Stratified Layers 1 cm Muck (A9) Depleted Below Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pea Restrictive Layer (if Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	(A4) (A5) (LRR F) LRR F, G, H) Dark Surface (Ace (A12) heral (S1) at or Peat (S2) or Peat (S3) (I) (LRR G, H) LRR F)	Stripped Matr Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre High Plains D	rix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Surface (F6) k Surface (F7) ssions (F8) lepressions (F16)	Dark Surl High Plair (LRR Reduced Red Pare Very Sha Other (Ex	face (S7) (LRR G) ns Depressions (F16) H outside of MLRA 72 & 73) Vertic (F18) ent Material (TF2) Illow Dark Surface (TF12) kplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Hydrogen Sulfide Stratified Layers 1 cm Muck (A9) Depleted Below Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pea Restrictive Layer (if Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	(A5) (LRR F) LRR F, G, H) Dark Surface (A ce (A12) neral (S1) at or Peat (S2) or Peat (S3) (I present):) (LRR G, H) LRR F)	Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre High Plains D	y Mineral (F1) d Matrix (F2) rix (F3) Surface (F6) k Surface (F7) ssions (F8) pepressions (F16)	High Plain (LRR (LRR Reduced Red Pare Very Sha Other (Ex Indicators of wetland h unless dis	ns Depressions (F16) H outside of MLRA 72 & 73) Vertic (F18) ent Material (TF2) Illow Dark Surface (TF12) kplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Stratified Layers 1 cm Muck (A9) Depleted Below Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pea Restrictive Layer (if Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	(A5) (LRR F) LRR F, G, H) Dark Surface (A ce (A12) neral (S1) at or Peat (S2) or Peat (S3) (I present):) (LRR G, H) LRR F)	Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre High Plains D	d Matrix (F2) rix (F3) Surface (F6) k Surface (F7) ssions (F8) lepressions (F16)	(LRR Reduced Red Pare Very Sha Other (Ex 3Indicators of wetland h unless dis	H outside of MLRA 72 & 73) Vertic (F18) ent Material (TF2) Illow Dark Surface (TF12) kplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
1 cm Muck (A9) Depleted Below Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pea Restrictive Layer (if Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	LRR F, G, H) Dark Surface (A ce (A12) neral (S1) at or Peat (S2) or Peat (S3) (I present):) (LRR G, H) LRR F)	Depleted Mat Redox Dark S Depleted Dar Redox Depre High Plains D	rix (F3) Surface (F6) k Surface (F7) ssions (F8) epressions (F16)	Reduced Red Pare Very Sha Other (Ex 3Indicators of wetland h unless dis	Vertic (F18) ent Material (TF2) flow Dark Surface (TF12) kplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Depleted Below Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pea Restrictive Layer (if Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	Dark Surface (Acce (A12) heral (S1) hat or Peat (S2) or Peat (S3) (I) (LRR G, H) LRR F)	Redox Dark S Depleted Dar Redox Depre High Plains D	Surface (F6) k Surface (F7) ssions (F8) depressions (F16)	Red Pare Very Sha Other (Ex Indicators of wetland h unless dis	ent Material (TF2) Illow Dark Surface (TF12) Explain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Thick Dark Surfa Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pe Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	ce (A12) neral (S1) nat or Peat (S2) or Peat (S3) (I) (LRR G, H) LRR F)	Depleted Dar Redox Depre High Plains D	k Surface (F7) ssions (F8) epressions (F16)	Very Sha Other (Ex Indicators of wetland h unless dis	Illow Dark Surface (TF12) cplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Sandy Mucky Mi 2.5 cm Mucky Pe 5 cm Mucky Pe 7 cm Mucky Pe Restrictive Layer (if Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	neral (S1) eat or Peat (S2) or Peat (S3) (I	LRR F)	Redox Depre High Plains D	ssions (F8) epressions (F16)	Other (Ex ³ Indicators of wetland h unless dis	oplain in Remarks) hydrophytic vegetation and hydrology must be present, sturbed or problematic.
2.5 cm Mucky Pea 5 cm Mucky Pea Restrictive Layer (if Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	at or Peat (S2) t or Peat (S3) (I present):	LRR F)			wetland h unless di	sturbed or problematic.
Restrictive Layer (if Type: Depth (inches): _ Remarks: IYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table	present):		(MLRA 72	2 & 73 of LRR H)	unless di	sturbed or problematic.
Type:			#			
Type:			4		Hydric Soil Pr	resent? Yes No <u>√</u>
Depth (inches):			<i>y</i>		Hydric Soil Pr	resent? Yes No ✓
Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table					Hydric Soil Pr	resent? Yes No _
HYDROLOGY Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table						
Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table						
Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table						
Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table						
Wetland Hydrology Primary Indicators (m Surface Water (A High Water Table						
Primary Indicators (m Surface Water (A High Water Tabl	indicators:					
Surface Water (A		required; che	ck all that apply)		Secondary	Indicators (minimum of two required)
High Water Table			Salt Crust (B11)		Surfac	e Soil Cracks (B6)
	•		Aguatic Inverteb		_	ely Vegetated Concave Surface (B8)
	, (, ,_,		Hydrogen Sulfid	` ,		ge Patterns (B10)
Water Marks (B1)		Dry-Season Wa			ed Rhizospheres on Living Roots (C3
Sediment Depos			<u> </u>	spheres on Living R		ere tilled)
Drift Deposits (B			(where not til	lled)	Crayfis	sh Burrows (C8)
Algal Mat or Crus			Presence of Re	duced Iron (C4)	Satura	tion Visible on Aerial Imagery (C9)
Iron Deposits (B			Thin Muck Surfa			orphic Position (D2)
Inundation Visible		gery (B7)	Other (Explain i	n Remarks)		leutral Test (D5)
Water-Stained Lo					Frost-I	Heave Hummocks (D7) (LRR F)
Field Observations:	. ,				-	
Surface Water Prese	nt? Yes	No _ √	Depth (inches)	:		
Water Table Present			Depth (inches)	1		
Saturation Present?			Depth (inches)		Wetland Hydrology F	Present? Yes No ✓
(includes capillary frin	ige)					
Describe Recorded D	ata (stream ga	auge, monitori	ng well, aerial photo	s, previous inspect	ions), if available:	
	, 3					
Remarks:	,					

Project/Site: 130 Environmental Park		City/County	_{y:} Lockhaı	rt/Caldwell	Sampling Date: 06/17/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T2-DP5
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Depression			•		ve Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5				NWI classifi	
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology si	-			•	present? Yes ✓ No
Are Vegetation, Soil, or Hydrology n.				eded, explain any answ	
SUMMARY OF FINDINGS – Attach site map				-	
Hydrophytic Vegetation Present? Yes ✓ No Hydric Soil Present? Yes No		ls t	he Sampled		
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	o √	with	hin a Wetlar	nd? Yes	No <u> </u>
Remarks:				· · · · · · · · · · · · · · · · · · ·	***
VEGETATION – Use scientific names of plant	ts.				
Tree Stratum (Plot size: 5')	Absolute		t Indicator	Dominance Test wor	ksheet:
			Status_	Number of Dominant S That Are OBL, FACW,	Species
1				(excluding FAC-):	1 (A)
2				Total Number of Domi	
3. 4.				Species Across All Str	
		= Total Co	over	Percent of Dominant S	Procios
Sapling/Shrub Stratum (Plot size: 5')				That Are OBL, FACW,	
1				Prevalence Index wo	rkehaat
2				Total % Cover of:	
3					x 1 =
4					x 2 =
5		= Total Co			x 3 =
Herb Stratum (Plot size: 5')		= Total Co	over		x 4 =
1. Iva annua	85	Yes	FAC	UPL species	x 5 =
2. Phyla lanceolata	25	No	FACW		(A)(B)
3. Phanopyrum gymnocarpon	10	No	OBL	Provolence Inde	x = B/A =
4. Carex brevior	10	No	FAC	Hydrophytic Vegetati	
5. Setaria parviflora	5	No	FAC		Hydrophytic Vegetation
6. Eleocharis palustris	25	No	OBL	✓ 2 - Dominance Te	, , , ,
7				3 - Prevalence Inc	
8.				4 - Morphological	Adaptations ¹ (Provide supporting
9	· ——			1	ks or on a separate sheet)
10	160	= Total Co		Problematic Hydro	ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 5') 1)		,		¹ Indicators of hydric so be present, unless dis	oil and wetland hydrology must turbed or problematic.
2				Hydrophytic	942-0-m
		= Total Co	over	Vegetation	/
% Bare Ground in Herb Stratum				Present? Yo	es No
Remarks:					
·					

		eded to document the indicato		
Depth Matri (inches) Color (moist		Redox Features olor (moist) % Type ¹	Loc ² T	exture Remarks
0-5 10 YR 2/1		<u> </u>	Cla	
			Cla	
5-8 10 YR 3-1				119
				All Control of the Co
¹ Type: C=Concentration, D=	Depletion, RM=Redu	uced Matrix, CS=Covered or Coa		
Hydric Soil Indicators: (Ap	plicable to all LRRs	s, unless otherwise noted.)	- Is	ndicators for Problematic Hydric Soils ³ :
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) (LF 1 cm Muck (A9) (LRR F,	,	Loamy Gleyed Matrix (F2 Depleted Matrix (F3)		(LRR H outside of MLRA 72 & 73) Reduced Vertic (F18)
Depleted Below Dark Su	. ,	Redox Dark Surface (F6)		Red Parent Material (TF2)
Thick Dark Surface (A12)	, ,	Depleted Dark Surface (F	7)	Very Shallow Dark Surface (TF12)
Sandy Mucky Mineral (S	•	Redox Depressions (F8)	_	Other (Explain in Remarks)
2.5 cm Mucky Peat or Pe	eat (S2) (LRR G, H)	High Plains Depressions	(F16) ³	Indicators of hydrophytic vegetation and
5 cm Mucky Peat or Pea	t (S3) (LRR F)	(MLRA 72 & 73 of LF	RH)	wetland hydrology must be present,
				unless disturbed or problematic.
Restrictive Layer (if present	t):			
Type:				,
Depth (inches):			Hy	ydric Soil Present? Yes No ✓
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicato				
Wetland Hydrology Indicator Primary Indicators (minimum				Secondary Indicators (minimum of two required)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1)		Salt Crust (B11)		Surface Soil Cracks (B6)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Salt Crust (B11) Aquatic Invertebrates (B13)		Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)		Surface Soil Cracks (B6)Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)
Wetland Hydrology Indicator Primary Indicators (minimum 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 (C	2)	 Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3)
Wetland Hydrology Indicator Primary Indicators (minimum 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 (C Oxidized Rhizospheres on L 	2)	 Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled)
Wetland Hydrology Indicator Primary Indicators (minimum 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 (C Oxidized Rhizospheres on L (where not tilled) 	2) iving Roots (C3)	 Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		 Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (2) iving Roots (C3)	 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)
Wetland Hydrology Indicator Primary Indicators (minimum 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)	of one required; che	 Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (CT) Thin Muck Surface (C7) 	2) iving Roots (C3)	 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) ✓ Geomorphic Position (D2)
Wetland Hydrology Indicator Primary Indicators (minimum 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 Aer	of one required; che	 Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (2) iving Roots (C3)	 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) ✓ Geomorphic Position (D2) FAC-Neutral Test (D5)
Primary Indicators (minimum 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 Aer Water-Stained Leaves (B	of one required; che	 Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (CT) Thin Muck Surface (C7) 	2) iving Roots (C3)	 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) ✓ Geomorphic Position (D2)
Wetland Hydrology Indicator Primary Indicators (minimum 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 Aet Water-Stained Leaves (B5)	of one required; che rial Imagery (B7) 39)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (C) Thin Muck Surface (C7) Other (Explain in Remarks)	2) iving Roots (C3) C4)	 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) ✓ Geomorphic Position (D2) FAC-Neutral Test (D5)
Wetland Hydrology Indicator Primary Indicators (minimum 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 Aer Water-Stained Leaves (EField Observations: Surface Water Present?	of one required; che rial Imagery (B7) 39) Yes No _	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (C) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches):	2) iving Roots (C3) C4)	 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) ✓ Geomorphic Position (D2) FAC-Neutral Test (D5)
Wetland Hydrology Indicator Primary Indicators (minimum 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 Aet Water-Stained Leaves (B5)	rial Imagery (B7) Yes No Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (C) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	2) iving Roots (C3) C4)	 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) ✓ Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
Wetland Hydrology Indicator Primary Indicators (minimum 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 Aer Water-Stained Leaves (E Field Observations: Surface Water Present? Water Table Present?	rial Imagery (B7) Yes No Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (C) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches):	2) iving Roots (C3) C4)	 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) ✓ Geomorphic Position (D2) FAC-Neutral Test (D5)
Wetland Hydrology Indicator Primary Indicators (minimum 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 Aet Water-Stained Leaves (B5) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	rial Imagery (B7) 39) Yes No Yes No Yes No Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (C) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	2) iving Roots (C3) C4) Wetland	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) ✓ Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
Wetland Hydrology Indicator Primary Indicators (minimum 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 Aet Water-Stained Leaves (B5) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	rial Imagery (B7) 39) Yes No Yes No Yes No Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (C) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	2) iving Roots (C3) C4) Wetland	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) ✓ Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
Wetland Hydrology Indicator Primary Indicators (minimum 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 Ael Water-Stained Leaves (E Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (street	rial Imagery (B7) 39) Yes No Yes No Yes No Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (C) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	2) iving Roots (C3) C4) Wetland	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) ✓ Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
Wetland Hydrology Indicator Primary Indicators (minimum 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 Aet Water-Stained Leaves (B5) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	rial Imagery (B7) 39) Yes No Yes No Yes No Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (C) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	2) iving Roots (C3) C4) Wetland	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) ✓ Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
Wetland Hydrology Indicator Primary Indicators (minimum 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 Ael Water-Stained Leaves (E Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (street	rial Imagery (B7) 39) Yes No Yes No Yes No Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C Oxidized Rhizospheres on L (where not tilled) Presence of Reduced Iron (C) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	2) iving Roots (C3) C4) Wetland	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) ✓ Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park	City/County: Lockhart/Caldwell Sampling Date: 06/17/201					
Applicant/Owner: 130 Environmental Park, LLC	State: TX Sampling Point: T2-DP6					
Investigator(s): Troegle, Josh & Littleton, Brandyr						
Landform (hillslope, terrace, etc.): None		Local relief	(concave,	convex, none): None	Slope	· (%): 0-1
Subregion (LRR): J - Southwestern Prairies	Lat: 29.	98		Long: -97.66	Datum:	NAD 83
Soil Map Unit Name: HeC2 - Heiden clay, 3 to 5 perce						
Are climatic / hydrologic conditions on the site typical for the	nis time of yea	ar? Yes <u>√</u>	No _	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Are "	Normal Circumstances" p	resent? Yes 🗸	No
Are Vegetation, Soil, or Hydrology			(If ne	eded, explain any answer	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map			g point l	ocations, transects	, important feat	tures, etc.
Hydrophytic Vegetation Present? Yes	No √					
Hydric Soil Present? Yes	No <u>√</u>		e Sampled in a Wetlar		No_ √	
Wetland Hydrology Present? Yes	No <u>✓</u>	With	ni a vvetiai	id: 165	NO	
Remarks:						
VEGETATION – Use scientific names of pla	nts.					
	Absolute	Dominant	Indicator	Dominance Test work	sheet:	
<u>Tree Stratum</u> (Plot size: 30'		Species?		Number of Dominant Sp		
1. Celtis laevigata	25	Yes	FAC	That Are OBL, FACW,		(4)
2. Prosopis glandulosa		Yes	FACU	(excluding FAC-):		(A)
3. Ulmus crassifolia	<u>10</u>	No	FAC	Total Number of Domin	_	(D)
4. Bumelia lanuginosa	<u> 10</u>	No	NI	Species Across All Stra	ta: <u>-</u>	(B)
Sapling/Shrub Stratum (Plot size: 15'	75	= Total Cov	er	Percent of Dominant Sp	pecies or FAC· 40	(A (B)
1. Celtis laevigata	25	Yes	FAC	That Are OBL, FACW, o	or FAC: 40	(A/B)
2. Prosopis glandulosa	10	Yes	FACU	Prevalence Index work	ksheet:	
3.				Total % Cover of:	Multiply t	ογ:
4				OBL species		
5				FACW species		I
51	35	= Total Cov	er er	FAC species		
Herb Stratum (Plot size: 5') Opuntia engelmannii	10	No	NI	FACU species		
Opunta engermannii Nassella leucotricha	- 10	Yes	NI	UPL species		
3. Cylindropuntia leptocaulis	15	No	NI	Column Totals:	(A)	(B)
Ambrosia trifida	20	No	FAC	Prevalence Index	= B/A =	
5. Solanum elaeagnifolium	10	No	NI	Hydrophytic Vegetation	on Indicators:	
6				1 - Rapid Test for h	lydrophytic Vegetati	ion
7				2 - Dominance Tes		
8				3 - Prevalence Inde		
9.				4 - Morphological A	Adaptations¹ (Providons or on a separate sl	
10.				Problematic Hydro	•	, I
201	135	= Total Cov	/er			
Woody Vine Stratum (Plot size: 30') 1				¹ Indicators of hydric soi be present, unless distu		
2.				Hydrophytic		
	_	= Total Cov	/er	Vegetation	/	
% Bare Ground in Herb Stratum 20				Present? Yes	s No	
Remarks:						

Profile Desc	cription: (Descri	be to the depth ne	eded to docu	nent the i	ndicator	or confirm	the absence of indicators.)	
Depth	Matrix			x Features				0
(inches)	Color (moist)		olor (moist)	<u>%</u>	Type ¹	_Loc ²	Texture Remarks	_
								_
					****			_
				-				- ,
								- 1
					*			_
								_
- 90								_
¹Type: C=C	oncentration, D=0	epletion, RM=Red	uced Matrix, C	S=Covered	d or Coate	d Sand Gr	rains. ² Location: PL=Pore Lining, M=Matrix.	_
Hydric Soil	Indicators: (App	licable to all LRR	s, unless othe	rwise note	ed.)		Indicators for Problematic Hydric Soils ³ :	
Histosol	(A1)		Sandy	Gleyed Ma	trix (S4)		1 cm Muck (A9) (LRR I, J)	
_	pipedon (A2)		Sandy	Redox (S5)		Coast Prairie Redox (A16) (LRR F, G, H)	
Black H	istic (A3)			d Matrix (S			Dark Surface (S7) (LRR G)	
	en Sulfide (A4)			Mucky Mir			High Plains Depressions (F16)	
	d Layers (A5) (LR	•		Gleyed Ma			(LRR H outside of MLRA 72 & 73)	
	uck (A9) (LRR F, (d Below Dark Sur			d Matrix (F Dark Surfa	-		Reduced Vertic (F18) Red Parent Material (TF2)	
	ark Surface (A12)	lace (ATT)		d Dark Su	. ,	,	Very Shallow Dark Surface (TF12)	
ı —	Mucky Mineral (S1)		Depression			Other (Explain in Remarks)	
		at (S2) (LRR G, H)	High Pl	ains Depre	essions (F	16)	³ Indicators of hydrophytic vegetation and	
5 cm Mu	ucky Peat or Peat	(S3) (LRR F)	(ML	RA 72 & 7	73 of LRR	(H)	wetland hydrology must be present,	
					****		unless disturbed or problematic.	
Restrictive	Layer (if present):						
Type:							11-1-12-12-12-12-12-12-12-12-12-12-12-12	
	ches):						Hydric Soil Present? Yes No ✓	
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicato	rs:						
Primary Indi	cators (minimum o	of one required; che	eck all that app	v)			Secondary Indicators (minimum of two required	<u>d)</u>
Surface	Water (A1)		Salt Crust	(B11)			Surface Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic In	vertebrate	s (B13)		Sparsely Vegetated Concave Surface (B8))
Saturati			Hydrogen	Sulfide O	dor (C1)		Drainage Patterns (B10)	
Water M	farks (B1)		Dry-Seaso				Oxidized Rhizospheres on Living Roots (C	(3)
Sedime	nt Deposits (B2)		Oxidized I			ing Roots (•	
	posits (B3)		•	not tilled)			Crayfish Burrows (C8)	
	at or Crust (B4)		Presence			4)	Saturation Visible on Aerial Imagery (C9)	
	posits (B5)		Thin Mucl				Geomorphic Position (D2)	
	on Visible on Aeri		Other (Ex	plain in Re	emarks)		FAC-Neutral Test (D5)	
	Stained Leaves (B	9)					Frost-Heave Hummocks (D7) (LRR F)	
Field Obser			/	-h - \				
Surface Wat		Yes No _v				1		
Water Table		Yes No <u>v</u>	_					
Saturation P		Yes No _	Depth (in	ches):		_ Wetla	and Hydrology Present? Yes No ✓	_
Describe Re	pillary fringe) corded Data (stre	am gauge, monitor	ing well, aerial	photos, pr	evious ins	spections),	if available:	
	,	•						
Remarks:								

Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	Sampling Date: 06/17/20	113
,					Sampling Point: T2-DP7	
Investigator(s): Troegle, Josh & Littleton, Brandyn						
Landform (hillslope, terrace, etc.): None		Local relief	(concave,	convex, none): None	Slope (%): 0-	.1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: BuB - Burleson clay, 1 to 3 percer				NWI classific		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrologys					oresent? Yes ✓ No	
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map						etc.
Hydrophytic Vegetation Present? Yes ✓ N	0		0 1			
Hydric Soil Present? Yes N	o <u> </u>		e Sampled in a Wetlar		No <u>√</u>	
Wetland Hydrology Present? Yes N	∘ ✓	With	iii a weliai	id! Tes	NO 4	
Remarks:						
VEGETATION – Use scientific names of plan						
Tree Stratum (Plot size: 30'	Absolute % Cover	Dominant Species?		Dominance Test work		
1. Prosopis glandulosa	75	Yes	FACU	Number of Dominant S That Are OBL, FACW,		
2. Ulmus crassifolia	60	Yes	FAC	(excluding FAC-):	4 (4	۹)
3.	. —			Total Number of Domir	ant	
4				Species Across All Stra	6	3)
4.	135	= Total Cov		Daniel of Daniel of O		
Sapling/Shrub Stratum (Plot size: 15'		- 10ta100t	701	Percent of Dominant S That Are OBL, FACW,		(B)
1. Ulmus crassifolia	50	Yes	FAC			
2. Prosopis glandulosa	10	No	FACU	Prevalence Index wor		
3				Total % Cover of:		
4					x 1 =	
5					x 2 =	
, , , , , , , , , , , , , , , , , , ,	60	= Total Cov	/er		x 3 =	
Herb Stratum (Plot size: 5'	40	Yes	NI		x 4 =	
2. Ambrosia trifida	10	No	FAC	UPL species	(A) (B)
3. Cylindropuntia leptocaulisi	5	No	NI	Column Totals.	(^)(D)
4. Elymus virginicus	40	Yes	FAC	Prevalence Index	= B/A =	
				Hydrophytic Vegetation	on Indicators:	
5				1 - Rapid Test for I		
6				✓ 2 - Dominance Tes		
7 8				3 - Prevalence Ind		
9.				4 - Morphological /	Adaptations ¹ (Provide suppor	ting
10.					s or on a separate sheet)	
10.	95	= Total Cov	ver	Problematic Hydro	phytic Vegetation ¹ (Explain)	
Woody Vine Stratum (Plot size: 30'					il and wetland hydrology mus	t
1. Ampelopsis cordata	60	Yes	FAC	be present, unless dist	urbed or problematic.	
2.				Hydrophytic		
W. B O dia Nata Status	60	= Total Cov	ver	Vegetation Ye	s No	
% Bare Ground in Herb Stratum						
Remarks.						

Sampling Point: T2-DP7

Depth	Matrix		needed to document the indicator o Redox Features	Commi	i the absence of	mulcators.)
(inches)	Color (moist)		Color (moist) % Type ¹	Loc ²	Texture	Remarks
0-10	10 YR 2/1	100			Clay	
			duced Matrix, CS=Covered or Coated	Sand G		on: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appl	licable to all LR	Rs, unless otherwise noted.)			r Problematic Hydric Soils ³ :
Histoso	` '		Sandy Gleyed Matrix (S4)			ck (A9) (LRR I, J)
	pipedon (A2)		Sandy Redox (S5)			airie Redox (A16) (LRR F, G, H)
	listic (A3)		Stripped Matrix (S6)			face (S7) (LRR G)
	en Sulfide (A4)) E)	Loamy Mucky Mineral (F1)			ns Depressions (F16)
_	ed Layers (A5) (LRF luck (A9) (LRR F, G	•	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)			H outside of MLRA 72 & 73)
	ed Below Dark Surfa		Redox Dark Surface (F6)		_	Vertic (F18) nt Material (TF2)
	ark Surface (A12)	ace (ATT)	Depleted Dark Surface (F7)		_	llow Dark Surface (TF12)
_	Mucky Mineral (S1)		Redox Depressions (F8)			plain in Remarks)
_ ′	Mucky Peat or Pea			6)		hydrophytic vegetation and
5 cm M	ucky Peat or Peat ((S3) (LRR F)	(MLRA 72 & 73 of LRR			ydrology must be present,
					unless dis	sturbed or problematic.
Restrictive	Layer (if present)	:				
Туре:	100		_			
Depth (ir	nches):		_		Hydric Soil Pr	esent? Yes No ✓
Remarks:						
	F124.0		<u> </u>			
YDROLC						
	drology Indicator		-			
Primary Ind	icators (minimum o	f one required; cl	neck all that apply)		Secondary	Indicators (minimum of two required)
Surface	Water (A1)		Salt Crust (B11)		Surface	e Soil Cracks (B6)
High W	ater Table (A2)		Aquatic Invertebrates (B13)		Sparse	ly Vegetated Concave Surface (B8)
Saturat	ion (A3)		Hydrogen Sulfide Odor (C1)		Draina	ge Patterns (B10)
Water N	Marks (B1)		Dry-Season Water Table (C2)		Oxidize	ed Rhizospheres on Living Roots (C3
Sedime	nt Deposits (B2)		Oxidized Rhizospheres on Livir	g Roots	(C3) (whe	re tilled)
Drift De	posits (B3)		(where not tilled)		Crayfis	h Burrows (C8)
Algal M	at or Crust (B4)		Presence of Reduced Iron (C4)	+	Saturat	tion Visible on Aerial Imagery (C9)
Iron De	posits (B5)		Thin Muck Surface (C7)		Geomo	orphic Position (D2)
Inundat	ion Visible on Aeria	ıl imagery (B7)	Other (Explain in Remarks)		FAC-N	eutral Test (D5)
Water-S	Stained Leaves (B9)			Frost-H	leave Hummocks (D7) (LRR F)
ield Obse	rvations:					
Surface Wa	ter Present?	Yes No	✓ Depth (inches):			
Nater Table			✓ Depth (inches):	1		
Saturation F			Depth (inches):		and Hydrology P	resent? Yes No ✓
	pillary fringe)		Topa: (monoo).			10 1
Describe Re	ecorded Data (strea	m gauge, monito	oring well, aerial photos, previous insp	ections),	if available:	
Remarks:						

Project/Site: 130 Environmental Park	(City/County	y: Lockha	rt/Caldwell	Sampling Date: 06/18/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T2-DP8
Investigator(s): Troegle, Josh & Littleton, Brandyn	-				
Landform (hillslope, terrace, etc.): Hillslope					Slope (%): 2-3
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5					
Are climatic / hydrologic conditions on the site typical for this			,		
Are Vegetation, Soil, or Hydrology si	_				present? Yes ✓ No
Are Vegetation, Soil, or Hydrology na				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map s			,		,
Hydrophytic Vegetation Present? Yes No	1		-1	-	
Hydric Soil Present? Yes No	√		he Sampled		No <u>√</u>
Wetland Hydrology Present? Yes No	√ <u></u>	Witt	nin a Wetlar	id? Yes	NO <u>*</u>
Remarks:					
VEGETATION – Use scientific names of plant	ts.				
Tree Stratum (Plot size: 30'	Absolute % Cover		t Indicator	Dominance Test work	
1	% Cover	Species :	Status	Number of Dominant Sp That Are OBL, FACW, of	
2.			- —	(excluding FAC-):	<u>0</u> (A)
3				Total Number of Domin	ant
4.				Species Across All Stra	4
		= Total Co	ver	Percent of Dominant Sp	necies
Sapling/Shrub Stratum (Plot size: 15')				That Are OBL, FACW,	
1. Prosopis glandulosa	40	Yes	FACU	Prevalence Index wor	ksheet.
2. Mahonia trifoliolata	5	Yes No	NI NI		Multiply by:
3. Castela erecta		140	- NI		x 1 =
4				FACW species	x 2 =
5	85	= Total Co		1	x 3 =
Herb Stratum (Plot size: 5'		~ Total Co	, vei	FACU species	x 4 =
1. Cylindropuntia leptocaulis	5	No	NI	UPL species	x 5 =
2. Nassella leucotricha	60	Yes	NI	Column Totals:	(A) (B)
3. Monarda citriodora	60	Yes	NI NI	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	Adaptations ¹ (Provide supporting
9				1	s or on a separate sheet)
10.		= Total Co	over	Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30') 1				¹ Indicators of hydric soi be present, unless distu	l and wetland hydrology must urbed or problematic.
2.				Hydrophytic	
25		= Total Co	over	Vegetation	s No v
% Bare Ground in Herb Stratum 25				Present? Yes	s No <u>√</u>
Remarks:					

US Army Corps of Engineers

Profile Desci	ription: (Describe	to the depth nee	ded to document the		firm the absenc	e of indicators.)
Depth	Matrix		Redox Featur		<u> </u>	
(inches)	Color (moist)	%Co	lor (moist) %	Type ¹ Loc ²		Remarks
			ced Matrix, CS=Cover		d Grains. ² Lo	ocation: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applie	cable to all LRRs	unless otherwise no	oted.)	Indicator	s for Problematic Hydric Soils ³ :
Histosol ((A1)		Sandy Gleyed M	Matrix (S4)	1 cm	Muck (A9) (LRR I, J)
Histic Ep	ipedon (A2)		Sandy Redox (S	S5)	Coas	t Prairie Redox (A16) (LRR F, G, H)
Black His	stic (A3)		Stripped Matrix			Surface (S7) (LRR G)
	n Sulfide (A4)		Loamy Mucky N			Plains Depressions (F16)
_	Layers (A5) (LRR		Loamy Gleyed	. ,		RR H outside of MLRA 72 & 73)
	ck (A9) (LRR F, G,	,	Depleted Matrix	` '		uced Vertic (F18)
	Below Dark Surface (A12)	ce (A11)	Redox Dark Sur	. ,		Parent Material (TF2)
	rk Surface (A12)		Depleted Dark S Redox Depress			Shallow Dark Surface (TF12) r (Explain in Remarks)
	ucky Mineral (S1) lucky Peat or Peat	(S2) (I PP G H)	High Plains Dep			s of hydrophytic vegetation and
	cky Peat or Peat (S			3 73 of LRR H)		nd hydrology must be present,
_ 3 611 1416	cky real or real (c)5) (L ICIT)	(III.LICA) Z	a ro or Erricity		ss disturbed or problematic.
Restrictive L	ayer (if present):				T	
Type:	,					
" —	hes):				Hydric So	il Present? Yes No ✓
	1165).				Tiyano oo	Tresent: Tes No
Remarks:						
HYDROLOG	2V					
1	rology Indicators					
Primary Indica	ators (minimum of	one required; che				dary Indicators (minimum of two required)
Surface V	Vater (A1)	-	Salt Crust (B11)			ırface Soil Cracks (B6)
High Wat	ter Table (A2)		Aquatic Invertebra	, ,	Sp	parsely Vegetated Concave Surface (B8)
Saturatio	n (A3)	-	Hydrogen Sulfide			ainage Patterns (B10)
Water Ma	arks (B1)	-	Dry-Season Wate	. ,	_	kidized Rhizospheres on Living Roots (C3)
Sedimen	t Deposits (B2)	-		neres on Living Ro		where tilled)
Drift Dep	osits (B3)		(where not tille	d)	Cr	ayfish Burrows (C8)
Algal Mat	t or Crust (B4)		Presence of Redu			aturation Visible on Aerial Imagery (C9)
Iron Depo	osits (B5)	_	Thin Muck Surface	e (C7)	Ge	eomorphic Position (D2)
Inundatio	n Visible on Aerial	Imagery (B7)	Other (Explain in I	Remarks)	FA	AC-Neutral Test (D5)
Water-St	ained Leaves (B9)				Fr	ost-Heave Hummocks (D7) (LRR F)
Field Observ	ations:					
Surface Wate	r Present?	Yes No <u></u> ✓	Depth (inches): _			
Water Table F			Depth (inches): _			
Saturation Pro		Yes No ✓			Vetland Hydrolo	gy Present? Yes No ✓
(includes cap	illary fringe)					37
Describe Rec	orded Data (stream	n gauge, monitorir	ng well, aerial photos,	previous inspection	ns), if available:	
Remarks:						



Data Point 1 Mesquite Grassland Mosaic



Data Point 1 Mesquite Grassland Mosaic



Data Point 2
Riparian Woods (Cedar Elm/Oak)

T2 - Page 1



Data Point 2
Riparian Woods (Cedar Elm/Oak)



Data Point 3 Mesquite Grassland Mosaic



Data Point 3 Mesquite Grassland Mosaic

T2 - Page 2



Data Point 4
Mesquite Grassland Mosaic



Data Point 4 Mesquite Grassland Mosaic



Data Point 5 Sumpweed Depressions

T2 - Page 3



Data Point 5 Sumpweed Depressions



Data Point 6 Mesquite Woods



Data Point 6 Mesquite Woods

T2 - Page 4



Data Point 7 Cedar Elm Woods



Data Point 7 Cedar Elm Woods



Data Point 8 Mesquite Grassland Mosaic

T2 – Page 5



Data Point 8
Mesquite Grassland Mosaic

Project/Site: 130 Environmental Park		City/Co	ounty:	Lockhai	rt/Caldwell	Sampling	Date: 06/18	3/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX			
Investigator(s): Troegle, Josh & Littleton, Brandyn								
Landform (hillslope, terrace, etc.): None							Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to								
Are climatic / hydrologic conditions on the site typical for this								
Are Vegetation, Soil, or Hydrologys					'Normal Circumstances"		Vas ✓ N	No.
Are Vegetation, Soil, or Hydrology r					eded, explain any answe			···
SUMMARY OF FINDINGS – Attach site map							•	ne oto
SUMMART OF FINDINGS - Attach site map	Silowing	Saili	hiiii	y point i		i, iiipoit	ant reature	es, etc.
Hydrophytic Vegetation Present? Yes N	o <u>√</u>		Is the	e Sampled	Area			
Hydric Soil Present? Yes N	o <u>√</u>			n a Wetlar		No	✓	
Wetland Hydrology Present? Yes N	o <u>V</u>							
Remarks:								
VEGETATION – Use scientific names of plan	ts.							
	Absolute			Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30'	% Cover	Spec	cies?	Status	Number of Dominant S			
1					That Are OBL, FACW, (excluding FAC-):	or FAC	0	(A)
2							-	_ (//)
3				-	Total Number of Domir Species Across All Stra		3	(B)
4					,			_ (0)
Sapling/Shrub Stratum (Plot size: 15')		- 100	21 COV	CI	Percent of Dominant S That Are OBL, FACW,		0	(A/B)
1. Prosopis glandulosa	50	Yes		FACU				_ ` ´
2. Juniperus virginiana	5	No		UPL	Prevalence Index wor		B. de aldina ber haven	
3. Ulmus crassifolia	5	No		FAC	Total % Cover of: OBL species		Multiply by:	
4. Sideroxylon lanuginosum	- 5	No		NI	FACW species			
5. Mahonia trifoliolata	5	No		NI	FAC species			
Herb Stratum (Plot size: 5')	70	= Tota	al Cov	er	FACU species			
1. Opuntia engelmannii	20	No		NI	1		i =	
2. Nassella leucotricha	80	Yes		NI	Column Totals:			
3. Monarda citriodora	80	Yes		NI	B	5/4		
4.					Prevalence Index			
5					Hydrophytic Vegetati 1 - Rapid Test for			
6					2 - Dominance Tes		c vegetation	
7					3 - Prevalence Ind			
8			-		4 - Morphological		s ¹ (Provide su	pporting
9					data in Remark	s or on a s	eparate sheet	:)
10	100				Problematic Hydro	phytic Veg	etation¹ (Expl	ain)
Woody Vine Stratum (Plot size: 30'	180	= Tota	al Cov	er	¹ Indicators of hydric so	il and wetla	and hydrology	must
1					be present, unless dist			
2.					Hydrophytic			
		= Tota	al Cov	er	Vegetation		No. J	
% Bare Ground in Herb Stratum					Present? Ye	<u></u>	No ✓	
Remarks:								

	4					n the absence of inc	•
Depth Matr (inches) Color (moist		color (moist)	x Feature: %	Type ¹	Loc ²	Texture	Remarks
(Inches) Color (Inclase	<u> </u>	olor (moloc)				10000	, remaine
		-					-
5.5							
						2	
¹ Type: C=Concentration, D=					d Sand G		PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Ap	plicable to all LRR						roblematic Hydric Soils ³ :
Histosol (A1)			Sleyed Ma				A9) (LRR I, J)
Histic Epipedon (A2)		Sandy F					Redox (A16) (LRR F, G, H)
Black Histic (A3)			Matrix (S	•			(S7) (LRR G)
Hydrogen Sulfide (A4)	DD E\		-	neral (F1)			Depressions (F16)
Stratified Layers (A5) (LI	-		Gleyed Ma d Matrix (. ,		Reduced Ve	outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, Depleted Below Dark Su			o Matrix (Dark Surfa				Material (TF2)
Thick Dark Surface (A12	, ,			rface (F7)			v Dark Surface (TF12)
Sandy Mucky Mineral (S	•	Redox I					in in Remarks)
2.5 cm Mucky Peat or Pe		_		٠,	16)		Irophytic vegetation and
5 cm Mucky Peat or Pea				73 of LRR			ology must be present,
						unless distu	bed or problematic.
Restrictive Layer (if presen	it):						
Type:							
Depth (inches):						Hydric Soil Pres	ent? Yes No ✓
Remarks:							-
Nemarks.							
						941	
YDROLOGY							
	ors:						
Wetland Hydrology Indicat		eck all that appl	y)			Secondary Inc	licators (minimum of two require
Wetland Hydrology Indicat Primary Indicators (minimum							
Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1)		Salt Crust	(B11)	es (B13)		Surface S	oil Cracks (B6)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Salt Crust Aquatic In	(B11) vertebrate	` '		Surface S	oil Cracks (B6) /egetated Concave Surface (B8
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Salt Crust Aquatic In Hydrogen	(B11) vertebrate Sulfide O	dor (C1)		Surface S Sparsely Drainage	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Salt Crust Aquatic In Hydrogen Dry-Seaso	(B11) vertebrate Sulfide O on Water	dor (C1) Γable (C2)		Surface S Sparsely Drainage Oxidized	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10) Rhizospheres on Living Roots (C
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water ⁻ Rhizosphe	dor (C1) Γable (C2) res on Liv		Surface S Sparsely Drainage Oxidized (C3) (where	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10) Rhizospheres on Living Roots (C tilled)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized I	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled	dor (C1) Fable (C2) res on Liv	ing Roots	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish E	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10) Rhizospheres on Living Roots (C tilled) Surrows (C8)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled	dor (C1) Fable (C2) Fres on Lived Iron (C4	ing Roots	Surface S Sparsely by Drainage Oxidized (C3) (where Crayfish E Saturation	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) I Visible on Aerial Imagery (C9)
Wetland Hydrology Indicate Primary Indicators (minimum 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)	of one required; ch	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized I	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface	dor (C1) Fable (C2) Fres on Lived Iron (C4	ing Roots	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish E Saturation Geomorp	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) I Visible on Aerial Imagery (C9) Inic Position (D2)
Wetland Hydrology Indicate Primary Indicators (minimum 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 Ae	of one required; ch	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface	dor (C1) Fable (C2) Fres on Lived Iron (C4	ing Roots	Surface S Sparsely by Drainage Oxidized by Crayfish E Saturation Geomorpi FAC-Neul	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10) Rhizospheres on Living Roots (C tilled) Surrows (C8) I Visible on Aerial Imagery (C9) Inic Position (D2) Iral Test (D5)
Wetland Hydrology Indicate Primary Indicators (minimum 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 Ae Water-Stained Leaves (I	of one required; ch	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized I	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface	dor (C1) Fable (C2) Fres on Lived Iron (C4	ing Roots	Surface S Sparsely by Drainage Oxidized by Crayfish E Saturation Geomorpi FAC-Neul	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) I Visible on Aerial Imagery (C9) Inic Position (D2)
Wetland Hydrology Indicate Primary Indicators (minimum 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 Ae	erial Imagery (B7)	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface blain in Re	dor (C1) Fable (C2) Fres on Liv Fred Iron (C4	ing Roots	Surface S Sparsely by Drainage Oxidized by Crayfish E Saturation Geomorpi FAC-Neul	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10) Rhizospheres on Living Roots (C tilled) Surrows (C8) I Visible on Aerial Imagery (C9) Inic Position (D2) Iral Test (D5)
Wetland Hydrology Indicate Primary Indicators (minimum 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 Ae Water-Stained Leaves (I	erial Imagery (B7) B9) Yes No _	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where Presence Thin Muck Other (Ex	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled) of Reduce Surface blain in Re	dor (C1) Fable (C2) Fres on Liv Fred Iron (C4	Roots	Surface S Sparsely by Drainage Oxidized by Crayfish E Saturation Geomorpi FAC-Neul	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10) Rhizospheres on Living Roots (C tilled) Surrows (C8) I Visible on Aerial Imagery (C9) Inic Position (D2) Iral Test (D5)
Wetland Hydrology Indicate Primary Indicators (minimum 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 Ae Water-Stained Leaves (I	erial Imagery (B7)	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where Presence Thin Muck Other (Ex	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled) of Reduce Surface blain in Re	dor (C1) Fable (C2) Fres on Liv Fred Iron (C4	Roots	Surface S Sparsely by Drainage Oxidized by Crayfish E Saturation Geomorpi FAC-Neul	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10) Rhizospheres on Living Roots (C tilled) Surrows (C8) I Visible on Aerial Imagery (C9) Inic Position (D2) Iral Test (D5)
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Wetland Hydrology Indicate Primary Indicators (minimum 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 Ae Water-Stained Leaves (I Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	erial Imagery (B7) B9) Yes No _ Yes No _ Yes No _	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled) of Reduce Surface blain in Re ches): ches): ches):	dor (C1) Fable (C2) Fres on Liv Fred Iron (C4	(e) Wet	Surface S Sparsely V Drainage Oxidized I (C3) (where Crayfish E Saturation Geomorp FAC-Neul Frost-Hea	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) I Visible on Aerial Imagery (C9) Inic Position (D2) Iral Test (D5) Ive Hummocks (D7) (LRR F)
Primary Indicators (minimum 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 Ae Water-Stained Leaves (I Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	erial Imagery (B7) B9) Yes No _ Yes No _ Yes No _	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled) of Reduce Surface blain in Re ches): ches): ches):	dor (C1) Fable (C2) Fres on Liv Fred Iron (C4	(e) Wet	Surface S Sparsely V Drainage Oxidized I (C3) (where Crayfish E Saturation Geomorp FAC-Neul Frost-Hea	oil Cracks (B6) Vegetated Concave Surface (B8 Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) I Visible on Aerial Imagery (C9) Inic Position (D2) Iral Test (D5) Ive Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		City/C	ounty:	Lockha	rt/Caldwell	_ Sampling Date: 06/18/201
Applicant/Owner: 130 Environmental Park, LLC						_ Sampling Point: T3-DP2
Investigator(s): Troegle, Josh & Littleton, Brandyn						- , 0
0 17				•		Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: HmB - Heiden-Wilson complex, 1					NWI classif	
Are climatic / hydrologic conditions on the site typical for thi						
Are Vegetation, Soil, or Hydrologys						present? Yes No
Are Vegetation, Soil, or Hydrology r					eeded, explain any answ	
						,
SUMMARY OF FINDINGS – Attach site map	snowing	sam	ipiin	g point i	ocations, transect	s, important features, et
Hydrophytic Vegetation Present? Yes N	lo <u>√</u>		is the	e Sampled	l Area	
Hydric Soil Present? Yes N	lo <u>√</u>			in a Wetlaı		No ✓
Wetland Hydrology Present? Yes N	lo <u>✓</u>					
Remarks:						
VEGETATION – Use scientific names of plan	its.					
Tree Stratum (Plot size: 30'	Absolute % Cover			Indicator	Dominance Test wor	
1. Prosopis glandulosa	20	Yes	CICS:	FACU	Number of Dominant S That Are OBL, FACW	
					(excluding FAC-):	1 (A)
2					Total Number of Demi	
3					Total Number of Domi Species Across All Str	•
4	20	= Tot	al Cov	er		
Sapling/Shrub Stratum (Plot size: 15')		_ 100	ai oov		Percent of Dominant S That Are OBL, FACW	
1. Prosopis glandulosa	50	Yes		FACU		
2. Ulmus crassifolia	5	No		FAC	Prevalence Index wo	
3. Mahonia trifoliolata	30	Yes		NI		Multiply by: x 1 =
4						x 2 =
5	05					x 3 =
Herb Stratum (Plot size: 5'	85	= Tot	al Cov	er		x 4 =
1. Opuntia engelmannii	10	No		NI		x 5 =
2 Nassella leucotricha	80	Yes		NI .	· —	(A) (B
3. Monarda citriodora	40	Yes		NI		
4						x = B/A =
5.					Hydrophytic Vegetat	
6						Hydrophytic Vegetation
7					2 - Dominance Te	
8					3 - Prevalence Inc	
9					data in Remark	Adaptations ¹ (Provide supportir ks or on a separate sheet)
10						ophytic Vegetation ¹ (Explain)
30'	130	= Tot	al Cov	er er		
Woody Vine Stratum (Plot size: 30') Smilax rotundifolia	5	Y		FAC	be present, unless dis	oil and wetland hydrology must turbed or problematic.
		<u> </u>				
2	5	- Tot	al Cov		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 35		. – 101	aı Ç0V	el .		es No
Remarks:						

Depth Matrix	Redox Features	nfirm the absence of indicators.)
(inches) Color (moist) %	Color (moist) % Type ¹ Loc	2 Texture Remarks
(menos)		
1		21 DI DI DI DI MANAGE
	M=Reduced Matrix, CS=Covered or Coated San	Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to a		-
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)
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	Red Parent Material (TF2)
Thick Dark Surface (A12)	Depleted Dark Surface (F7) Redox Depressions (F8)	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Sandy Mucky Mineral (S1)2.5 cm Mucky Peat or Peat (S2) (LRF	. ,	³ Indicators of hydrophytic vegetation and
5 cm Mucky Peat of Peat (S2) (LRR I		wetland hydrology must be present,
5 cm Mucky Feat of Feat (55) (LKK)	(MERA 12 & 13 OI ERR II)	unless disturbed or problematic.
Restrictive Layer (if present):		diffess distarbed of problematic.
Type:		Hydric Soil Present? Yes No ✓
Depth (inches):		Hydric Soil Present? Yes No ✓
Remarks:		
INDBOLOCA		
IYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one requi	red; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Salt Crust (B11)	Surface Soil Cracks (B6)
	Aquatic Invertebrates (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3)	Aquatic Invertebrates (B13)Hydrogen Sulfide Odor (C1)	Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)
High Water Table (A2) Saturation (A3)		Drainage Patterns (B10)
High Water Table (A2) Saturation (A3) Water Marks (B1)	Hydrogen Sulfide Odor (C1)Dry-Season Water Table (C2)	Drainage Patterns (B10)Oxidized Rhizospheres on Living Roots (C3
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Ro	 Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Ro (where not tilled)	 Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3 oots (C3) (where tilled) Crayfish Burrows (C8)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Ro (where not tilled) Presence of Reduced Iron (C4)	 Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3 oots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Ro (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7)	 Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3 oots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
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	Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Ro (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7)	— Drainage Patterns (B10) — Oxidized Rhizospheres on Living Roots (C3 oots (C3) (where tilled) — Crayfish Burrows (C8) — Saturation Visible on Aerial Imagery (C9) — Geomorphic Position (D2) — FAC-Neutral Test (D5)
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 Water-Stained Leaves (B9)	Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Ro (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7)	 Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3 oots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
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 Water-Stained Leaves (B9) Field Observations:	Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Room (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) (B7) Other (Explain in Remarks)	— Drainage Patterns (B10) — Oxidized Rhizospheres on Living Roots (C3 oots (C3) (where tilled) — Crayfish Burrows (C8) — Saturation Visible on Aerial Imagery (C9) — Geomorphic Position (D2) — FAC-Neutral Test (D5)
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 Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Root (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	— Drainage Patterns (B10) — Oxidized Rhizospheres on Living Roots (C3 oots (C3) (where tilled) — Crayfish Burrows (C8) — Saturation Visible on Aerial Imagery (C9) — Geomorphic Position (D2) — FAC-Neutral Test (D5)
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 Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Room (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) (B7) Other (Explain in Remarks)	— Drainage Patterns (B10) — Oxidized Rhizospheres on Living Roots (C3 oots (C3) (where tilled) — Crayfish Burrows (C8) — Saturation Visible on Aerial Imagery (C9) — Geomorphic Position (D2) — FAC-Neutral Test (D5)
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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 Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes Includes capillary fringe	Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Ro	Drainage Patterns (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) Wetland Hydrology Present? Yes No ✓
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Project/Site: 130 Environmental Park		City/Count	y: Lockhai	rt/Caldwell	_ Sampling Date: 06/18/2013
Applicant/Owner: 130 Environmental Park, LLC		•			Sampling Point: T3-DP3
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Depression					ve Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to					
Are climatic / hydrologic conditions on the site typical for thi		-			
Are Vegetation, Soil, or Hydrology s					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answ	
SUMMARY OF FINDINGS – Attach site map					
Hydrophytic Vegetation Present? Yes ✓ N Hydric Soil Present? Yes ✓ N	lo	ls t	he Sampled		
	lo	wit	hin a Wetlar	nd? Yes <u>▼</u>	No
Remarks:		1			
VEGETATION – Use scientific names of plan	ıts.				
		Dominar	nt Indicator	Dominance Test wor	ksheet;
Tree Stratum (Plot size: 30'	% Cover	Species'	? Status	Number of Dominant	Species
1				That Are OBL, FACW	2
2				(excluding FAC-):	<u>Z</u> (A)
3				Total Number of Domi Species Across All Str	2
4				Species Across Air St	did. (B)
Sapling/Shrub Stratum (Plot size: 15'		= Total Co	over	Percent of Dominant S That Are OBL, FACW	
1. Prosopis glandulosa	30	Yes	FACU		(775)
2. Juniperus virginiana	2	No	UPL	Prevalence Index wo	
3				1	Multiply by:
4					x 1 = x 2 =
5					x3=
Herb Stratum (Plot size: 5')	32	= Total Co	over	1	x 4 =
1 Iva annua	80	Yes	FAC		x5=
2 Phanopyrum gymnocarpon	20	No	OBL	· —	(A) (B)
3. Eleocharis palustris	25	Yes	OBL		
4					x = B/A =
5				Hydrophytic Vegetat	
6				1 - Rapid Test for ✓ 2 - Dominance Te	Hydrophytic Vegetation
7	-			3 - Prevalence In	
8					Adaptations ¹ (Provide supporting
9	_				ks or on a separate sheet)
10	125			Problematic Hydr	ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30'	125	= Total Co	over	¹ Indicators of hydric se	oil and wetland hydrology must
1					turbed or problematic.
2.				Hydrophytic	
5		= Total C	over	Vegetation Present? Y	es_✓ No
% Bare Ground in Herb Stratum 5				r tesentr T	es NO
Remarks:					
Shrubs at edge of depression.					

Depth	cription: (Descrit Matrix			lox Featur			irm the absence of in	idicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3	10 YR 3/1	80	10 YR 5/1	_ 15	_ <u>D</u>	_ <u>M</u>	Clay			
			10 YR 5/8	5	С	M	Clay			
3-8	10 YR 2/1	100								
			=Reduced Matrix, C			ted Sand		n: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators: (App	licable to all	LRRs, unless oth	erwise no	ted.)		Indicators for I	Problematic Hydric Soils ³ :		
Histoso	, ,			Gleyed M	. ,			(A9) (LRR I, J)		
	pipedon (A2)			Redox (S	•			rie Redox (A16) (LRR F, G, H)		
1 —	istic (A3) en Sulfide (A4)			ed Matrix (/ Mucky M	,	1		ce (S7) (LRR G) Depressions (F16)		
	d Layers (A5) (LRf	RF)		Gleyed M				outside of MLRA 72 & 73)		
1 —	uck (A9) (LRR F, G	-		ed Matrix			Reduced V			
Deplete	d Below Dark Surf	ace (A11)	✓ Redox	Dark Surf	face (F6)		Red Parent	Material (TF2)		
	ark Surface (A12)			ed Dark S	-	7)		ow Dark Surface (TF12)		
	Mucky Mineral (S1)			Depressi		E46)		lain in Remarks)		
	Mucky Peat or Pea ucky Peat or Peat (lains Dep			³ Indicators of hydrophytic vegetation and wetland hydrology must be present,			
	doky i eat of i eat ((OO) (EIRICI)	(101		70 O. E.	,		urbed or problematic.		
Restrictive	Layer (if present)	:								
Type: Cl	ay pan									
Depth (in	ches): 8-10 inches	3					Hydric Soil Pres	sent? Yes ✓ No		
Remarks:										
HYDROLO	GY		,,,			1,51				
Wetland Hy	drology Indicator	s:								
			d; check all that app	oly)			Secondary In	dicators (minimum of two required)		
	Water (A1)		Salt Crus					Soil Cracks (B6)		
ı 	ater Table (A2)			nvertebrat	es (B13)		Sparsely Vegetated Concave Surface (B8)			
Saturati	on (A3)		Hydrogei	n Sulfide C	Odor (C1)			Patterns (B10)		
Water M	farks (B1)		Dry-Seas	on Water	Table (C	2)		Rhizospheres on Living Roots (C3)		
Sedime	nt Deposits (B2)		✓ Oxidized	Rhizosph	eres on L	iving Roo	ts (C3) (where	e tilled)		
Drift De	posits (B3)		(where	not tilled)		Crayfish	Burrows (C8)		
Algal Ma	at or Crust (B4)		Presence	of Reduc	ed Iron (0	C4)	✓ Saturatio	on Visible on Aerial Imagery (C9)		
ı —	oosits (B5)			k Surface				phic Position (D2)		
ı —	on Visible on Aeria		7) Other (E)	xplain in R	emarks)			utral Test (D5)		
	stained Leaves (B9	<u></u>					Frost-He	ave Hummocks (D7) (LRR F)		
Field Obser			/							
Surface Wat			No ✓ Depth (i							
Water Table			No ✓ Depth (i							
Saturation P		Yes	No <u>✓</u> Depth (i	nches):		\ W	etland Hydrology Pre	esent? Yes ✓ No		
Describe Re	pillary fringe) corded Data (strea	ım gauge, mo	onitoring well, aeria	l photos, p	revious ir	spections	s), if available:			
	,		_							
Remarks:										

Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	Sampling Date: 06/18/2013				
Applicant/Owner: 130 Environmental Park, LLC		-			Sampling Point: T3-DP4				
Investigator(s): Troegle, Josh & Littleton, Brandyn									
Landform (hillslope, terrace, etc.): Depression		Local relief	(concave,	convex, none): Concav	/e Slope (%): 0-1				
Subregion (LRR): J - Southwestern Prairies									
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to				NWI classific					
Are climatic / hydrologic conditions on the site typical for this	s time of yea								
Are Vegetation, Soil, or Hydrology s	ignificantly	disturbed?	Are '	"Normal Circumstances"	present? Yes <u>√</u> No				
Are Vegetation, Soil, or Hydrology n			(If ne	eeded, explain any answe	ers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.									
Hydrophytic Vegetation Present? Yes <u>✓</u> N									
Hydrophytic Vegetation Present? Yes ✓ N Hydric Soil Present? Yes ✓ N	0		e Sampleo		·				
	°	with	in a Wetlaı	nd? Yes <u>▼</u>	No				
Remarks:		•							
VEGETATION - Use scientific names of plan	ts.								
201		Dominant		Dominance Test work	ksheet:				
	% Cover			Number of Dominant S					
1				That Are OBL, FACW, (excluding FAC-):	2 (A)				
2. 3.				Total Number of Domir	nant				
4				Species Across All Stra					
		= Total Cov	/er	Percent of Dominant S	species				
Sapling/Shrub Stratum (Plot size: 15'	40	Yes	FACU	That Are OBL, FACW,					
1. Prosopis glandulosa 2. Ulmus crassifolia	5	No	FAC	Prevalence Index wor	rksheet:				
3.	- —			Total % Cover of:	Multiply by:				
4			****	OBL species	x 1 =				
5				1	x 2 =				
51	45	= Total Cov	/er	1	x 3 =				
Herb Stratum (Plot size: 5'	50	Yes	FAC	UPL species	x 4 =				
2 Eleocharis palustris	50	Yes	OBL		(A) (B)				
3. Carex brevior	10	No	FAC						
4.					x = B/A =				
5				Hydrophytic Vegetati					
6				✓ 2 - Dominance Tes	Hydrophytic Vegetation				
7				3 - Prevalence Ind					
8				4 - Morphological	Adaptations ¹ (Provide supporting				
9				1	s or on a separate sheet)				
10.	110	= Total Cov	/or	Problematic Hydro	ophytic Vegetation¹ (Explain)				
Woody Vine Stratum (Plot size: 30')				¹ Indicators of hydric so be present, unless dist	oil and wetland hydrology must turbed or problematic.				
1					·				
2		= Total Cov		Hydrophytic Vegetation	,				
% Bare Ground in Herb Stratum		. 3.0.		Present? Ye	es No				
Remarks:									
Mesquite and cedar elm on edge of depression.									

Denth		eeded to docu	ox Feature				
Depth Matrix (inches) Color (moist)	%(Color (moist)	<u>%</u>	Type ¹	_Loc2	Texture	Remarks
0-5 10 YR 2/1		′R 6/8	10	С	M/PL	Clay	
			- —				
					-		
1T C. Concentration D.D.	nlotion DM=Doc	duced Matrix C	S-Covere	d or Coat	nd Sand G	rains ² l oc	ation: DI =Boro Lining M=Matrix
¹ Type: C=Concentration, D=De Hydric Soil Indicators: (Appl					ed Sand G		ation: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
•	icable to all LKN						•
Histosol (A1)			Gleyed M				uck (A9) (LRR I, J)
Histic Epipedon (A2)			Redox (St d Matrix (,			Prairie Redox (A16) (LRR F, G, H) urface (S7) (LRR G)
Black Histic (A3) Hydrogen Sulfide (A4)			Mucky Mi	,			ains Depressions (F16)
Stratified Layers (A5) (LRF	P F)		Gleyed M				R H outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, G	•		ed Matrix (ed Vertic (F18)
Depleted Below Dark Surfa		✓ Redox		. ,			rent Material (TF2)
Thick Dark Surface (A12)	V/	_	ed Dark S)		nallow Dark Surface (TF12)
Sandy Mucky Mineral (S1)		Redox	Depression	ons (F8)	,		Explain in Remarks)
2.5 cm Mucky Peat or Pea	t (S2) (LRR G, H	High P	lains Depr	essions (l	16)		of hydrophytic vegetation and
5 cm Mucky Peat or Peat (LRA 72 &	73 of LRI	RH)	wetland	hydrology must be present,
						unless	disturbed or problematic.
Restrictive Layer (if present):							
Type: Cobble						1	
Type: Cobble Depth (inches): 5 inches Remarks:						Hydric Soil	Present? Yes ✓ No
Depth (inches): 5 inches		-				Hydric Soil	Present? Yes <u>√</u> No
Depth (inches): 5 inches Remarks:		-				Hydric Soil	Present? Yes <u>√</u> No
Depth (inches): 5 inches Remarks: IYDROLOGY	5:	-				Hydric Soil	Present? Yes <u>√</u> No
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator		eck all that app	oly)				
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of						Seconda	ry Indicators (minimum of two required
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of Surface Water (A1)		Salt Crus	t (B11)	es (B13)		Seconda Surfa	ry Indicators (minimum of two required
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the company of the		Salt Crus	t (B11) nvertebrate			Seconda Surfa Spar	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the color) Surface Water (A1) High Water Table (A2) Saturation (A3)		Salt Crus Aquatic Ir Hydroger	t (B11) overtebrate o Sulfide C	dor (C1)		Seconda Surfa Spar Drain	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Salt Crus Aquatic II Hydroger Dry-Seas	t (B11) nvertebrate n Sulfide C on Water	odor (C1) Table (C2		Seconda Surfa Spar Drain Oxid	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Ci
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Salt Crus Aquatic Ir Hydroger Dry-Seas Oxidized	t (B11) nvertebrate n Sulfide C on Water Rhizosphe	odor (C1) Table (C2 eres on Li		Seconda Surfa Spar Drain Oxid (C3)	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Cahere tilled)
Depth (inches): 5 inches Remarks: YDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where	t (B11) nvertebrate n Sulfide C on Water Rhizosphe not tilled	odor (C1) Table (C2 eres on Li	ing Roots	Seconda Surfa Spar Drain Oxid (C3) (w Cray	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Cahere tilled)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the color) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence	t (B11) nvertebrate n Sulfide C on Water Rhizosphe not tilled	odor (C1) Table (C2 eres on Li) ed Iron (C	ing Roots	Seconda Surfa Spar Drain Oxid (C3) (w) Cray Satu	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Cahere tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the color) 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)	f one required; ch	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized	t (B11) nvertebrate n Sulfide Con Water Rhizosphe not tilled e of Reduce	Odor (C1) Table (C2 eres on Li) ed Iron (C (C7)	ing Roots	Seconda Surfa Spar Drain Oxid (C3) (w Cray ✓ Satu Geo	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Ci here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of 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 Aeria	f one required; ch	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence	t (B11) nvertebrate n Sulfide Con Water Rhizosphe not tilled e of Reduce	Odor (C1) Table (C2 eres on Li) ed Iron (C (C7)	ing Roots	Seconda Surfa Spar Drain Oxid (C3) (w Cray Satu Geol FAC	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Cihere tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum or 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 Aeria Water-Stained Leaves (B9)	f one required; ch	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized	t (B11) nvertebrate n Sulfide Con Water Rhizosphe not tilled e of Reduce	Odor (C1) Table (C2 eres on Li) ed Iron (C (C7)	ing Roots	Seconda Surfa Spar Drain Oxid (C3) (w Cray Satu Geol FAC	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Ci here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum or 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 Aeria Water-Stained Leaves (B9)	f one required; ch	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc	t (B11) nvertebrate n Sulfide C on Water Rhizosphe not tilled of Reduc k Surface xplain in R	odor (C1) Table (C2 eres on Li) ed Iron (C (C7) emarks)	ving Roots	Seconda Surfa Spar Drain Oxid (C3) (w Cray Satu Geol FAC	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Cihere tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the color of th	I Imagery (B7)	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Con Water Rhizospho not tilled of Reduc k Surface xplain in R	odor (C1) Table (C2 eres on Li) ed Iron (C (C7) emarks)	ving Roots	Seconda Surfa Spar Drain Oxid (C3) (w Cray Satu Geol FAC	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Cihere tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the color of the	f one required; ch	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Con Water Rhizospho not tilled of Reduc k Surface xplain in R	odor (C1) Table (C2 eres on Li) ed Iron (C (C7) emarks)	ving Roots	Seconda Surfa Spar Drain Oxid (C3) (w Cray Satu Geol FAC	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Cihere tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the color of the	I Imagery (B7)	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide C on Water Rhizosphe not tilled of Reduc k Surface xplain in R	odor (C1) Table (C2 eres on Li) ed Iron (C (C7) emarks)	ving Roots	Seconda Surfa Spar Drain Oxid (C3) (w) Cray Satu Geol FAC Fros	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Cihere tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum or 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 Aeria Water-Stained Leaves (B9 Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Il Imagery (B7) Yes No _ Yes No _	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Con Water Rhizospho not tilled of Reduct k Surface xplain in R	odor (C1) Table (C2 eres on Li) ed Iron (C (C7) emarks)	ving Roots 4) Wet	Seconda Surfa Spar Drair Oxid (C3) (w) Cray Geo FAC Fros	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Cihere tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum or 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 Aeria Water-Stained Leaves (B9 Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Il Imagery (B7) Yes No _ Yes No _	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Con Water Rhizospho not tilled of Reduct k Surface xplain in R	odor (C1) Table (C2 eres on Li) ed Iron (C (C7) emarks)	ving Roots 4) Wet	Seconda Surfa Spar Drair Oxid (C3) (w) Cray Geo FAC Fros	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Cihere tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (inches): 5 inches Remarks: HYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum or 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 Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (streat	Il Imagery (B7) Yes No _ Yes No _	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Con Water Rhizospho not tilled of Reduct k Surface xplain in R	odor (C1) Table (C2 eres on Li) ed Iron (C (C7) emarks)	ving Roots 4) Wet	Seconda Surfa Spar Drair Oxid (C3) (w) Cray Geo FAC Fros	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Cihere tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (inches): 5 inches Remarks: IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum or 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 Aeria Water-Stained Leaves (B9 Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Il Imagery (B7) Yes No _ Yes No _	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Con Water Rhizospho not tilled of Reduct k Surface xplain in R	odor (C1) Table (C2 eres on Li) ed Iron (C (C7) emarks)	ving Roots 4) Wet	Seconda Surfa Spar Drair Oxid (C3) (w) Cray Geo FAC Fros	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Cihere tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (inches): 5 inches Remarks: YDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum or 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 Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (streat	Il Imagery (B7) Yes No _ Yes No _	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Con Water Rhizospho not tilled of Reduct k Surface xplain in R	odor (C1) Table (C2 eres on Li) ed Iron (C (C7) emarks)	ving Roots 4) Wet	Seconda Surfa Spar Drair Oxid (C3) (w) Cray Geo FAC Fros	ry Indicators (minimum of two required ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) ized Rhizospheres on Living Roots (Chere tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park	(City/Coun	ty: Lockha	rt/Caldwell	Sampling Date: 06/18/2013				
Applicant/Owner: 130 Environmental Park, LLC		-			Sampling Point: T3-DP5				
Investigator(s): Troegle, Josh & Littleton, Brandyn									
Landform (hillslope, terrace, etc.): Depression					ve Slope (%): 0-1				
Subregion (LRR): J - Southwestern Prairies									
Soil Map Unit Name: HoC2 - Houston Black clay, 3 to 5									
Are climatic / hydrologic conditions on the site typical for this									
Are Vegetation, Soil, or Hydrologys					present? Yes ✓ No				
Are Vegetation, Soil, or Hydrology n				eeded, explain any answ					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.									
Hydrophytic Vegetation Present? Yes ✓ N	0								
	0		the Sampled						
	00	Wi	thin a Wetlar	na? Yes <u>▼</u>	No				
Remarks:									
VECTATION Has a jointific manner of along	4-								
VEGETATION – Use scientific names of plan		Domino	nt Indicator	Dominance Test wor	kahaati				
Tree Stratum (Plot size: 30'			nt Indicator Status	Number of Dominant S					
1				That Are OBL, FACW,	or FAC				
2				(excluding FAC-):	<u>2</u> (A)				
3				Total Number of Domi					
4				Species Across All Str	ata: <u>3</u> (B)				
Sapling/Shrub Stratum (Plot size: 15')		= Total C	over	Percent of Dominant S	Species or FAC: 66 (A/B)				
1. Prosopis glandulosa	40	Yes	FACU	That Are OBL, FACW,	or FAC: 66 (A/B)				
2. Ulmus crassifolia	5	No	FAC	Prevalence Index wo	rksheet:				
3. Juniperus virginiana	5	No	UPL		Multiply by:				
4					x 1 =				
5					x 2 =				
5'	50	= Total C	over	1	x 3 = x 4 =				
Herb Stratum (Plot size: 5'	50	Yes	FAC	UPL species					
2. Eleocharis palustris	50	Yes	OBL		(A)(B)				
3. Carex brevior	10	No	FAC		(5)				
4.					x = B/A =				
5				Hydrophytic Vegetat					
6.				1 '	Hydrophytic Vegetation				
7				✓ 2 - Dominance Te					
8				l —	Adaptations ¹ (Provide supporting				
9				data in Remark	ks or on a separate sheet)				
10				Problematic Hydro	ophytic Vegetation¹ (Explain)				
Woody Vine Stratum (Plot size: 30'	110	= Total C	Cover	¹ Indicators of hydric so	oil and wetland hydrology must				
1				be present, unless dis					
2.				Hydrophytic					
% Bare Ground in Herb Stratum		= Total C	Cover	Vegetation	es <u>√</u> No				
Remarks:		. ,,							
Mesquite, cedar and cedar elm on edge of depressi	on.								

						or confir	m the absence of	indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type ¹	Loc ²	- Texture	Remarks
0-5	10 YR 2/1		5 YR 6/8	10	C	M/PL	Clay	Noniano
0.0	- 10 11(2)1		-		<u> </u>			
					-	4		
		_			-			
	Concentration, D=D					ed Sand (on: PL=Pore Lining, M=Matrix.
•	I Indicators: (App	licable to all I						Problematic Hydric Soils ³ :
Histoso	, .			Gleyed M				k (A9) (LRR I, J)
_	Epipedon (A2)			Redox (S ed Matrix (-			irie Redox (A16) (LRR F, G, H) ace (S7) (LRR G)
_	Histic (A3) gen Sulfide (A4)			Mucky M		1		is Depressions (F16)
	ed Layers (A5) (LR	R F)		Gleyed M				outside of MLRA 72 & 73)
	luck (A9) (LRR F, 0			ed Matrix				Vertic (F18)
	ed Below Dark Surf			Dark Surf	. ,			nt Material (TF2)
_	Thick Dark Surface (A12) Depleted Dark Surface (F7)							low Dark Surface (TF12)
	Sandy Mucky Mineral (S1) Redox Depressions (F8)							plain in Remarks)
	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)							nydrophytic vegetation and
5 cm N	lucky Peat or Peat	(53) (LRK F)	(IVI	LRA /2 &	13 OF LR	К П)	-	drology must be present, turbed or problematic.
Restrictive	Layer (if present)):			,		unicas dia	turbed of problemate.
Type: C								
	nches): 5						Hydric Soil Pre	esent? Yes ✓ No
Remarks:								
Remarks.								
HYDROL	DGY							
	ydrology Indicato							
Primary Ind	licators (minimum o	of one required	i; check all that app	oly)			Secondary	Indicators (minimum of two required)
Surface	e Water (A1)		Salt Crus	t (B11)			_	Soil Cracks (B6)
High W	/ater Table (A2)		Aquatic I	nvertebrat	es (B13)		Sparse	ly Vegetated Concave Surface (B8)
Satura	tion (A3)			n Sulfide C			Drainag	ge Patterns (B10)
Water	Marks (B1)			on Water	•	•	_	d Rhizospheres on Living Roots (C3)
Sedime	ent Deposits (B2)		✓ Oxidized	Rhizosph	eres on Li	ving Root	. ,	re tilled)
	eposits (B3)		,	not tilled	•			h Burrows (C8)
	flat or Crust (B4)		_	of Reduc	•	(4)		ion Visible on Aerial Imagery (C9)
	eposits (B5)			k Surface	. ,			rphic Position (D2)
_	tion Visible on Aeri		7) Other (E:	xplain in R	emarks)			eutral Test (D5)
	Stained Leaves (B	9)					Frost-H	leave Hummocks (D7) (LRR F)
Field Obse								
	ater Present?		No ✓ Depth (i					
Water Tabl	e Present?		No 🗸 Depth (i					,
Saturation		Yes I	No <u>✓</u> Depth (i	nches): _		We	tland Hydrology P	resent? Yes ✓ No
Describe R	apillary fringe) ecorded Data (stre	am gauge, mo	nitoring well, aeria	I photos, r	revious ir	spections), if available:	
22301.00 1	(5110)	J = - g = ,	J,	, ["			
Remarks:								

Project/Site: 130 Environmental Park		City/Count	_{ty:} Lockha	rt/Caldwell	Sampling Date: 06/18/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T3-DP6
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Depression		Local relie	ef (concave,	convex, none): Concav	'e Slope (%): 0-1%
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: HoC2 - Houston Black clay, 3 to 5					
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology s					oresent? Yes ✓ No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map					•
Hydrophytic Vegetation Present? Yes ✓ N	0				
Hydric Soil Present? Yes ✓ N	0		the Sampled		No
Wetland Hydrology Present? Yes <u>✓</u> N	o	Wit	thin a Wetlai	iid! Tes <u>v</u>	NO
Remarks:					
VEGETATION – Use scientific names of plan	ts.				
201			nt Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 30'			? Status	Number of Dominant S	
1				That Are OBL, FACW, (excluding FAC-):	2 (A)
2					, , ,
4.				Total Number of Domir Species Across All Stra	2
7		= Total C	over	Boroont of Dominant C	
Sapling/Shrub Stratum (Plot size: 15')				Percent of Dominant S That Are OBL, FACW,	
1. Prosopis glandulosa	40	Yes	FACU	Prevalence Index wor	kchooti
2. Ulmus crassifolia	- 5	No	FAC		Multiply by:
3. Juniperus virginiana	_ 5	No	_ UPL		x1=
4					x 2 =
5	50	= Total C			x 3 =
Herb Stratum (Plot size: 5'		- Total C	OVE	FACU species	x 4 =
1. Phyla lanceolata	25	No	FACW	UPL species	x 5 =
2. Iva annua	50	Yes	FAC	Column Totals:	(A) (B)
3. Eleocharis palustris	50	Yes	OBL	Prevalence Index	= B/A =
4. Carex brevior	_ 10	No	FAC	Hydrophytic Vegetation	
5				1 - Rapid Test for I	
6				✓ 2 - Dominance Tes	
7				3 - Prevalence Ind	ex is ≤3.0 ¹
8				4 - Morphological /	Adaptations ¹ (Provide supporting
9					s or on a separate sheet)
10.	135	= Total C	over	Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30 ^t			0101		il and wetland hydrology must
1				be present, unless distr	arbed or problematic.
2				Hydrophytic	
9/ Rara Ground in Horb Stratum		= Total C	over	Vegetation Present? Ye	s No
% Bare Ground in Herb Stratum					
Shrub layer at perimeter of depression.					
2 2					

Profile Desc	cription: (Describ	e to the depth	needed to docu	ment the	indicator	or confirm	m the absence of	findicators.)
Depth	Matrix			x Feature		1.0.2	. Tavtura	Domonico
(inches)	Color (moist)	90 5	Color (moist) YR 6/8	<u>%</u> 10	Type ¹	<u>Loc²</u> M/PL	<u>Texture</u> _ Clay	Remarks
0-5	10 YR 2/1	_ 90 _ 5) 1K 0/0	- 10		- IVI/PL	Clay	
-								
¹ Type: C=C	oncentration, D=D	epletion, RM=R	Reduced Matrix, C	S=Covere	d or Coat	ed Sand G	Grains. ² Locat	tion: PL=Pore Lining, M=Matrix.
	Indicators: (App					-		or Problematic Hydric Soils ³ :
Histosol					atrix (S4)		1 cm Mu	ck (A9) (LRR I, J)
_	pipedon (A2)			Redox (S				rairie Redox (A16) (LRR F, G, H)
_	istic (A3)		Strippe	d Matrix (S6)		Dark Sur	face (S7) (LRR G)
Hydroge	en Sulfide (A4)		Loamy	Mucky Mi	ineral (F1))	_	ins Depressions (F16)
	d Layers (A5) (LRI	-			latrix (F2)			H outside of MLRA 72 & 73)
_	uck (A9) (LRR F, G	. ,		ed Matrix	. ,			Vertic (F18)
ı — ·	d Below Dark Surf	ace (A11)		Dark Surf	ace (F6) urface (F7	7)		ent Material (TF2) allow Dark Surface (TF12)
_	ark Surface (A12) Mucky Mineral (S1)			Depression	•)		xplain in Remarks)
	Mucky Peat or Pea				ressions (F16)		hydrophytic vegetation and
	ucky Peat or Peat				73 of LR	-		nydrology must be present,
	,		•				unless di	isturbed or problematic.
	Layer (if present)							
Type: Co	obble							
Depth (in	ches): 5"		_				Hydric Soil P	resent? Yes ✓ No
Remarks:								
-								
HYDROLO	GY							
Wetland Hy	drology Indicator	s:						
Primary Indi	cators (minimum o	f one required;	check all that app	ly)			Secondary	Indicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surfac	ce Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic In	vertebrat	es (B13)		Spars	ely Vegetated Concave Surface (B8)
Saturati	on (A3)		Hydrogen	Sulfide C	odor (C1)		Draina	age Patterns (B10)
Water M	farks (B1)		Dry-Seas					ed Rhizospheres on Living Roots (C3)
Sedime	nt Deposits (B2)		✓ Oxidized	Rhizosph	eres on Li	ving Roots	s (C3) (who	ere tilled)
Drift De	posits (B3)		(where	not tilled)			sh Burrows (C8)
Algal Ma	at or Crust (B4)		Presence	of Reduc	ed fron (C	(4)		ation Visible on Aerial Imagery (C9)
Iron De	posits (B5)		Thin Mucl				✓ Geom	orphic Position (D2)
_	ion Visible on Aeria		Other (Ex	plain in R	emarks)			Neutral Test (D5)
Water-S	Stained Leaves (B9)					Frost-	Heave Hummocks (D7) (LRR F)
Field Obser	vations:							
Surface Wat	ter Present?		o ✓ Depth (ir			1		
Water Table	Present?	Yes N	o 🗸 🔃 Depth (ir	nches):				
Saturation P	resent?	Yes N	o 🗸 🔃 Depth (ir	iches):		We	tland Hydrology I	Present? Yes <u>√</u> No
(includes ca	pillary fringe) corded Data (strea	m dauga man	itoring well pariel	photos =	rovious in	enections) if available:	
Describe Re	ecorded Data (strea	am gauge, mon	moring well, aerial	priotos, p	nevious ir	ispections)	,, ii avallable.	
Remarks:								

Project/Site: 130 Environmental Park		Citv/Co	unty:	Lockha	rt/Caldwell	Sampling	Date: 06/18	3/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX			
Investigator(s): Troegle, Josh & Littleton, Brandyn						- , 0		
Landform (hillslope, terrace, etc.): Depression						ve	Slope (%):	. 0-1%
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: HoC2 - Houston Black clay, 3 to 5								
Are climatic / hydrologic conditions on the site typical for this			_		-			
Are Vegetation, Soil, or Hydrologys					"Normal Circumstances"		es √ N	lo
Are Vegetation, Soil, or Hydrologyn					eeded, explain any answ			
SUMMARY OF FINDINGS – Attach site map				•			,	es, etc.
Hydrophytic Vegetation Present? Yes ✓ N	0							
Hydric Soil Present? Yes ✓ N		- 1		Sampled				
	0	'	within	a Wetlar	na? Yes_ <u>▼</u>	No _		
Remarks:	***			-				
VEGETATION – Use scientific names of plan	ts.							
	Absolute			ndicator	Dominance Test wor	ksheet:		-
Tree Stratum (Plot size: 30'	% Cover	Speci	ies?	Status	Number of Dominant S	Species		
1					That Are OBL, FACW,	or FAC	2	(4)
2		-			(excluding FAC-):	_		(A)
3					Total Number of Domi		3	(D)
4					Species Across All Str	ata:	<u>, </u>	(B)
Sapling/Shrub Stratum (Plot size: 15'		= Total	I Cove	r	Percent of Dominant S	Species	66	(A/D)
1. Prosopis glandulosa	40	Yes		FACU	That Are OBL, FACW,	or FAC:		(A/B)
2. Ulmus crassifolia	5	No		FAC	Prevalence Index wo	rksheet:		
3. Juniperus virginiana	5	No		UPL	Total % Cover of:		Multiply by:	_
4.					OBL species			
5					FACW species			
51	50	= Total	l Cove	r	FAC species			_
Herb Stratum (Plot size: 5')	50	V		EAC	FACU species			_
1. Iva annua 2. Eleocharis palustris	50	Yes		OBL		x 5		— (D)
2. Eleocharis paiasiris 3 Carex brevior	10	No		FAC	Column Totals:	(A)		— (B)
· -					Prevalence Inde	x = B/A = _		_
5.					Hydrophytic Vegetat	ion Indicato	rs:	
6					1 - Rapid Test for		Vegetation	
7					✓ 2 - Dominance Te			
8					3 - Prevalence Inc			
9.					4 - Morphological data in Remark	Adaptations	(Provide sup	porting
10.					Problematic Hydro		-	
	110	= Tota	l Cove	r		-		
Woody Vine Stratum (Plot size: 30'					¹ Indicators of hydric so be present, unless dis			must
1			— -		be present, unless dis	turbed or pro		
2					Hydrophytic			
% Bare Ground in Herb Stratum		= Tota	I Cove	er	Vegetation Present? Yes	es <u>√</u>	No	
Remarks:								
Mesquite, cedar and cedar elm on edge of depression	on.							

DepthMatrix			x Feature		×	_	
(inches) Color (moist)		olor (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0-5 10 YR 2/1	90 5 YF	R 6/8	10	<u>C</u>	M/PL	Clay	
							-
Type: C=Concentration, D=Depl	letion, RM=Redu	uced Matrix, CS	S=Covere	d or Coate	ed Sand G	rains. ² Lo	ocation: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applica							s for Problematic Hydric Soils ³ :
Histosol (A1)		Sandy (Sleyed Ma	atrix (S4)		1 cm	Muck (A9) (LRR I, J)
Histic Epipedon (A2)			Redox (S5			Coas	t Prairie Redox (A16) (LRR F, G, H)
Black Histic (A3)		Stripped	d Matrix (S	36)		Dark	Surface (S7) (LRR G)
Hydrogen Sulfide (A4)		Loamy	Mucky Mii	neral (F1)		High	Plains Depressions (F16)
Stratified Layers (A5) (LRR F	;)		Gleyed Ma			`	RR H outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, G, F			d Matrix (iced Vertic (F18)
Depleted Below Dark Surface	e (A11)	✓ Redox (Parent Material (TF2)
Thick Dark Surface (A12)				urface (F7)		Shallow Dark Surface (TF12)
Sandy Mucky Mineral (S1)	00) // DD 0 //)		Depressio		:40)		r (Explain in Remarks)
2.5 cm Mucky Peat or Peat (\$				essions (F 73 of LRF	-		s of hydrophytic vegetation and
5 cm Mucky Peat or Peat (S3	(LKK F)	(ML	KA /2 &	/3 01 LKF	(п)		nd hydrology must be present, as disturbed or problematic.
Restrictive Layer (if present):						unes	as disturbed of problematic.
Type: Cobble							
Type: Gobbie						1	
						Hydric So	il Present? Yes ✓ No
Depth (inches): 5"						Hydric So	il Present? Yes ✓ No
						Hydric So	il Present? Yes ✓ No
Depth (inches): 5"						Hydric So	il Present? Yes ✓ No
Depth (inches): 5"						Hydric So	il Present? Yes ✓ No
Depth (inches): 5" Remarks:						Hydric So	il Present? Yes ✓ No
Depth (inches): 5" Remarks: YDROLOGY						Hydric So	il Present? Yes ✓ No
Depth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators:	no required; che	and all that anni	v)				
Depth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o	ne required; che					Second	dary Indicators (minimum of two require
Depth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1)	ne required; che	Salt Crust	(B11)	(012)		Second Su	dary Indicators (minimum of two require
Depth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2)	ne required; che	Salt Crust Aquatic In	(B11) vertebrate			Second Su Sp	dary Indicators (minimum of two require Irface Soil Cracks (B6) Parsely Vegetated Concave Surface (B8
Depth (inches): 5" Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3)	ne required; che	Salt Crust Aquatic In Hydrogen	(B11) vertebrate Sulfide O	dor (C1)		Second Su Sp Dr	dary Indicators (minimum of two require Irface Soil Cracks (B6) parsely Vegetated Concave Surface (B8 ainage Patterns (B10)
Depth (inches): 5" Primary Indicators (minimum of of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ne required; che	Salt Crust Aquatic In Hydrogen Dry-Seaso	(B11) vertebrate Sulfide O on Water	dor (C1) Table (C2		Second Su Sp Dra Ox	dary Indicators (minimum of two require Irface Soil Cracks (B6) Parsely Vegetated Concave Surface (B8 Bainage Patterns (B10) Kidized Rhizospheres on Living Roots (C
Depth (inches): 5" Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ne required; che	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water ⁻ Rhizosphe	dor (C1) Table (C2 eres on Liv		Second Su Sp Dra Ox (C3) (dary Indicators (minimum of two require Irface Soil Cracks (B6) Parsely Vegetated Concave Surface (B8 ainage Patterns (B10) kidized Rhizospheres on Living Roots (C
Depth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ne required; che	Salt Crust Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled	dor (C1) Table (C2 eres on Liv	ing Roots	Second Su Dra Ox Ox (C3) (Cr	dary Indicators (minimum of two require Irface Soil Cracks (B6) Parsely Vegetated Concave Surface (B8 ainage Patterns (B10) kidized Rhizospheres on Living Roots (C where tilled) ayfish Burrows (C8)
Primary Indicators: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ne required; che	Salt Crust Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce	dor (C1) Table (C2 eres on Liv) ed Iron (C	ing Roots	Second Su Sp Dr Ox (C3) (Cr ✓ Sa	dary Indicators (minimum of two require urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8 ainage Patterns (B10) uidized Rhizospheres on Living Roots (Concave tilled) ayfish Burrows (C8) uturation Visible on Aerial Imagery (C9)
Depth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where Presence Thin Muck	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled t Surface	dor (C1) Table (C2 eres on Liv) ed Iron (C (C7)	ing Roots	Second Su Sp Dn Ox (C3) (Cn ✓ Sa ✓ Ge	dary Indicators (minimum of two require inface Soil Cracks (B6) parsely Vegetated Concave Surface (B8 ainage Patterns (B10) kidized Rhizospheres on Living Roots (Concave tilled) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) accomorphic Position (D2)
Popth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Salt Crust Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled t Surface	dor (C1) Table (C2 eres on Liv) ed Iron (C (C7)	ing Roots	Second Su Sp Dra Ox (C3) (C3) (C4) Ca ✓ Ga FA	dary Indicators (minimum of two require of the second content of two requires of two require
Depth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where Presence Thin Muck	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled t Surface	dor (C1) Table (C2 eres on Liv) ed Iron (C (C7)	ing Roots	Second Su Sp Dra Ox (C3) (C3) (C4) Ca ✓ Ga FA	dary Indicators (minimum of two require inface Soil Cracks (B6) parsely Vegetated Concave Surface (B8 ainage Patterns (B10) kidized Rhizospheres on Living Roots (Concave tilled) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) accomorphic Position (D2)
Depth (inches): 5" Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of o 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 II Water-Stained Leaves (B9)		Salt Crust Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where Presence Thin Muck	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled t Surface	dor (C1) Table (C2 eres on Liv) ed Iron (C (C7)	ing Roots	Second Su Sp Dra Ox (C3) (C3) (C4) Ca ✓ Ga FA	dary Indicators (minimum of two require of the second content of two requires of two require
Depth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 In Water-Stained Leaves (B9) Field Observations:		Salt Crust Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re	dor (C1) Table (C2 eres on Liv) ed Iron (C (C7) emarks)	ring Roots	Second Su Sp Dra Ox (C3) (C3) (C4) Ca ✓ Ga FA	dary Indicators (minimum of two require of the second content of two requires of two require
Depth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 In Water-Stained Leaves (B9) Field Observations: Surface Water Present?	magery (B7)	Salt Crust Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water ¹ Rhizosphe not tilled of Reduce s Surface plain in Re	dor (C1) Table (C2 eres on Liv) ed Iron (C (C7) emarks)	ring Roots	Second Su Sp Dra Ox (C3) (C3) (C4) Ca ✓ Ga FA	dary Indicators (minimum of two require of the second content of two requires of two require
Depth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 II Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present?	magery (B7) es No <u>▼</u> es No <u>▼</u>	Salt Crust Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches):	dor (C1) Table (C2 eres on Liv) ed Iron (C (C7) emarks)	ring Roots 4)	Second Su Dr Ox (C3) (C3) (C3) ✓ Sa FA Free	dary Indicators (minimum of two require or acceptance of the contract of two requires or acceptance of two requires or acceptance of two requires of two requi
Depth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 Inwater-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Yet Saturation Present?	magery (B7) es No <u>▼</u> es No <u>▼</u>	Salt Crust Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water - Rhizosphe not tilled; of Reduce Surface plain in Re ches): ches): ches):	dor (C1) Table (C2 eres on Liv) ed Iron (C (C7) emarks)	ving Roots 4) Wet	Second Su Sp Ox (C3) (Cr Sa Free land Hydrolo	dary Indicators (minimum of two require of the second content of two requires of two require
Popth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 II Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yether Saturation Present?	magery (B7) es No <u>▼</u> es No <u>▼</u>	Salt Crust Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water - Rhizosphe not tilled; of Reduce Surface plain in Re ches): ches): ches):	dor (C1) Table (C2 eres on Liv) ed Iron (C (C7) emarks)	ving Roots 4) Wet	Second Su Sp Ox (C3) (Cr Sa Free land Hydrolo	dary Indicators (minimum of two require or acceptance of the contract of two requires or acceptance of two requires or acceptance of two requires of two requi
Depth (inches): 5" Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 In Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Your Saturation Present? Saturation Present?	magery (B7) es No <u>▼</u> es No <u>▼</u>	Salt Crust Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water - Rhizosphe not tilled; of Reduce Surface plain in Re ches): ches): ches):	dor (C1) Table (C2 eres on Liv) ed Iron (C (C7) emarks)	ving Roots 4) Wet	Second Su Sp Ox (C3) (Cr Sa Free land Hydrolo	dary Indicators (minimum of two require or acceptance of the contract of two requires or acceptance of two requires or acceptance of two requires of two requi
Depth (inches): 5" Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of o 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 Inwater-Stained Leaves (B9) Field Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present?	magery (B7) es No <u>▼</u> es No <u>▼</u>	Salt Crust Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water - Rhizosphe not tilled; of Reduce Surface plain in Re ches): ches): ches):	dor (C1) Table (C2 eres on Liv) ed Iron (C (C7) emarks)	ving Roots 4) Wet	Second Su Sp Ox (C3) (Cr Sa Free land Hydrolo	dary Indicators (minimum of two require or acceptance of the contract of two requires or acceptance of two requires or acceptance of two requires of two requi
Depth (inches): 5" Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of o 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 In Water-Stained Leaves (B9) Field Observations: Surface Water Present? Vater Table Present? Vater Table Present? Saturation Present? Your Table Recorded Data (stream	magery (B7) es No <u>▼</u> es No <u>▼</u>	Salt Crust Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water - Rhizosphe not tilled; of Reduce Surface plain in Re ches): ches): ches):	dor (C1) Table (C2 eres on Liv) ed Iron (C (C7) emarks)	ving Roots 4) Wet	Second Su Sp Ox (C3) (Cr Sa Free land Hydrolo	dary Indicators (minimum of two require or acceptance of the contract of two requires or acceptance of two requires or acceptance of two requires of two requi

Section Township Range NA	Project/Site: 130 Environmental Park		City/Co	ounty: Lo	ockhart	/Caldwell	Sampling Date: 06	/18/2013
Section, Township, Range: NA								
Local relief (conceive, convex, none); None Slope (%); 0-1							1.40	
Solid Map Unit Name: Buß - Burleson clay, 1 to 3 percent slopes Normal Circumstances	•						Slope	(%): 0-1
No No No No No No No	, , , , , , , , , , , , , , , , , , , ,			-			•	—
No	· · · · ——-							
Summary Soil	Are climatic / hydrologic conditions on the site typica	I for this time of yea	ar? Ye	es <u></u> ✓	No	(If no, explain in l	Remarks.)	
Summary Soil	Are Vegetation, Soil, or Hydrology	significantly	disturb	bed?	Are "N	Normal Circumstances"	present? Yes ✓	_ No
Summary OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								
Hydric Soil Present? Yes					oint lo	cations, transect	s, important feat	ures, etc.
Hydric Soil Present? Yes	Hydrophytic Vegetation Present? Yes	No. √		la the Co	ampled.	Area		-
	Hydric Soil Present? Yes	No <u>√</u>			-		No 🗸	
Absolute Dominant Indicator Species? Status Status Status Species Status Species? Sta	Wetland Hydrology Present? Yes	No <u>√</u>		Within a	vvctiani			
Dominant Indicator Species Status Number of Dominant Species Status Status Species Status Species	Remarks:							
Dominant Indicator Species Status Number of Dominant Species Status Status Species Status Species								
Dominant Indicator Species Status No. College Species Status Species Status No. College								
Dominant Indicator Species Status Number of Dominant Species Species Status Species Status Number of Dominant Species Species Status Status Species Status Status Species Status Status Species Status								
Tree Stratum (Plot size: 30'	VEGETATION – Use scientific names o					-		
1. Celtis laevigata 2. Prosopis glandulosa 2. O Yes FACU 2. Prosopis glandulosa 3. Ulmus crassifolia 4.	Trop Stratum (Blot size: 30'							
2.					- 1			
3. Ulmus crassifolia 4.			Yes	FA	CU		1	(A)
Species Across All Strata: 4 (B)		10	No	FAG	.c	Total Number of Domi	nant	
Septing/Shrub Stratum (Plot size: 15' 1. Bimelia lanuginosa 5 No NI 1. Bimelia lanuginosa 7 yes FACU	4.						A	(B)
Sapling/Shrub Stratum (Plot size: 15' 1. Bumelia lanuginosa 10 No FAC		55	= Tota	al Cover		Percent of Dominant S	Snecies	
2 Ulmus crassifolia 10 No FAC 7	1							(A/B)
Total % Cover of: Multiply by:						Prevalence Index wo	rksheet	
A								v:
5			168	- FA	_			
Herb Stratum (Plot size: 5'								
Herb Stratum (Plot size: 5¹ 1 Nassella leucotricha 90 Yes NI UPL species x 5 =	5	65	- Tota	al Cover				
2. Solanum elaeagnifolium 15 No NI Column Totals:(A)(B) Prevalence Index = B/A =	Herb Stratum (Plot size: 5'		_ 10ta	ai Covei		FACU species	x 4 =	
3	1. Nassella leucotricha	90	Yes	NI		UPL species	x 5 =	
4.	2. Solanum elaeagnifolium	15	No	NI		Column Totals:	(A)	(B)
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 10	3					Prevalence Inde	v = R/Δ =	
5. 6. 7. 8. 9. 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 10. Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Hydrophytic Vegetation Yes No ✓ No ✓	4				·			
6. 7. 8. 9. 10. Woody Vine Stratum (Plot size: 30') 1. 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) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes No ✓	5					•		on
7. 8. 9. 10. Woody Vine Stratum (Plot size: 30' 1. 2. Bare Ground in Herb Stratum 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Yes No ✓	l .					•		
8. 9								
10 Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size: 30¹) 1 Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes No ✓						4 - Morphological	Adaptations ¹ (Provide	supporting
Moody Vine Stratum (Plot size: 30' 105 = Total Cover 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation							•	
Woody Vine Stratum (Plot size: 30¹) 1.	10		- Tota	ol Cover		Problematic Hydro	ophytic Vegetation¹ (E	xplain)
1 be present, unless disturbed or problematic. 2 Hydrophytic Vegetation Present? Yes No _✓	Woody Vine Stratum (Plot size: 30'		_ 10ta	ai Covei				
2 = Total Cover Hydrophytic Vegetation Present? Yes No _ ✓						be present, unless dis	turbed or problematic.	
% Bare Ground in Herb Stratum = Total Cover						Hydrophytic		
N bale Glound in Helb Gloudin		- 1	= Tota				es No.√	
Remarks:		-				Flescht: 1	es NO	_
	Remarks:							

Profile Desc	cription: (Descri	be to the depth n	eeded to docur	nent the in	dicator c	r confirm	the absence of inc	licators.)
Depth	Matrix			x Features	- 1	1 2	T	
(inches)	Color (moist)	% (Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
l			-					

¹Type: C=C	oncentration, D=F	Depletion, RM=Red	luced Matrix. CS	S=Covered	or Coated	 d Sand Gr	ains. ² Location	PL=Pore Lining, M=Matrix.
		licable to all LRR				a dana di		roblematic Hydric Soils ³ :
Histosol				Sleyed Matr				A9) (LRR I, J)
ı —	oipedon (A2)			Redox (S5)	IX (O+)			Redox (A16) (LRR F, G, H)
	stic (A3)			l Matrix (S6	١			e (S7) (LRR G)
_	en Sulfide (A4)			Mucky Mine	,		_	Depressions (F16)
	d Layers (A5) (LR	R F)		Sleyed Mati				outside of MLRA 72 & 73)
_	ick (A9) (LRR F, (d Matrix (F3	. ,		Reduced Ve	,
	d Below Dark Sur			Dark Surface	-		_	Material (TF2)
	ark Surface (A12)	, ,		d Dark Surf	, ,			v Dark Surface (TF12)
_	lucky Mineral (S1			Depressions			-	in in Remarks)
	,	, at (S2) (LRR G, H)		ins Depres	` ,	6)		frophytic vegetation and
	icky Peat or Peat		_	RA 72 & 73	,	•	-	ology must be present,
	,	(, (,	,			/		bed or problematic.
Restrictive I	Layer (if present):				-		
Type:								
							Hudrin Cail Dran	ent? Yes No ✓
	ches):		•				Hyuric 3011 Prese	ent? Yes No ✓
Remarks:								
HYDROLO	GY							
-	drology Indicato							
Primary India	cators (minimum o	of one required; ch	eck all that appl	y)			Secondary Ind	icators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			_	oil Cracks (B6)
High Wa	iter Table (A2)		Aquatic In	/ertebrates	(B13)		Sparsely \	/egetated Concave Surface (B8)
Saturation	on (A3)		Hydrogen	Sulfide Odo	or (C1)		Drainage I	Patterns (B10)
Water M	arks (B1)		Dry-Seaso	n Water Ta	ble (C2)		Oxidized F	Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits (B2)		Oxidized F	Rhizosphere	s on Livir	ng Roots ((C3) (where t	tilled)
	oosits (B3)			not tilled)				Surrows (C8)
	it or Crust (B4)		,	of Reduced	Iron (C4))		Visible on Aerial Imagery (C9)
	osits (B5)		_	Surface (C	, ,		_	nic Position (D2)
	on Visible on Aeri	al Imagery (R7)		lain in Rem				ral Test (D5)
	tained Leaves (B		01101 (2x)	idiii iii i toii	iaikoj			ve Hummocks (D7) (LRR F)
		′1						ve Hullillocks (DI) (LKK F)
Field Observ		V	/	- h V:				
Surface Water	er Present?	Yes No _						
Water Table	Present?	Yes No _						
Saturation Pr		Yes No _	Depth (included)	ches):		Wetla	and Hydrology Pres	sent? Yes No ✓
(includes cap	oillary fringe)		dea well sent t	hotos	daur- ?	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	if available.	
Describe Rec	corded Data (stre	am gauge, monitor	ing well, aerial j	motos, prev	vious insp	pections),	ıı avallable:	
Remarks:								

Project/Site: 130 Environmental Park		City/Cou	inty: Lockha	rt/Caldwell	Sampling Date: 06/18/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T3-DP9
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Floodplain					/e Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: Ts - Tinn soils, frequently flooded				NWI classific	
Are climatic / hydrologic conditions on the site typical for thi		or? Vos			
Are Vegetation, Soil, or Hydrology s					oresent? Yes ✓ No
				eeded, explain any answe	
Are Vegetation, Soil, or Hydrology r					•
SUMMARY OF FINDINGS – Attach site map	snowing	samp	ling point i	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ N	lo	19	s the Sampled	I Area	
Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N	lo <u>√</u>		vithin a Wetla		No <u>√</u>
Wetland Hydrology Present? Yes N	lo <u> </u>				
Remarks:					
FAC vegetation, not hydrophytic.					
VEGETATION – Use scientific names of plan	nts.				
	Absolute	Domin	ant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 30'			es? Status	Number of Dominant S	pecies
1. Ulmus crassifolia	30	Yes	FAC	That Are OBL, FACW,	or FAC
2. Celtis laevigata	- 10	No	FAC	(excluding FAC-):	<u>4</u> (A)
3. Prosopis glandulosa	40	Yes	FACU_	Total Number of Domin	^
4				Species Across All Stra	ata: 6 (B)
Sapling/Shrub Stratum (Plot size: 15')	80	= Total	Cover	Percent of Dominant S That Are OBL, FACW,	
1. Prosopis glandulosa	5	No	FACU	That Are OBL, PACVV,	OFFAC. (A/B)
2. Bumelia lanuginosa	5	No	NI	Prevalence Index wor	ksheet:
3. Ulmus crassifolia	50	Yes	FAC	Total % Cover of:	
4.					x 1 =
5					x 2 =
51	60	= Total	Cover		x 3 =
Herb Stratum (Plot size: 5' 1. Ambrosia trifida	50	Yes	FAC		x 4 =
2. Elymus virginicus	50	Yes	FAC		x 5 = (B)
3 Cylindropuntia leptocaulis	5	No	NI NI	Column rotals.	(A) (B)
				Prevalence Index	= B/A =
5				Hydrophytic Vegetation	on Indicators:
6				1	Hydrophytic Vegetation
7				✓ 2 - Dominance Tes	
8				3 - Prevalence Inde	
9.					Adaptations ¹ (Provide supporting s or on a separate sheet)
10					phytic Vegetation ¹ (Explain)
201	105	= Total	Cover		
Woody Vine Stratum (Plot size: 30') 1. Cissus trifoliata	20	Yes	FACU	'Indicators of hydric so be present, unless dist	il and wetland hydrology must urbed or problematic.
		165	TACO	· · · · · · · · · · · · · · · · · · ·	
2	20			Hydrophytic Vegetation	
% Bare Ground in Herb Stratum		= Total	Cover	Present? Ye	s No
Remarks:	-			1	

Profile Description: (Describe to the	depth needed to document the indicator or o	confirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %		Loc ² Texture Remarks
0-10 10 YR 3/1 100		Clay
¹ Type: C=Concentration, D=Depletion,	RM=Reduced Matrix, CS=Covered or Coated S	Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to	all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
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)
Depleted Below Dark Surface (A11		Red Parent Material (TF2)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
2.5 cm Mucky Peat or Peat (S2) (L	· · · · · · · · · · · · · · · · · · ·	Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and
5 cm Mucky Peat or Peat (S2) (LR		
	(unless disturbed or problematic.
Restrictive Layer (if present):		
Type: Clay pan		
Depth (inches): 10"		Hydric Soil Present? Yes No ✓
		Trydric doi: Tesent: Tes No
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
	udus du also als all the standards.	Opposition to the factority of the second
Primary Indicators (minimum of one rec		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 (C
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	
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 Imager	y (B7) Other (Explain in Remarks)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Frost-Heave Hummocks (D7) (LRR F)
Field Observations:		
	No ✓ Depth (inches):	
Water Table Present? Yes	No V Depth (inches):	
Saturation Present? Yes	No <u>√</u> Depth (inches):	Wetland Hydrology Present? Yes No ✓
(includes capillary fringe)		
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos, previous inspec	ctions), if available:
Remarks:		



Data Point 1 Mesquite Grassland Mosaic



Data Point 1 Mesquite Grassland Mosaic



Data Point 2 Mesquite Grassland Mosaic

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Data Point 2 Mesquite Grassland Mosaic



Data Point 3 Sumpweed Depressions



Data Point 3 Sumpweed Depressions



Data Point 4
Sumpweed Depressions



Data Point 5 Sumpweed Depressions



Data Point 5
Sumpweed Depressions

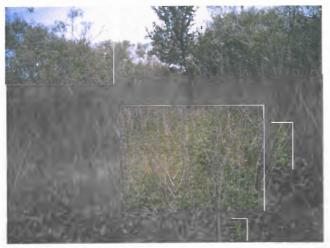
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Data Point 6 Sumpweed Depressions



Data Point 6 Sumpweed Depressions



Data Point 7 Sumpweed Depressions



Data Point 7 Sumpweed Depressions



Data Point 8 Mesquite Grassland Mosaic



Data Point 8 Mesquite Grassland Mosaic

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Data Point 9 Riparian Woods (Cedar Elm/Oak)



Data Point 9 Riparian Woods (Cedar Elm/Oak)

Project/Site: 130 Environmental Park		City/Count	y: Lockha	rt/Caldwell	_ Sampling Date: 06/18/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T4-DP1
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): None		Local relie	ef (concave, o	convex, none): None	Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: BuB - Burleson clay, 1 to 3 perce				NWI classifi	
Are climatic / hydrologic conditions on the site typical for thi		ar? Yes 1			
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? YesN	lo 🗸				
Hydric Soil Present? Yes N			he Sampled		/
Wetland Hydrology Present? Yes N	lo 🗸	wit	hin a Wetlar	nd? Yes	No <u> </u>
Remarks:				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
.,					
VEGETATION – Use scientific names of plan	ıts.				
Tree Stratum (Plot size: 30')	Absolute		nt Indicator	Dominance Test wor	
1. Prosopis glandulosa	50	Yes	? Status FACU	Number of Dominant S That Are OBL, FACW,	
2				(excluding FAC-):	0 (A)
3				Total Number of Domi	nant
4				Species Across All Str	
	50	= Total Co	over	Percent of Dominant S	Snaciae
Sapling/Shrub Stratum (Plot size: 15')				That Are OBL, FACW,	
1. Prosopis glandulosa	_ 75	Yes	FACU FACU	Prevalence Index wo	rksheet:
2			- —	I .	Multiply by:
3		-			x 1 =
4					x 2 =
5	75	= Total Co			x 3 =
Herb Stratum (Plot size: 5'		- Iolai Ci	Jvei	FACU species	x 4 =
1. Nassella leucotricha	80	Yes	NI	UPL species	x 5 =
2. Opuntia engelmannii	_ 10	No	NI		(A) (B)
3. Cylindropuntia leptocaulis	_ 10	No	NI	Prevalence Inde	x = B/A =
4. Ambrosia artemisiifolia	_ 5	No	FACU	Hydrophytic Vegetati	
5					Hydrophytic Vegetation
6				2 - Dominance Te	
7				3 - Prevalence Inc	
8.				4 - Morphological	Adaptations ¹ (Provide supporting
9					ks or on a separate sheet)
10	105	= Total Co		Problematic Hydro	ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30')				¹ Indicators of hydric so be present, unless dis	oil and wetland hydrology must turbed or problematic.
2.				Hydrophytic	
		= Total Co	over	Vegetation	
% Bare Ground in Herb Stratum				Present? Ye	es No <u> </u>
Remarks:					

Profile Desc	ription: (Describ	e to the depth n				or confirm	the absence of indicat	tors.)
Depth	Matrix			x Features	T 1	1.002	Tardina	Damada
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
				- —				
		epletion, RM=Rec				d Sand G		=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (App	licable to all LRR	ts, unless othe	rwise note	ed.)		Indicators for Probl	ematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleyed Mat	trix (S4)		1 cm Muck (A9)	(LRR I, J)
Histic Ep	ipedon (A2)			Redox (S5)				dox (A16) (LRR F, G, H)
Black His				d Matrix (S			Dark Surface (S)	
	n Sulfide (A4)			Mucky Min	, ,		High Plains Dep	
_	Layers (A5) (LRI			Gleyed Ma	, ,		•	ide of MLRA 72 & 73)
_	ck (A9) (LRR F, C			ed Matrix (F	,		Reduced Vertic (' '
	Below Dark Surf	ace (A11)	***************************************	Dark Surfa d Dark Su	, ,		Red Parent Mate	eriai (1F2) irk Surface (TF12)
	rk Surface (A12) ucky Mineral (S1)			Depressior)	Other (Explain in	, ,
		, at (S2) (LRR G, H)				16)	3Indicators of hydropl	
_	cky Peat or Peat			.RA 72 & 7				y must be present,
	on, - out or - out	(, (,	,			,	unless disturbed	•
Restrictive L	ayer (if present)	:	-				T	
	:hes):						Hydric Soil Present?	YesNo ✓
Remarks:					-	_		
Remarks.								
HYDROLO	GY							
Wetland Hyd	Irology Indicator	s:						
Primary Indic	ators (minimum o	f one required; ch	eck all that app	ly)			Secondary Indicate	ors (minimum of two required)
	Water (A1)		Salt Crust				Surface Soil C	Cracks (B6)
_	ter Table (A2)			vertebrate	s (B13)			etated Concave Surface (B8)
Saturatio			Hydrogen				Drainage Patt	
Water Ma				on Water T	. ,	,		ospheres on Living Roots (C3)
	t Deposits (B2)		Oxidized		, ,		_	
Drift Dep				not tilled)	00 011 =11	g . tooto	Crayfish Burro	,
	t or Crust (B4)		•	of Reduce	d Iron (C	4)		sible on Aerial Imagery (C9)
Iron Dep				Surface ('/	Geomorphic F	
	on Visible on Aeri	al Imagen/ (R7)	Other (Ex	•	,		FAC-Neutral 1	, ,
	ained Leaves (B9		00101 (EX	piaiii iii ito	marks)			Hummocks (D7) (LRR F)
		")						Tullinocks (D7) (ERRT)
Field Observ		V Mar.	/ D4- ()-					
Surface Water		Yes No _						
Water Table	Present?	Yes No _						
Saturation Pr		Yes No _	✓ Depth (ir	iches):		_ Wetl	and Hydrology Present	? Yes No <u>√</u>
(includes cap	niary tringe)	am gauge, monito	ring well serial	nhotos pre	evious ins	nections)	if available	- W
Describe Rec	orded Data (Stream	am gauge, monito	ang well, aelial	priotos, pre	O VIOUS III	pecuona),	ii avaliable.	
Domorko			-					
Remarks:								
								100

Project/Site: 130 Environmental Park		City/Coun	_{ty:} Lockha	rt/Caldwell	_ Sampling Date: 06/18/	2013
Applicant/Owner: 130 Environmental P					Sampling Point: T4-DP	
Investigator(s): Troegle, Josh & Littleto		Section, 7	— Гownship, Ra			
• , ,				-	Slope (%):	0-1
Subregion (LRR): J - Southwestern Pra						
Soil Map Unit Name: WgC - Wilson gravel				NWI classifi		
Are climatic / hydrologic conditions on the site		_				
Are Vegetation, Soil, or Hydro					present? Yes <u>√</u> No	
Are Vegetation, Soil, or Hydro				eeded, explain any answ		,
SUMMARY OF FINDINGS - Attac					•	s, etc.
Hydrophytic Vegetation Present? Y	es No <u> </u>	10	the Complet	I Avan		
Hydric Soil Present? Y	es No <u> </u>		the Sampled thin a Wetlar		No <u>√</u>	
Wetland Hydrology Present? Y	es No <u> </u>		tiiii a wetiai	163		
Remarks:						
VEGETATION – Use scientific nar		Danin		I Dominate Today		
Tree Stratum (Plot size: 30'	Absolute) % Cover		nt Indicator Status	Dominance Test wor Number of Dominant S		
1. Ulmus crassifolia	10	Yes	FAC	That Are OBL, FACW,	or FAC	
2. Celtis laevigata	10	Yes	FAC	(excluding FAC-):	3	(A)
3. Prosopis glandulosa	25	Yes	FACU	Total Number of Domi		
4				Species Across All Str	rata: <u>8</u>	(B)
151	45	= Total C	over	Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size: 15' 1. Ulmus crassifolia)	No	FAC	That Are OBL, FACW,	or FAC: 37.5	(A/B)
1. Otmus crassifolia 2. Prosopis glandulosa	50	Yes	FACU	Prevalence Index wo	rksheet:	
3. Celtis laevigata	5	No	FAC	Total % Cover of:	Multiply by:	_
4. Mahonia trifoliolata	15	No	NI	OBL species	x 1 =	_
5.				FACW species	x 2 =	
	80	= Total C	over		x 3 =	_
Herb Stratum (Plot size: 5')	-			x 4 =	_
1. Nassella leucotricha	80	Yes	NI NI	· —	x 5 =	_
2. Ambrosia artemisiifolia	40	Yes	FACU	Column Totals:	(A)	_ (B)
3. Rudbeckia hirta	5 5	No No	- FACU NI	Prevalence Inde	x = B/A =	
4. Opuntia engelmannii 5. Cylindropuntia leptocaulis		No	NI NI	Hydrophytic Vegetat		
				1 - Rapid Test for	Hydrophytic Vegetation	
6				2 - Dominance Te	st is >50%	
7				3 - Prevalence Inc	dex is ≤3.0 ¹	
8				4 - Morphological	Adaptations ¹ (Provide supp	porting
9 10.					ks or on a separate sheet)	\
	135	= Total C	over	Problematic Hydro	ophytic Vegetation ¹ (Explair	n)
)				oil and wetland hydrology m	nust
1. Smilax rotundifolia	10	Yes	FAC	pe present, unless dis	turbed or problematic.	
2. Rubus trivialis	5	Yes	FACU	Hydrophytic		
% Bare Ground in Herb Stratum <u>5</u>	15	_= Total C	Cover	Vegetation Present? Yes	es No_ <u>√</u>	
Remarks:			The state of the s			
, construction						
						٠

	-					or confirm	n the absence of in	ndicators.)
Depth	Matrix Color (moist)		Redo olor (moist)	x Feature %	Type ¹	Loc ²	Texture	Remarks
(inches)	Color (moist)		oloi (moist)			LUC		Remarks
			_					
						_		
¹ Type: C=C	oncentration, D=De	epletion, RM=Red	uced Matrix, C	S=Covered	d or Coate	d Sand G		n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appl	icable to all LRR	s, unless othe	rwise not	ed.)			Problematic Hydric Soils ³ :
Histoso	I (A1)			Gleyed Ma	. ,			(A9) (LRR I, J)
Histic E	pipedon (A2)			Redox (S5				rie Redox (A16) (LRR F, G, H)
_	listic (A3)			d Matrix (S				ce (S7) (LRR G)
	en Sulfide (A4)	. = \		Mucky Mir	. ,			Depressions (F16)
_	d Layers (A5) (LRF	•		Gleyed Ma			,	outside of MLRA 72 & 73)
_	uck (A9) (LRR F, G			ed Matrix (l Dark Surfa			Reduced V	rentic (F18) t Material (TF2)
· - ·	ed Below Dark Surface (A12)	200 (ATT)		ed Dark Surra	` '			ow Dark Surface (TF12)
	ark Surface (A12) Mucky Mineral (S1)			Depressio				lain in Remarks)
_ ′	Mucky Peat or Pea			-		16)		ydrophytic vegetation and
	ucky Peat or Peat (LRA 72 &		-		drology must be present,
_ 3 3111111		,,,	,				-	urbed or problematic.
Restrictive	Layer (if present)							
	nches):						Hydric Soil Pre	sent? Yes No ✓
Remarks:								
itemants.								
HYDROLO	GY							
Wetland Hy	drology Indicator	s:			_			
Primary Indi	icators (minimum o	f one required; che	eck all that app	oly)			Secondary In	ndicators (minimum of two required)
	Water (A1)		Salt Crus				Surface	Soil Cracks (B6)
	ater Table (A2)		_	nvertebrate	es (B13)		_	y Vegetated Concave Surface (B8)
	ion (A3)			Sulfide O				e Patterns (B10)
	Marks (B1)			on Water	. ,			d Rhizospheres on Living Roots (C3)
	ent Deposits (B2)		Oxidized		` '			e tilled)
	eposits (B3)			not tilled		5		Burrows (C8)
	at or Crust (B4)		•	of Reduce		4)		on Visible on Aerial Imagery (C9)
	posits (B5)		Thin Muc			-,		phic Position (D2)
_	tion Visible on Aeria	al Imagen/(R7)	Other (Ex		. ,			utral Test (D5)
			= = = = = = = = = = = = = = = = = =	verani ili At	Jiliui Koj			eave Hummocks (D7) (LRR F)
	Stained Leaves (B9	7					1105(-110	Saro Fidininono (D7) (Litt 1)
Field Obser		V N	/ Dente #	a a b a a V				
	ter Present?	Yes No _				- 1		
Water Table	Present?	Yes No _						
Saturation F		Yes No _	Depth (i	nches):		_ We	tland Hydrology Pr	esent? Yes No ✓
(includes ca	ipillary fringe) ecorded Data (strea	m dauge monito	ring well aeria	I photos n	revious ins	spections)	if available:	
Describe Re	scolucu Data (Sifea	an gauge, monto	my well, acid	, priotos, pi	OTIOGO III	, poolioi 13	, ataliable.	
Remarks:								

Project/Site: 130 Environmental Pa	ırk		City/Coun	_{ity:} Lockha	rt/Caldwell	_ Sampling Date:	06/18/2013
Applicant/Owner: 130 Environmenta					State: TX	· -	
Investigator(s): Troegle, Josh & Little						_	
Landform (hillslope, terrace, etc.): Floor						ve si	one (%): 2-4
Subregion (LRR): J - Southwestern							
Soil Map Unit Name: HmB - Heiden-W							Jili: 147 (D 00
•							
Are climatic / hydrologic conditions on the	-						•
Are Vegetation, Soil, or H					'Normal Circumstances"	present? Yes <u>✓</u>	No
Are Vegetation, Soil, or H	lydrology	_ naturally pro	blematic?	P (If n∈	eeded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Att	tach site ma	p showing	sampli	ing point l	ocations, transect	s, important f	eatures, etc.
Hydrophytic Vegetation Present?	Yes <u></u> ✓	No		4h - Camalad			
Hydric Soil Present?	Yes ✓			the Sampled thin a Wetlar		No <u>√</u>	
Wetland Hydrology Present?	Yes		W	umi a wenai	id! Yes	NO <u>*</u>	_
Remarks:							
VEGETATION – Use scientific	names of pla						
Tree Stratum (Plot size: 30')	Absolute % Cover		nt Indicator :? Status	Dominance Test work		
1. Quercus stellata	/	50	Yes	FACU	Number of Dominant S That Are OBL, FACW,	F	
2. Ulmus crassifolia		85	Yes	FAC	(excluding FAC-):	3	(A)
3. Celtis laevigata		10	No	FAC	Total Number of Domi	nant	
4.					Species Across All Str		(B)
		145	= Total C	over ·	Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size: 15')			T. 0	That Are OBL, FACW,		(A/B)
1. Ulmus crassifolia			Yes	FAC	Prevalence Index wo	rkshoot.	
2. Ailanthus altissima			No	FACU	Total % Cover of:		ılv bv
3					OBL species		
4					FACW species		
5		80			FAC species		
Herb Stratum (Plot size: 5')		= Total C	over	FACU species		
1. Digitaria haller		2	No	NI	UPL species		
2				V	Column Totals:	(A)	(B)
3.							
4						x = B/A =	
5					Hydrophytic Vegetati		4-4:
6					1 - Rapid Test for ✓ 2 - Dominance Te		tation
7					3 - Prevalence Inc		
8					4 - Morphological		vide supporting
9					data in Remark	ks or on a separate	e sheet)
10	<u>.</u> .				Problematic Hydro	ophytic Vegetation	¹ (Explain)
Woody Vine Stratum (Plot size: 30'	1	2	= Total C	Cover	¹ Indicators of hydric so	oil and wetland by	trology must
1 Smilax rotundifolia		20	Yes	FAC	be present, unless dist	lurbed or problema	atic.
2.					Hydrophytic		
		20	= Total C	Cover	Vegetation	,	
% Bare Ground in Herb Stratum 75			. 5.01 0		Present? Yo	es V No _	
Remarks:							

Profile Des	cription: (Describe	to the depth				or confir	m the absence of	indicators.)	
Depth	Matrix	%	Color (moist)	ox Feature	esType ¹	Loc ²	- Toytura	Domorko	
(inches)	Color (moist) 10 YR 4/1		Color (moist)	%	_ Type	_LOC	Texture Clay	Remarks	
0-5			10.1/2.0/0						
5-10	10 YR 4/1	75 1	10 YR 6/8	_ 5	<u>C</u>	M	Clay		
	10 YR 5/2	20							
¹Type: C=C	Concentration, D=Dep	oletion, RM=F	Reduced Matrix, C	S=Covere	ed or Coat	ed Sand (Grains. ² Location	on: PL=Pore Lining, M=Ma	trix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless oth	erwise no	ted.)		Indicators for	Problematic Hydric Soils	3:
Histoso	ol (A1)		Sandy	Gleyed M	latrix (S4)		1 cm Muc	k (A9) (LRR I, J)	
Histic E	pipedon (A2)			Redox (S	•			irie Redox (A16) (LRR F, G	i, H)
	listic (A3)			ed Matrix (ace (S7) (LRR G)	
_ · ·	en Sulfide (A4)	-\		Mucky M				ns Depressions (F16)	3\
1	ed Layers (A5) (LRR			Gleyed M			,	I outside of MLRA 72 & 7 Vertic (F18)	3)
	luck (A9) (LRR F, G, ed Below Dark Surfac		✓ Deplet Redox	ed Matrix Dark Sur			_	nt Material (TF2)	
	oark Surface (A12)	~ (511)		ed Dark S	, ,	')		low Dark Surface (TF12)	
_	Mucky Mineral (S1)			Depressi		,		plain in Remarks)	
	Mucky Peat or Peat	(S2) (LRR G,	H) High F	lains Dep	ressions (F16)	3Indicators of I	nydrophytic vegetation and	
5 cm M	lucky Peat or Peat (S	3) (LRR F)	(M	LRA 72 &	73 of LR	RH)	wetland hy	ydrology must be present,	
							unless dis	turbed or problematic.	
Restrictive	Layer (if present):								
Type:			_						
Depth (ir	nches):						Hydric Soil Pre	esent? Yes <u>√</u> No	
Remarks:									
HYDROLO	OGY								
	ydrology Indicators	:							
· · · · ·	icators (minimum of		check all that ap	olv)			Secondary	Indicators (minimum of two	required)
	e Water (A1)		Salt Crus				Surface	e Soil Cracks (B6)	
_	ater Table (A2)			nvertebrat	es (B13)			ly Vegetated Concave Surf	ace (B8)
Saturat				n Sulfide C	` '		- ·	ge Patterns (B10)	(,
_	Marks (B1)			son Water	, ,	2)		ed Rhizospheres on Living F	Roots (C3)
	ent Deposits (B2)		Oxidized		•	•		re tilled)	` '
_	eposits (B3)			not tilled				h Burrows (C8)	
	lat or Crust (B4)		Presence	of Reduc	ed Iron (C	(4)	Saturat	ion Visible on Aerial Image	ry (C9)
	eposits (B5)		_	k Surface	,			rphic Position (D2)	
_	tion Visible on Aerial	Imagery (B7)					FAC-Ne	eutral Test (D5)	
	Stained Leaves (B9)						Frost-H	leave Hummocks (D7) (LR	RF)
Field Obse	rvations:								1-7/0
Surface Wa	iter Present?	res N	o ✓ Depth (i	nches): _					
Water Table			o ✓ Depth (i						
Saturation F			o ✓ Depth (i				etland Hydrology P	resent? Yes N	∘ ✓
(includes ca	apillary fringe)								
Describe Re	ecorded Data (stream	n gauge, mor	ntoring well, aeria	ı photos, p	previous ir	spections	s), if available:		
Remarks:		a la det	comider Date	naint tal		n af aba-	ana!		
Adjacent to	o ephemeral strear	n in riparian	corndor. Data	point take	en outsid	e or chan	mei.		
									- Contractor

Project/Site: 130 Environmental Park	City/County: Lockhart/Caldwell Sampling Date: 06/18/2013						
Applicant/Owner: 130 Environmental Park, LLC		OKJ/ COURTY!					
Investigator(s): Troegle, Josh & Littleton, Brandy							
Landform (hillslope, terrace, etc.): None						Slope	(%): 0-1
Subregion (LRR): J - Southwestern Prairies							
Soil Map Unit Name: HmB - Heiden-Wilson complex,							
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		
SUMMARY OF FINDINGS – Attach site ma	p showing	san	nplin	g point l	ocations, transect	s, important fea	tures, etc.
Hydrophytic Vegetation Present? Yes	No ✓		la th	- Complet	I Aven		
Hydric Soil Present? Yes	No √			e Sampled in a Wetlar		No <u></u> ✓	
Wetland Hydrology Present? Yes	No ✓		WILLI	iii a vvetiai	nu: 165	No	
Remarks:							
VEGETATION – Use scientific names of pla	ants.						
	Absolute	Don	ninant	Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size: 30'	% Cover	Spe	cies?	Status	Number of Dominant S	Species	
1					That Are OBL, FACW	, or FAC 0	(4)
2					(excluding FAC-):	0	(A)
3					Total Number of Domi	0	
4					Species Across All Str	rata: <u>2</u>	(B)
Sapling/Shrub Stratum (Plot size: 15')			al Cov		Percent of Dominant S That Are OBL, FACW		(A/B)
1. Prosopis glandulosa	30	Yes		FACU	Prevalence Index wo	rkchoot:	
2. Ulmus crassifolia	5	No		FAC	Total % Cover of:		bur
3. Mahonia trifoliolata		No		NI	OBL species		
4					FACW species		
5					FAC species		
Herb Stratum (Plot size: 5')	40	= Tot	tal Cov	ver	FACU species		
Herb Stratum (Plot size: 5') 1. Monarda citriodora	90	Yes		NI	UPL species		
2. Aristida purpurea	20	No		NI	Column Totals:		
3					Coldini Fotalo.	(//)	(D)
					Prevalence Inde	x = B/A =	
4					Hydrophytic Vegetat	ion Indicators:	
6					1 - Rapid Test for	Hydrophytic Vegetati	ion
7					2 - Dominance Te		
8					3 - Prevalence Inc		
9					4 - Morphological	Adaptations ¹ (Provide	e supporting
10					Problematic Hydro	ks or on a separate sh	,
	110	= Tot	tal Co	ver	1		
Woody Vine Stratum (Plot size: 30'					¹ Indicators of hydric so be present, unless dis		
1.					H-drank-ti-	-	
2		= Tot	tal Co	ver	Hydrophytic Vegetation	No 4	
% Bare Ground in Herb Stratum					Present? Y	es No	
Remarks:							

1 - "		eeded to document the indicator or con	
Depth	Matrix	Redox Features	
(inches) Color	(moist) % (Color (moist) % Type ¹ Loc	c ² Texture Remarks
¹ Type: C=Concentratio	n, D=Depletion, RM=Rec	luced Matrix, CS=Covered or Coated Sar	nd Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators	: (Applicable to all LRR	s, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)		Sandy Gleyed Matrix (S4)	1 cm Muck (A9) (LRR I, J)
Histic Epipedon (A	2)	Sandy Redox (S5)	Coast Prairie Redox (A16) (LRR F, G, H)
Black Histic (A3)		Stripped Matrix (S6)	Dark Surface (S7) (LRR G)
Hydrogen Sulfide (Loamy Mucky Mineral (F1)	High Plains Depressions (F16)
Stratified Layers (A		Loamy Gleyed Matrix (F2)	(LRR H outside of MLRA 72 & 73)
1 cm Muck (A9) (LI Depleted Below Da		Depleted Matrix (F3) Redox Dark Surface (F6)	Reduced Vertic (F18) Red Parent Material (TF2)
Thick Dark Surface		Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12)
Sandy Mucky Mine	` '	Redox Depressions (F8)	Other (Explain in Remarks)
	t or Peat (S2) (LRR G, H)		³ Indicators of hydrophytic vegetation and
· —	or Peat (S3) (LRR F)	(MLRA 72 & 73 of LRR H)	wetland hydrology must be present,
			unless disturbed or problematic.
Restrictive Layer (if pr	resent):		
Туре:			
Depth (inches):			Hydric Soil Present? Yes No ✓
Remarks:			
HYDROLOGY			
Wetland Hydrology In	11 4		
Wedana Hydrology III	dicators:		
	dicators: imum of one required; ch	eck all that apply)	Secondary Indicators (minimum of two required)
Primary Indicators (min	imum of one required; ch		
Primary Indicators (min	imum of one required; ch	Salt Crust (B11)	Surface Soil Cracks (B6)
Primary Indicators (min Surface Water (A1) High Water Table (imum of one required; ch	Salt Crust (B11) Aquatic Invertebrates (B13)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Primary Indicators (minimum Surface Water (A1) High Water Table (Saturation (A3)	imum of one required; ch	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Surface Soil Cracks (B6)Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)
Primary Indicators (minimum Surface Water (A1) High Water Table (Comparison (A3) Water Marks (B1)	imum of one required; ch) A2)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)	 Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3)
Primary Indicators (minimum Surface Water (A1) High Water Table (Indicators Saturation (A3) Water Marks (B1) Sediment Deposits	imum of one required; ch) A2)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Ro	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) oots (C3) (where tilled)
Primary Indicators (minimum Surface Water (A1) High Water Table (Indicators (Maximum Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	imum of one required; ch) A2) (B2)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)	 Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (imum of one required; ch) A2) (B2)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Room (where not tilled) Presence of Reduced Iron (C4)	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)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (Iron Deposits (B5)	imum of one required; ch) A2) (B2) (B4)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Root (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7)	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) Geomorphic Position (D2)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5)	imum of one required; ch) A2) (B2) (B4) on Aerial Imagery (B7)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Room (where not tilled) Presence of Reduced Iron (C4)	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) Geomorphic Position (D2) FAC-Neutral Test (D5)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible (Water-Stained Lear	imum of one required; ch) A2) (B2) (B4) on Aerial Imagery (B7)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Root (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7)	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) Geomorphic Position (D2)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible (Water-Stained Lear	imum of one required; ch) A2) (B2) (B4) on Aerial Imagery (B7) ves (B9)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Root (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	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) Geomorphic Position (D2) FAC-Neutral Test (D5)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible (Water-Stained Lear Field Observations: Surface Water Present	imum of one required; ch) (B2) (B4) on Aerial Imagery (B7) ves (B9) ? Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Rowald (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	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) Geomorphic Position (D2) FAC-Neutral Test (D5)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible (Water-Stained Lear Field Observations: Surface Water Present?	imum of one required; ch) (B2) (B4) on Aerial Imagery (B7) ves (B9) ? Yes No _ Yes No _	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Root (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks) / Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) oots (C3)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible (Water-Stained Lear Field Observations: Surface Water Present? Saturation Present?	imum of one required; ch) (B2) (B4) on Aerial Imagery (B7) ves (B9) ? Yes No Yes No Yes No	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Root (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks) / Depth (inches):	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) Geomorphic Position (D2) FAC-Neutral Test (D5)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible (Water-Stained Lear Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringer	imum of one required; ch) (B2) (B4) on Aerial Imagery (B7) ves (B9) ? Yes No Yes No 3)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Root (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks) / Depth (inches):	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) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible (Water-Stained Lear Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringer	imum of one required; ch) (B2) (B4) on Aerial Imagery (B7) ves (B9) ? Yes No Yes No 3)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Ro (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	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) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible (Water-Stained Lear Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringer	imum of one required; ch) (B2) (B4) on Aerial Imagery (B7) ves (B9) ? Yes No Yes No 3)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Ro (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	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) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible (Iron Water-Stained Lear) Water Table Present? Saturation Present? Saturation Present? (includes capillary fringed Describe Recorded Date	imum of one required; ch) (B2) (B4) on Aerial Imagery (B7) ves (B9) ? Yes No Yes No 3)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Ro (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) oots (C3)
Primary Indicators (min Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible (Water-Stained Lear Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed Describe Recorded Date	imum of one required; ch) (B2) (B4) on Aerial Imagery (B7) ves (B9) ? Yes No Yes No 3)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Ro (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) oots (C3)

Project/Site: 130 Environmental Park	,	City/County	_{v:} Lockha	rt/Caldwell	Sampling Date: 06/18/2013
					Sampling Point: T4-DP5
Investigator(s): Troegle, Josh & Littleton, Brandyn Section, Township, Range: NA					
Landform (hillslope, terrace, etc.): Hillslope					Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to					
Are climatic / hydrologic conditions on the site typical for thi					
Are Vegetation, Soil, or Hydrologys					resent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answer	
			•		•
SUMMARY OF FINDINGS – Attach site map	Showing	Sampin	ig point i	ocations, transects	, important reatures, etc.
Hydrophytic Vegetation Present? Yes N	lo 🗸	ls ti	he Sampled	Area	
Hydric Soil Present? Yes N	lo <u>√</u>		hin a Wetlar		No <u>√</u>
Wetland Hydrology Present? YesN	lo <u>V</u>				
Remarks:					
VEGETATION – Use scientific names of plan	ıts.				
	Absolute	Dominan	t Indicator	Dominance Test works	sheet:
Tree Stratum (Plot size: 30'		Species?	Status	Number of Dominant Sp	pecies
1. Celtis laevigata	10	Yes	FAC	That Are OBL, FACW, o	4
2. Prosopis glandulosa		Yes	FACU	(excluding FAC-):	<u>1</u> (A)
3				Total Number of Domina	_
4		-		Species Across All Strat	ta: <u>5</u> (B)
Sapling/Shrub Stratum (Plot size: 15'	20	= Total Co	over	Percent of Dominant Sp	
1. Prosopis glandulosa	40	Yes	FACU	That Are OBL, FACW, o	or FAC: 20 (A/B)
2. Juniperus virginiana	5	No	UPL	Prevalence Index work	(sheet:
3.				1	- Multiply by:
4.					x 1 =
5.				l .	x 2 =
-	45	= Total Co	ver		x 3 =
Herb Stratum (Plot size: 5'	1.5		277		x 4 =
1. Opuntia engelmannii	15	No	NI NI	UPL species	x 5 =
2. Nassella leucotricha 3. Monarda citriodora	80	Yes Yes	NI NI	Column Totals:	(A) (B)
	-	_		Prevalence Index	= B/A =
4				Hydrophytic Vegetatio	n Indicators:
5.				1 - Rapid Test for H	lydrophytic Vegetation
6				2 - Dominance Test	
7				3 - Prevalence Inde	x is ≤3.0 ¹
9				4 - Morphological A	daptations ¹ (Provide supporting
10.					or on a separate sheet)
	125	= Total Co	ver	Problematic rivorop	ohytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30'				¹ Indicators of hydric soil be present, unless distu	and wetland hydrology must
1				be present, unless distu	rbed of problematic.
2				Hydrophytic	
% Bare Ground in Herb Stratum 10		= Total Co	over	Vegetation Yes	s No <u>√</u>
Remarks:			***	<u> </u>	

	x	Redox Fe	atures			
(inches) Color (moist)			% Type ¹	Loc ²	Texture	Remarks
					-	
						-
					2	
Type: C=Concentration, D=I				Sand Gra		PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (App	olicable to all LRRs					blematic Hydric Soils ³ :
Histosol (A1)			d Matrix (S4)		1 cm Muck (A9	
Histic Epipedon (A2)		Sandy Redo				Redox (A16) (LRR F, G, H)
Black Histic (A3)		Stripped Mat			Dark Surface (
Hydrogen Sulfide (A4)			y Mineral (F1)		High Plains De	
Stratified Layers (A5) (LR			ed Matrix (F2)		•	side of MLRA 72 & 73)
1 cm Muck (A9) (LRR F,		Depleted Ma			Reduced Verti	• ,
Depleted Below Dark Sur		Redox Dark			Red Parent Ma	, ,
Thick Dark Surface (A12)			rk Surface (F7)			Dark Surface (TF12)
Sandy Mucky Mineral (S1		Redox Depre			Other (Explain	•
2.5 cm Mucky Peat or Pe		High Plains I				phytic vegetation and
5 cm Mucky Peat or Peat	(S3) (LRR F)	(MLRA 7	2 & 73 of LRR I	H)		ogy must be present,
					uniess disturbe	ed or problematic.
Restrictive Layer (if present):					
Type:						,
D 41- // 1 \					Hudrig Call Brosses	t? Yes No_ <u>√</u>
Depth (inches):					nyuric son Presen	
Remarks:					nyuric son Presen	
					nyaric son Presen	
					nyuric son Presen	
		-			nyanc son Presen	
					nyanc son Presen	
Remarks:					nyanc son Presen	
Remarks: YDROLOGY Wetland Hydrology Indicato	rs:	ck all that apply)				ators (minimum of two required
Primary Indicators (minimum	rs:)		Secondary Indic	ators (minimum of two required
YDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum of Surface Water (A1)	rs:	Salt Crust (B11	•		Secondary Indic	ators (minimum of two required
YDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum Surface Water (A1) High Water Table (A2)	rs:	Salt Crust (B11 Aquatic Inverte	brates (B13)		Secondary Indic Surface Soil Sparsely Ve	ators (minimum of two required Cracks (B6) getated Concave Surface (B8)
YDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	rs:	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi	brates (B13) de Odor (C1)		Secondary Indic Surface Soil Sparsely Ve Drainage Pa	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) htterns (B10)
YDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum of the content	rs:	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W	brates (B13) de Odor (C1) ater Table (C2)		Secondary Indic Surface Soii Sparsely Ve Drainage Pa Oxidized Rh	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C
YDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	rs:	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W	brates (B13) de Odor (C1)	ng Roots (0	Secondary Indic Surface Soii Sparsely Ve Drainage Pa Oxidized Rh	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C
YDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum of the content	rs:	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir	ng Roots (C	Secondary Indic Surface Soil Sparsely Ve Drainage Pa Oxidized Rh (where til Crayfish Bu	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C led) rrows (C8)
YDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum of the content	rs:	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhize (where not t	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir		Secondary Indic Surface Soil Sparsely Ve Drainage Pa Oxidized Rh (where til Crayfish Bu	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C
Primary Indicators (minimum of the state of	rs:	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhize (where not t	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) aduced Iron (C4)		Secondary Indic Surface Soil Sparsely Ve Drainage Pa Oxidized Rh (where til Cayfish Bur Saturation V	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C led) rrows (C8)
Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ors: of one required; che	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhizo (where not t Presence of Re	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) educed Iron (C4) face (C7)		Secondary Indic Surface Soil Sparsely Ve Drainage Pa Oxidized Rh (where til Cayfish Bur Saturation V	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C led) rrows (C8) fisible on Aerial Imagery (C9)
Primary Indicators (minimum of the state of	ors: of one required; che	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhizo (where not t Presence of Re Thin Muck Sur	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) educed Iron (C4) face (C7)		Secondary Indic Surface Soii Sparsely Ve Drainage Pa Oxidized Rh (where til Crayfish Bui Saturation V Geomorphic FAC-Neutra	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C led) rrows (C8) fisible on Aerial Imagery (C9)
Primary Indicators (minimum - 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 Aer Water-Stained Leaves (B	ors: of one required; che	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhizo (where not t Presence of Re Thin Muck Sur	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) educed Iron (C4) face (C7)		Secondary Indic Surface Soii Sparsely Ve Drainage Pa Oxidized Rh (where til Crayfish Bui Saturation V Geomorphic FAC-Neutra	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C led) rrows (C8) disible on Aerial Imagery (C9) is Position (D2)
Primary Indicators (minimum of 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 Aer Water-Stained Leaves (BField Observations:	ors: of one required; che	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhizo (where not t Presence of Re Thin Muck Surf Other (Explain	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) aduced Iron (C4) face (C7) in Remarks)		Secondary Indic Surface Soii Sparsely Ve Drainage Pa Oxidized Rh (where til Crayfish Bui Saturation V Geomorphic FAC-Neutra	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C led) rrows (C8) disible on Aerial Imagery (C9) is Position (D2)
Primary Indicators (minimum 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 Aer Water-Stained Leaves (B	ors: of one required; checking the second se	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhizo (where not t Presence of Re Thin Muck Surl Other (Explain	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) aduced Iron (C4) face (C7) in Remarks)	_	Secondary Indic Surface Soii Sparsely Ve Drainage Pa Oxidized Rh (where til Crayfish Bui Saturation V Geomorphic FAC-Neutra	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C led) rrows (C8) disible on Aerial Imagery (C9) is Position (D2)
Proposits (B4) Iron Deposits (B5) Inundation Visible on Aer Water Table (Proposits (B5) Inundation Visible on Aer Water Cable (B6) Water Marks (B6) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aer Water-Stained Leaves (B6) Water Table Present?	ors: of one required; check ial Imagery (B7) 9) Yes No ✓ Yes No _✓	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhizo (where not t Presence of Re Thin Muck Suri Other (Explain Depth (inches	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) aduced Iron (C4) face (C7) in Remarks)	-	Secondary Indic Surface Soil Sparsely Ve Drainage Pa Oxidized Rh (where til Crayfish Bui Saturation V Geomorphic FAC-Neutra	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C led) rrows (C8) /isible on Aerial Imagery (C9) is Position (D2) I Test (D5) is Hummocks (D7) (LRR F)
Proposits (B4) Iron Deposits (B5) Inundation Visible on Aer Water Table (Proposits (B5) Inundation Visible on Aer Water Table (B5) Water Marks (B6) Water Marks (B6) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aer Water-Stained Leaves (B6) Water Marks (B6) Surface Water Present? Water Table Present?	ors: of one required; check ial Imagery (B7) 9) Yes No ✓ Yes No _✓	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhizo (where not t Presence of Re Thin Muck Surl Other (Explain	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) aduced Iron (C4) face (C7) in Remarks)	-	Secondary Indic Surface Soii Sparsely Ve Drainage Pa Oxidized Rh (where til Crayfish Bui Saturation V Geomorphic FAC-Neutra	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C led) rrows (C8) disible on Aerial Imagery (C9) is Position (D2) I Test (D5) e Hummocks (D7) (LRR F)
Primary Indicators (minimum of 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 Aer Water-Stained Leaves (B5) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present?	ors: of one required; checking of one requir	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhizo (where not t Presence of Re Thin Muck Suri Other (Explain Depth (inches Depth (inches	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) aduced Iron (C4) face (C7) in Remarks)	- Wetlan	Secondary Indic Surface Soil Sparsely Ve Drainage Pa Oxidized Rh Cayfish But Crayfish But Saturation Ve Geomorphic FAC-Neutra Frost-Heave	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (C led) rrows (C8) /isible on Aerial Imagery (C9) is Position (D2) I Test (D5) is Hummocks (D7) (LRR F)
Proposits (B4) Iron Deposits (B5) Inundation Visible on Aer Water Table (Proposits (B5) Inundation Visible on Aer Water Table (B5) Water Marks (B6) Water Marks (B6) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aer Water-Stained Leaves (B6) Water Marks (B6) Surface Water Present? Water Table Present?	ors: of one required; checking of one requir	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhizo (where not t Presence of Re Thin Muck Suri Other (Explain Depth (inches Depth (inches	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) aduced Iron (C4) face (C7) in Remarks)	- Wetlan	Secondary Indic Surface Soil Sparsely Ve Drainage Pa Oxidized Rh Cayfish But Crayfish But Saturation Ve Geomorphic FAC-Neutra Frost-Heave	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (Caled) rrows (C8) disible on Aerial Imagery (C9) is Position (D2) I Test (D5) is Hummocks (D7) (LRR F)
Proposits (B4) Iron Deposits (B5) Inundation Visible on Aer Water Table Present? Water Table Present? 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 Aer Water-Stained Leaves (B5) Water Table Present? Water Table Present? Saturation Present? Security Algal Mat (Streen Color of the Col	ors: of one required; checking of one requir	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhizo (where not t Presence of Re Thin Muck Suri Other (Explain Depth (inches Depth (inches	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) aduced Iron (C4) face (C7) in Remarks)	- Wetlan	Secondary Indic Surface Soil Sparsely Ve Drainage Pa Oxidized Rh Cayfish But Crayfish But Saturation Ve Geomorphic FAC-Neutra Frost-Heave	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (Caled) rrows (C8) disible on Aerial Imagery (C9) is Position (D2) I Test (D5) is Hummocks (D7) (LRR F)
Primary Indicators (minimum of 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 Aer Water-Stained Leaves (B5) Field Observations: Surface Water Present? Water Table Present? Saturation Present?	ors: of one required; checking of one requir	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhizo (where not t Presence of Re Thin Muck Suri Other (Explain Depth (inches Depth (inches	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) aduced Iron (C4) face (C7) in Remarks)	- Wetlan	Secondary Indic Surface Soil Sparsely Ve Drainage Pa Oxidized Rh Cayfish But Crayfish But Saturation Ve Geomorphic FAC-Neutra Frost-Heave	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (Caled) rrows (C8) disible on Aerial Imagery (C9) is Position (D2) I Test (D5) is Hummocks (D7) (LRR F)
Proposits (B5) Inundation Visible on Aer Water Table (Derivation Visible on Aer Water Table (Proposits (B5) Water Marks (B1) Sediment Deposits (B4) Iron Deposits (B5) Inundation Visible on Aer Water-Stained Leaves (B6) Water Table Present? Water Table Present? Water Table Present? Water Table Recorded Data (street	ors: of one required; checking of one requir	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season W Oxidized Rhizo (where not t Presence of Re Thin Muck Suri Other (Explain Depth (inches Depth (inches	brates (B13) de Odor (C1) ater Table (C2) spheres on Livir illed) aduced Iron (C4) face (C7) in Remarks)	- Wetlan	Secondary Indic Surface Soil Sparsely Ve Drainage Pa Oxidized Rh Cayfish But Crayfish But Saturation Ve Geomorphic FAC-Neutra Frost-Heave	ators (minimum of two required Cracks (B6) getated Concave Surface (B8) atterns (B10) izospheres on Living Roots (Caled) rrows (C8) disible on Aerial Imagery (C9) is Position (D2) I Test (D5) is Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		City/Cou	_{ınty:} Lockha	rt/Caldwell	Sampling Date: 06/18/2013
Applicant/Owner: 130 Environmental Park, LLC					_ Sampling Point: T4-DP6
Investigator(s): Troegle, Josh & Littleton, Brand					
Landform (hillslope, terrace, etc.): Floodplain		Local re	elief (concave,	convex, none): Conca	slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies			•		
Soil Map Unit Name: Ts - Tinn soils, frequently flood				NWI classif	
Are climatic / hydrologic conditions on the site typical for	r this time of yea	ar? Yes	. ✓ No _	(If no, explain in	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	eeded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	ap showing	samp	ling point l	ocations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes	No. ✓				
Hydric Soil Present? Yes			s the Sampleo		No <u>√</u>
Wetland Hydrology Present? Yes		within a Wetlan		na? res	NO <u>*</u>
Remarks:					
VEGETATION – Use scientific names of p	lants.				
Tree Stratum (Plot size: 30')	Absolute		ant Indicator	Dominance Test wo	rksheet:
1. Ulmus crassifolia	20	Yes	Status FAC	Number of Dominant	
2. Prosopis glandulosa	$\frac{20}{30}$	Yes	FACU	That Are OBL, FACW (excluding FAC-):	2 (A)
3. Celtis laevigata	10	No	FAC	Total Number of Dom	inant
4.				Species Across All St	_
	60	= Total	Cover	Percent of Dominant	Snecies
Sapling/Shrub Stratum (Plot size: 15'				That Are OBL, FACW	
1. Celtis laevigata		Yes	FAC	Prevalence Index wo	orksheet:
2					: Multiply by:
3				1	x 1 =
4.					x 2 =
5	20	= Total	Cover	FAC species	x 3 =
Herb Stratum (Plot size: 5'		Total	00101	FACU species	x 4 =
1. Nassella leucotricha	40	Yes	NI	UPL species	x 5 =
2. Croton monanthogynus		Yes	NI NI	Column Totals:	(A) (B)
3				Prevalence Inde	ex = B/A =
4				Hydrophytic Vegeta	
5				1	r Hydrophytic Vegetation
6.				2 - Dominance To	est is >50%
7				3 - Prevalence In	dex is ≤3.0 ¹
8				4 - Morphological	Adaptations ¹ (Provide supporting
9					rks or on a separate sheet)
10.		= Total	Cover	Problematic Hydr	rophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30') 1					oil and wetland hydrology must sturbed or problematic.
2.				Hydrophytic	
		= Total	Cover	Vegetation	
% Bare Ground in Herb Stratum 40				Present? Y	′es No <u>√</u>
Remarks:				*	

	cription: (Describ					or confirm	n the absence of	indicators.)
Depth (inches)	Matrix Color (moist)		Redo: olor (moist)	x Feature: %	Type ¹	Loc ²	Texture	Remarks
(inches) 0-10	10 YR 2/1	100	OIOI (IIIOISI)		_ i ype	_LUC	Clay	Remarks
0-10	10 11 2/1						Olay	
-								
¹ Type: C=C	oncentration, D=D	epletion, RM=Redu	uced Matrix, CS	=Covered	d or Coate	ed Sand G	rains. ² Location	on: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appl	icable to all LRRs	s, unless other	wise not	ed.)		Indicators for	Problematic Hydric Soils ³ :
Histoso	I (A1)		Sandy C	Sleyed Ma	atrix (S4)		1 cm Muc	k (A9) (LRR I, J)
Histic E	pipedon (A2)			Redox (S5				irie Redox (A16) (LRR F, G, H)
	istic (A3)			Matrix (S	•			ace (S7) (LRR G)
	en Sulfide (A4)	. = \			neral (F1)			ns Depressions (F16)
_	d Layers (A5) (LRF	•		Gleyed Ma d Matrix (l				Houtside of MLRA 72 & 73) Vertic (F18)
_	uck (A9) (LRR F, G d Below Dark Surfa	-		o Matrix (i Dark Surfa				nt Material (TF2)
	ark Surface (A12)	200 (////)			ırface (F7))		low Dark Surface (TF12)
	Mucky Mineral (S1)			Depressio	, ,	•	Other (Ex	plain in Remarks)
	Mucky Peat or Pea		High Pla	ains Depre	essions (F	16)	3Indicators of h	hydrophytic vegetation and
5 cm M	ucky Peat or Peat	(S3) (LRR F)	(ML	RA 72 &	73 of LRF	RH)		ydrology must be present,
							unless dis	sturbed or problematic.
	Layer (if present)	:						
Type: Cl								
Depth (in	ches): Ten						Hydric Soil Pro	esent? Yes No ✓
Remarks:								
HYDROLO	GY							
	drology Indicator	s:						
-	cators (minimum o		eck all that appl	v)			Secondary	Indicators (minimum of two required)
	Water (A1)	1 0110 104011041 0110	Salt Crust					e Soil Cracks (B6)
	ater Table (A2)		Aquatic In	' '	es (B13)			ly Vegetated Concave Surface (B8)
	on (A3)		Hydrogen					ge Patterns (B10)
	/larks (B1)		Dry-Seaso		. ,)		ed Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		Oxidized F					re tilled)
	posits (B3)			not tilled)		Ü	. ,	h Burrows (C8)
	at or Crust (B4)		Presence	of Reduce	ed Iron (C	4)		tion Visible on Aerial Imagery (C9)
	posits (B5)		Thin Muck	Surface	(C7)		✓ Geomo	orphic Position (D2)
	ion Visible on Aeria	al Imagery (B7)	Other (Exp	olain in Re	emarks)		FAC-Ne	eutral Test (D5)
	Stained Leaves (B9						Frost-H	leave Hummocks (D7) (LRR F)
Field Obser	vations:							
Surface Wat	ter Present?	Yes No <u>*</u>	Depth (in	ches):				
Water Table		Yes No _				1		
Saturation F		Yes No _				3	land Hydrology P	resent? Yes No ✓
(includes ca	pillary fringe)							
Describe Re	ecorded Data (stream	am gauge, monitor	ing well, aerial	photos, pr	revious ins	spections)	, if available:	
				W. W. W. W.				
Remarks:								
			-					

Project/Site: 130 Environmental Park		City/County:	Lockha	hart/Caldwell Sampling Date: 06/18/2013			
Applicant/Owner: 130 Environmental Park				State: TX			
Investigator(s): Troegle, Josh & Littleton,							
Landform (hillslope, terrace, etc.): Depression					ve Slope (9	%); 0-1	
Subregion (LRR): J - Southwestern Prairie							
Soil Map Unit Name: HoC2 - Houston Black					_		
Are climatic / hydrologic conditions on the site ty							
Are Vegetation, Soil, or Hydrolog				"Normal Circumstances"		No	
Are Vegetation, Soil, or Hydrolog				eeded, explain any answ			
SUMMARY OF FINDINGS – Attach					,	res, etc.	
Hydrophytic Vegetation Present? Yes	✓ No	Is the	e Sampled	I Area			
	✓ No	with	in a Wetla	nd? Yes <u>√</u>	No		
Wetland Hydrology Present? Yes Remarks:	✓ No						
VEGETATION – Use scientific name	es of plants.						
30'	Absolute			Dominance Test wor	ksheet:		
Tree Stratum (Plot size: 30'		Species?	Status	Number of Dominant S			
1				That Are OBL, FACW, (excluding FAC-):	2	_ (A)	
3				Total Number of Domi	nant		
4				Species Across All Str	^	(B)	
		= Total Cov	er	Percent of Dominant S	Species		
)	37	FACIL	That Are OBL, FACW,		(A/B)	
1. Prosopis glandulosa	40	Yes No	FACU	Prevalence Index wo	rksheet:		
2. Ulmus crassifolia 3. Juniperus virginiana		No	UPL	Total % Cover of:	Multiply by:		
4.				OBL species	x 1 =		
5.				FACW species	x 2 =		
	50	= Total Cov	er		x 3 =	_	
Herb Stratum (Plot size: 5')		**	F. C		x 4 =	_	
1. <u>Iva annua</u> 2. Eleocharis palustris	50	Yes Yes	FAC OBL	UPL species			
2. Eleocharis patastris 3. Carex brevior	10	No No	FAC	Column Totals:	(A)	(B)	
				Prevalence Inde	x = B/A =		
4 5				Hydrophytic Vegetat	ion Indicators:		
6				1	Hydrophytic Vegetation	1	
7				✓ 2 - Dominance Te			
8				3 - Prevalence Inc			
9					Adaptations ¹ (Provide s		
10					ophytic Vegetation ¹ (Ex	,	
Woody Vine Stratum (Plot size: 30')	= Total Cov		1.	oil and wetland hydrolog		
12				Hydrophytic Vegetation Present? You	es_✓ No		
Remarks: Sapling/shrub at edge of depression.				1			

Depth Matrix Redox Features								of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-5	10 YR 2/1	90	5 YR 6/8	10	С	M/PL	Clay	
			M=Reduced Matrix, C			d Sand G		cation: PL=Pore Lining, M=Matrix.
•		cable to al	I LRRs, unless other					for Problematic Hydric Soils ³ :
_ Histosol	• •			Gleyed Ma	, ,			Muck (A9) (LRR I, J)
	pipedon (A2)			Redox (S5	,			Prairie Redox (A16) (LRR F, G, H)
_	istic (A3) en Sulfide (A4)			ed Matrix (\$ Mucky Mir	,			Surface (S7) (LRR G) Plains Depressions (F16)
	d Layers (A5) (LRR	F)		Gleyed M				RR H outside of MLRA 72 & 73)
	ick (A9) (LRR F, G			ed Matrix (eed Vertic (F18)
_	d Below Dark Surfa	,		Dark Surfa				arent Material (TF2)
	ark Surface (A12)	,		ed Dark Si	, ,)	_	Shallow Dark Surface (TF12)
 Sandy N	Mucky Mineral (S1)		Redox	Depressio	ns (F8)			(Explain in Remarks)
2.5 cm N	Mucky Peat or Peat	(S2) (LRR	G, H) High P	lains Depr	essions (F	16)	3Indicators	of hydrophytic vegetation and
_ 5 cm Mu	icky Peat or Peat (83) (LRR F) (M	LRA 72 &	73 of LRF	(H)	wetlan	d hydrology must be present,
			9				unless	disturbed or problematic.
estrictive	Layer (if present):							
	LEI-							
Type: Co								
Type: Co	ches): Five						Hydric Soil	Present? Yes ✓ No
Type: Co							Hydric Soil	Present? Yes <u>✓</u> No
Type: Co Depth (ind Remarks:	ches): Five						Hydric Soil	Present? Yes <u>√</u> No
Type: Co Depth (inc emarks:	ches): Five	:					Hydric Soil	Present? Yes <u>✓</u> No
Type: Co Depth (inc emarks: /DROLO	GY drology Indicators		ed; check all that app	oly)				Present? Yes ✓ No
Type: Co Depth (inc emarks: 'DROLO 'etland Hyd nimary India	GY drology Indicators		ed; check all that app				Seconda	
Type: Co Depth (inc emarks: 'DROLO 'etland Hyenimary Indic _ Surface	GY drology Indicators		Salt Crus		es (B13)		Seconda Suri	ary Indicators (minimum of two require
Type: Co Depth (inc emarks: 'DROLO 'etland Hyc nimary Indic Surface	GY drology Indicators cators (minimum of Water (A1) ater Table (A2)		Salt Crus	t (B11)	` '		Second: Surl	ary Indicators (minimum of two require face Soil Cracks (B6)
Type: Co Depth (inc emarks: 'DROLO 'etland Hydrimary Indic Surface High Wa Saturatio	GY drology Indicators cators (minimum of Water (A1) ater Table (A2)		Salt Crus Aquatic li Hydroger	t (B11) nvertebrate	dor (C1)		Seconda Surl Spa Dra	ary Indicators (minimum of two require face Soil Cracks (B6) arsely Vegetated Concave Surface (B8 inage Patterns (B10)
Type: Co Depth (inc emarks: /DROLO /etland Hydenmary Indic _ Surface _ High Wa _ Saturatic _ Water M	GY drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1)		Salt Crus Aquatic li Hydroger	et (B11) nvertebrate n Sulfide O son Water T	dor (C1) Table (C2)		Second: Suri Spa Dra Oxid	ary Indicators (minimum of two require face Soil Cracks (B6) arsely Vegetated Concave Surface (B8 inage Patterns (B10)
Type: Co Depth (independent of the color of	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)		Salt Crus Aquatic li Hydroger Dry-Seas Oxidized	et (B11) nvertebrate n Sulfide O son Water T	dor (C1) Table (C2) eres on Liv		Second: Surl Spa Dra Oxio (C3)	ary Indicators (minimum of two require face Soil Cracks (B6) irsely Vegetated Concave Surface (B8 inage Patterns (B10) dized Rhizospheres on Living Roots (C
Type: Co Depth (ind Remarks: POROLO Vetland Hyunimary India Surface High Wa Saturatia Water M Sedimer Drift Dep	GY drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2)		Salt Crus Aquatic li Hydroger Dry-Seas ✓ Oxidized (where	it (B11) nvertebrate n Sulfide O on Water T Rhizosphe	dor (C1) Table (C2) eres on Liv	ing Roots	Second: Suri Spa Dra Oxio (C3) (w	ary Indicators (minimum of two require face Soil Cracks (B6) arsely Vegetated Concave Surface (B8 inage Patterns (B10) dized Rhizospheres on Living Roots (C where tilled) yfish Burrows (C8)
Type: Co Depth (ind Remarks: POROLO Vetland Hydrimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3)		Salt Crus Aquatic li Hydroger Dry-Seas Oxidized	it (B11) nvertebrate n Sulfide O son Water T Rhizosphe not tilled)	dor (C1) Table (C2) Pres on Live Heres on (C4)	ing Roots	Seconda Surd Spa Dra Oxid (C3) (w Cra ✓ Satu	ary Indicators (minimum of two require face Soil Cracks (B6) arsely Vegetated Concave Surface (B8 inage Patterns (B10) dized Rhizospheres on Living Roots (C
Type: Co Depth (inc demarks: //DROLO /etland Hydrimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4)	one require	Salt Crus Aquatic li Hydroger Dry-Seas ✓ Oxidized	ot (B11) Invertebrate In Sulfide Of Son Water This Rhizosphe In not tilled)	dor (C1) Fable (C2) Fres on Liv Hed Iron (C4 (C7)	ing Roots	Seconda Suri Spa Dra Oxic (C3) (M Cra ✓ Satt ✓ Geo	ary Indicators (minimum of two require face Soil Cracks (B6) ursely Vegetated Concave Surface (B8 inage Patterns (B10) dized Rhizospheres on Living Roots (Contract tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) omorphic Position (D2)
Type: Co Depth (incemarks: /DROLO /etland Hydrimary India _ Surface _ High Wa _ Saturatia _ Water M _ Sedimer _ Drift Dep _ Algal Ma _ Iron Dep _ Inundatia	GY drology Indicators cators (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 Aeria	one require	Salt Crus Aquatic li Hydroger Dry-Seas ✓ Oxidized	ot (B11) Invertebrate In Sulfide O Ison Water I Rhizosphe Is not tilled) Is of Reduce Is k Surface (I	dor (C1) Fable (C2) Fres on Liv Hed Iron (C4 (C7)	ing Roots	Seconda Suri Spa Dra Oxio (C3) (w Cra ✓ Satu ✓ Gec FAC	ary Indicators (minimum of two require face Soil Cracks (B6) ursely Vegetated Concave Surface (B8 inage Patterns (B10) dized Rhizospheres on Living Roots (Cyhere tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5)
Type: Co Depth (inc Depth (inc Demarks: /DROLO /etland Hyde Manary India Surface High Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatid 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 Aeria tained Leaves (B9)	one require	Salt Crus Aquatic li Hydroger Dry-Seas ✓ Oxidized	ot (B11) Invertebrate In Sulfide O Ison Water I Rhizosphe Is not tilled) Is of Reduce Is k Surface (I	dor (C1) Fable (C2) Fres on Liv Hed Iron (C4 (C7)	ing Roots	Seconda Suri Spa Dra Oxio (C3) (w Cra ✓ Satu ✓ Gec FAC	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8 inage Patterns (B10) dized Rhizospheres on Living Roots (Contract tilled) ayfish Burrows (C8) aration Visible on Aerial Imagery (C9) comorphic Position (D2)
Type: Co Depth (ind Remarks: YDROLO Vetland Hydrimary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Water-S ield Observire	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 Aeria tained Leaves (B9) vations:	one require	Salt Crus Aquatic li Hydroger Dry-Seas Oxidized	et (B11) nvertebrate n Sulfide O son Water Rhizosphe not tilled) e of Reduce k Surface (kplain in Re	dor (C1) Table (C2) res on Liv ed Iron (C4 (C7) emarks)	ing Roots	Seconda Suri Spa Dra Oxio (C3) (w Cra ✓ Satu ✓ Gec FAC	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8 inage Patterns (B10) dized Rhizospheres on Living Roots (Concert tilled) yfish Burrows (C8) arration Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5)
Type: Co Depth (ind Remarks: YDROLO Vetland Hydrimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Water-S ield Observariation	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 Aeria tained Leaves (B9) vations: er Present?	one require Imagery (E	Salt Crus Aquatic li Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	ot (B11) Invertebrate In Sulfide O Ison Water I Rhizosphe I not tilled) I of Reduce Ick Surface (Ick Surface) I oplain in Re	dor (C1) Table (C2) res on Liv ded Iron (C4 (C7) demarks)	ing Roots	Seconda Suri Spa Dra Oxio (C3) (w Cra ✓ Satu ✓ Gec FAC	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8 inage Patterns (B10) dized Rhizospheres on Living Roots (Concert tilled) yfish Burrows (C8) arration Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5)
Type: Co Depth (ind Remarks: YDROLO Vetland Hydrimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Water-S ield Observation	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 Aeria tained Leaves (B9) vations: er Present? Present?	one require I Imagery (E	Salt Crus Aquatic li Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	at (B11) Invertebrate In Sulfide O Son Water I Rhizosphe In not tilled) I of Reduce I k Surface (I k plain in Re I nches): Inches):	dor (C1) Fable (C2) Fres on Liv Ged Iron (C4 (C7) Femarks)	ing Roots	Seconda Suri Spa Dra Oxio (C3) (w Cra ✓ Satu ✓ Geo FAC	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8 inage Patterns (B10) dized Rhizospheres on Living Roots (Concert tilled) yfish Burrows (C8) arration Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5)
Type: Co Depth (ind Remarks: YDROLO Vetland Hydrimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatia Water-S ield Observariace Water Vater Table Saturation Pencludes cap	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 Aeria tained Leaves (B9) vations: er Present? Present? resent?	One require I Imagery (E Yes Yes Yes	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc 37) Other (Ex	at (B11) Invertebrate In Sulfide O Son Water I Rhizosphe In not tilled) I of Reduce I k Surface (I k Surface (I k Surface) I k	dor (C1) Table (C2) tres on Liv ded Iron (C4 (C7) demarks)	ing Roots i) Wet	Seconda Suri Spa Dra Oxio (C3) (w Cra ✓ Satu FAC FFOO	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8 inage Patterns (B10) dized Rhizospheres on Living Roots (Covhere tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)
Type: Co Depth (independent of the color of	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 Aeria tained Leaves (B9) vations: er Present? Present? resent?	One require I Imagery (E Yes Yes Yes	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc 37) Other (Ex	at (B11) Invertebrate In Sulfide O Son Water I Rhizosphe In not tilled) I of Reduce I k Surface (I k Surface (I k Surface) I k	dor (C1) Table (C2) tres on Liv ded Iron (C4 (C7) demarks)	ing Roots i) Wet	Seconda Suri Spa Dra Oxio (C3) (w Cra ✓ Satu FAC FFOO	ary Indicators (minimum of two require face Soil Cracks (B6) arsely Vegetated Concave Surface (B8 inage Patterns (B10) dized Rhizospheres on Living Roots (Control of the tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		City/County	y: Lockha	rt/Caldwell	Sampling Date: 06/18/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T4-DP8
Investigator(s): Troegle, Josh & Littleton, Brandyn			•		
Landform (hillslope, terrace, etc.): Depression					e Slone (%): 0-1
Subregion (LRR): J - Southwestern Prairies	Lat: 29.	.97	, (00,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Long: -97.66	Datum: NAD 83
Soil Map Unit Name: HoC2 - Houston Black clay, 3 to 5					
Are climatic / hydrologic conditions on the site typical for this			_		
Are Vegetation, Soil, or Hydrologys	-				oresent? Yes ✓ No
Are Vegetation, Soil, or Hydrology no SUMMARY OF FINDINGS - Attach site map				eded, explain any answe	,
		7	.g pomer		
Hydrophytic Vegetation Present? Yes ✓ N		is ti	he Sampled	Area	
Hydric Soil Present? Yes ✓ N Wetland Hydrology Present? Yes ✓ N		witl	hin a Wetlar	nd? Yes <u>√</u>	No
Remarks:					
Nemarks.					
VEGETATION – Use scientific names of plan	ts.				
Tree Stratum (Plot size: 30'	Absolute		t Indicator	Dominance Test work	
1			Status	Number of Dominant Sport That Are OBL, FACW, or	
2.				(excluding FAC-):	2 (A)
3.				Total Number of Domin	ant
4.				Species Across All Stra	•
		= Total Co	ver	Percent of Dominant Sp	oecies
Sapling/Shrub Stratum (Plot size: 15')	40	Yes	FACU	That Are OBL, FACW,	
1. Prosopis glandulosa 2. Ulmus crassifolia	5	No	FAC	Prevalence Index wor	ksheet:
3. Juniperus virginiana	5	No	UPL		Multiply by:
4				OBL species	x 1 =
5	·			FACW species	x 2 =
	50	= Total Co	over		x 3 =
Herb Stratum (Plot size: 5'					x 4 =
1. Iva annua	50	Yes	FAC	UPL species	
2. Eleocharis palustris 3. Carex brevior	10	Yes No	FAC	Column Totals:	(A) (B)
			TAC	Prevalence Index	= B/A =
4				Hydrophytic Vegetation	on Indicators:
5				1 - Rapid Test for H	lydrophytic Vegetation
7				✓ 2 - Dominance Tes	
8.				3 - Prevalence Inde	
9.				4 - Morphological A	Adaptations ¹ (Provide supporting sor on a separate sheet)
10					phytic Vegetation ¹ (Explain)
30'	110	= Total Co	over		
Woody Vine Stratum (Plot size: 30'				be present, unless distu	l and wetland hydrology must urbed or problematic.
1				Undrankstia	
2	_	= Total Co	ver	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum				Present? Yes	s No
Remarks:					
Sapling/shrub at edge of depression.					

		to the depth				or confir	m the absence of i	indicators.)			
Depth (inches)	Matrix Color (moist)	<u></u> %	Color (moist)	dox Feature %	Type ¹	Loc ²	Texture	Remarks			
(inches) 0-5	10 YR 2/1		YR 6/8	10	C	M/PL	Clay	Remarks			
0-5	10 11(2/1		1100			1417.	0.09				
								-			
							2	51.5			
	Concentration, D=De					ed Sand (on: PL=Pore Lining, M=Matrix.			
	Indicators: (Appli	cable to all Li						Problematic Hydric Soils ³ :			
Histoso				Gleyed M				k (A9) (LRR I, J)			
	pipedon (A2)			Redox (S				irie Redox (A16) (LRR F, G, H)			
	listic (A3)			ed Matrix (ace (S7) (LRR G)			
	en Sulfide (A4)	E)		y Mucky M				ns Depressions (F16) Houtside of MLRA 72 & 73)			
	d Layers (A5) (LRR			y Gleyed M ted Matrix			•	Vertic (F18)			
	uck (A9) (LRR F, G , ed Below Dark Surfa			ted Matrix k Dark Surf				nt Material (TF2)			
	ark Surface (A12)	00 (ATT)	_	ted Dark S		')		low Dark Surface (TF12)			
	Mucky Mineral (S1)					,		, ,			
Sandy Mucky Mineral (S1) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16)						F16)	Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and				
5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LR							wetland hy	drology must be present,			
	,	,,					unless dis	turbed or problematic.			
Restrictive	Layer (if present):										
Type: Co	obble		_								
	iches): Five						Hydric Soil Pre	esent? Yes 🗸 No			
Remarks:											
r tomanto.											
HYDROLO	GY										
Wetland Hy	drology Indicators	;									
Primary Indi	cators (minimum of	one required;	check all that ap	ply)			Secondary	Indicators (minimum of two required			
	Water (A1)		Salt Cru				Surface	e Soil Cracks (B6)			
_	ater Table (A2)			Invertebrat	es (B13)			ly Vegetated Concave Surface (B8)			
Saturati			Hydroge					ge Patterns (B10)			
_	Marks (B1)			son Water		')		ed Rhizospheres on Living Roots (C			
	ent Deposits (B2)		✓ Oxidized		•	•		re tilled)			
	posits (B3)		_	e not tilled		villig ricot	, ,	h Burrows (C8)			
	at or Crust (B4)		•	e of Reduc	-	·4)		ion Visible on Aerial Imagery (C9)			
				ck Surface		, ¬,		orphic Position (D2)			
_	posits (B5)	Imagan, (B7)						eutral Test (D5)			
_	ion Visible on Aeria		Other (E	xpiain in K	emarks)			leave Hummocks (D7) (LRR F)			
	Stained Leaves (B9)						Frost-H	leave Hummocks (D7) (LRR F)			
Field Obser			/								
Surface Wa			Depth (
Water Table			o <u>√</u> Depth (
Saturation F	Present?	Yes No	o <u>✔</u> Depth ((inches): _		We	etland Hydrology P	resent? Yes <u>√</u> No			
(includes ca	pillary fringe)			-l mboton w		tions) if eveilable:				
Describe Re	ecorded Data (stream	n gauge, mon	noring well, aeria	ai priotos, p	revious ir	spections	o), ii avallable:				
Remarks:											

Project/Site: 130 Environmental Park		Citv/Coun	_{itv:} Lockhai	rt/Caldwell	Sampling Date: 06/19/201
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T4-DP9
Investigator(s): Troegle, Josh & Littleton, Brand					. Cumpling Folia.
Landform (hillslope, terrace, etc.): Depression					/e ol (v.) 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: HoC2 - Houston Black clay, 3	to 5 percent s	lopes, er	roded	NWI classific	cation: None
Are climatic / hydrologic conditions on the site typical for	this time of yea	ar? Yes_	✓ No	(If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly	disturbed	? Are "	'Normal Circumstances"	present? Yes ✓ No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	? (If ne	eeded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma				ocations, transects	s, important features, et
Hydrophytic Vegetation Present? Yes ✓	No	Π.			
Hydric Soil Present? Yes	No <u>√</u>		the Sampled		N
Wetland Hydrology Present? Yes ✓	No	W	thin a Wetlar	id? Yes	No <u>√</u>
Remarks:					
VEGETATION – Use scientific names of p	lants.				
Tree Stratum (Plot size: 30'			nt Indicator	Dominance Test work	ksheet:
,			s? Status	Number of Dominant S	
1				That Are OBL, FACW, (excluding FAC-):	3 (A)
2				T-1-1N	,
3				Total Number of Domir Species Across All Stra	F
4		= Total C	20102	'	、,
Sapling/Shrub Stratum (Plot size: 15'		- Total C	ovei	Percent of Dominant S That Are OBL, FACW,	
1. Prosopis glandulosa	50	Yes	FACU		
2. Celtis laevigata	5	No	FAC	Prevalence Index wor	
3. Ulmus crassifolia	5	No	FAC		Multiply by:
4. Juniperus virginiana	5	No	UPL		x 1 =
5. Mahonia trifoliolata	5	No	NI		x 2 =
51	70	= Total C	Cover		x 3 =
Herb Stratum (Plot size: 5'	60	Vac	FAC		x 4 =
1. Iva annua 2. Eleocharis palustris	60	Yes	OBL	UPL species	
2. Eleocharis patastris 3. Phanopyrum gymnocarpon	60	Yes	OBL	Column Totals:	(A)(B)
		105	_ OBL	Prevalence Index	x = B/A =
4				Hydrophytic Vegetati	on Indicators:
5				1 - Rapid Test for	Hydrophytic Vegetation
6				✓ 2 - Dominance Te	st is >50%
7				3 - Prevalence Ind	lex is ≤3.0 ¹
8					Adaptations ¹ (Provide supportin
9					ks or on a separate sheet)
10	400	= Total C		Problematic Hydro	ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30'		- Total C	ovei		il and wetland hydrology must
1. Rubus trivialis	10	Yes	FACU	be present, unless dist	urbed or problematic.
2.				Hydrophytic	
		= Total C	Cover	Vegetation	
% Bare Ground in Herb Stratum				Present? Ye	es No
Remarks:					
Sapling/shrub on perimeter of depression.					

		e to the depth				or confir	m the absence of in	dicators.)
Depth (inches)	Color (moist)	%	Color (moist)	ox Feature %	Type ¹	Loc ²	Texture	Remarks
(inches) 0-4	10 YR 2/1		0 YR 5/1	5 5	D D	M	Clay	Normalina
	10 11(2/1		0 11(0/1					
				_				
-	***************************************			_				
¹ Type: C=C	Concentration, D=De	epletion, RM=R	Reduced Matrix, C	S=Covere	d or Coat	ed Sand (Grains. ² Location	n: PL=Pore Lining, M=Matrix.
	Indicators: (Appli							Problematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy	Gleyed M	atrix (S4)			(A9) (LRR I, J)
Histic E	pipedon (A2)			Redox (S				ie Redox (A16) (LRR F, G, H)
	listic (A3)			ed Matrix (ce (S7) (LRR G)
	en Sulfide (A4)			Mucky Mi	,			Depressions (F16)
	ed Layers (A5) (LRR			Gleyed Med Matrix	. ,		(LRK H	outside of MLRA 72 & 73)
	luck (A9) (LRR F, G ed Below Dark Surfa			ed Matrix (Dark Surf	. ,			Material (TF2)
	oark Surface (A12)	ice (ATT)		ed Dark S	. ,	7)		w Dark Surface (TF12)
	Mucky Mineral (S1)			Depression		,		ain in Remarks)
	Mucky Peat or Peat			iains Depr		F16)	3Indicators of hy	drophytic vegetation and
5 cm M	lucky Peat or Peat (S3) (LRR F)	(M	LRA 72 &	73 of LR	RH)	-	rology must be present,
							unless distu	urbed or problematic.
	Layer (if present):							
Type: C			_					
Depth (in	nches): Four		_				Hydric Soil Pres	sent? Yes No _
Remarks:		-						
Soil is crun	nbly.							
HYDROLO	ngv						1	
	ydrology Indicators							
	icators (minimum of		check all that any	alv)			Secondary In	dicators (minimum of two required)
		one required,	Salt Crus					Soil Cracks (B6)
	e Water (A1)		_	nvertebrat	oc (B13)			Vegetated Concave Surface (B8)
	ater Table (A2) tion (A3)		Hydroger					Patterns (B10)
	Marks (B1)		Dry-Seas		. ,	2)		Rhizospheres on Living Roots (C3)
_	ent Deposits (B2)		Oxidized			,		e tilled)
	eposits (B3)			not tilled				Burrows (C8)
	lat or Crust (B4)		,	of Reduc	•	(4)		n Visible on Aerial Imagery (C9)
	posits (B5)			k Surface		.,		phic Position (D2)
_	tion Visible on Aeria	I Imagery (B7)						utral Test (D5)
	Stained Leaves (B9				,			ave Hummocks (D7) (LRR F)
Field Obse		,						
		Yes No	o ✓ Depth (i	nches):				
Water Table			o ✓ Depth (i					
Saturation I			o <u>✓</u> Depth (i				etland Hydrology Pre	esent? Yes ✓ No
(includes ca	apillary fringe)							
Describe R	ecorded Data (strea	m gauge, mon	itoring well, aeria	photos, p	revious ir	spections	s), if available:	
Remarks:	-							

Project/Site: 130 Environmental Park		City/County	_{y:} Lockha	rt/Caldwell	Sampling Date: 06/	/19/2013	
Applicant/Owner: 130 Environmental Park, LLC				State: TX Sampling Point: T4-DP10			
Investigator(s): Troegle, Josh & Littleton, Brandyn							
Landform (hillslope, terrace, etc.): Depression		Local relie	f (concave,	convex, none): Conca	/e Slope ((%): 0-1	
Subregion (LRR): J - Southwestern Prairies							
Soil Map Unit Name: HoC2 - Houston Black clay, 3 to 5							
Are climatic / hydrologic conditions on the site typical for this			_				
Are Vegetation, Soil, or Hydrology si				'Normal Circumstances"		No	
Are Vegetation, Soil, or Hydrologyn				eeded, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map	showing	samplir	ng point l	ocations, transects	s, important featu	ures, etc.	
Hydrophytic Vegetation Present? Yes ✓ No		- 1					
Hydrophytic Vegetation Present? Yes ✓ No Hydric Soil Present? Yes ✓ No			he Sampled				
		with	nin a Wetlar	nd? Yes <u>▼</u>	No		
Remarks:							
VEGETATION – Use scientific names of plant					••••		
VEGETATION – Use scientific fiames of plant	Absolute	Dominan	t Indicator	Dominance Test work	kehoot:		
Tree Stratum (Plot size: 30'	% Cover			Number of Dominant S			
1				That Are OBL, FACW,			
2				(excluding FAC-):		(A)	
3				Total Number of Domir	nant		
4.				Species Across All Stra	ata: 2	(B)	
Sapling/Shrub Stratum (Plot size: 15')		= Total Co	ver	Percent of Dominant S		(4.47)	
1. Diospyros texana	15	No	NI	That Are OBL, FACW,	or FAC: 50	(A/B)	
2. Prosopis glandulosa	50	Yes	FACU	Prevalence Index wor	rksheet:		
3. Mahonia trifoliolata	10	No	NI	Total % Cover of:			
4		044		OBL species			
5				FACW species			
(District 5')	85	= Total Co	ver	FAC species			
Herb Stratum (Plot size: 5')	85	Yes	OBL				
Phanopyrum gymnocarpon	15	No	OBL	Column Totals:	x 5 =	(B)	
3							
4					c = B/A =		
5.				Hydrophytic Vegetati			
6				1 - Rapid Test for I		n	
7				✓ 2 - Dominance Tes 3 - Prevalence Ind		10.0	
8				4 - Morphological		cupporting	
9				data in Remark	s or on a separate she	eet)	
10.	~=		-	Problematic Hydro	phytic Vegetation ¹ (Ex	(plain)	
Woody Vine Stratum (Plot size: 30')	95	= Total Co	over	¹ Indicators of hydric so	il and wetland hydrolo	av must	
1				be present, unless dist		9,	
2				Hydrophytic			
		= Total Co		Vegetation			
% Bare Ground in Herb Stratum				Present? Ye	es V No	- > 1	
Remarks: Sapling/shrub at perimeter of depression.							
Sapinig/silius at perimeter of depression.							

Profile Desc	cription: (Describ	e to the depti	needed to docu	ment the	indicator	or confi	rm the absence of	indicators.)
Depth	Matrix			ox Feature		Loc²	- Toyture	Pomorka
(inches) 0-5	Color (moist) 10 YR 2/1	<u>%</u>	Color (moist) 10 YR 5/8	_ <u>%</u> 5	Type ¹	M Loc	Texture Clay	Remarks
0-5	10 TK 2/1	====================================	10 11 3/6				_ Clay	
	oncentration, D=D					ed Sand		on: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (App	licable to all L	RRs, unless other	erwise no	ted.)			Problematic Hydric Soils ³ :
Histosol	, .			Gleyed M			_	k (A9) (LRR I, J)
_	pipedon (A2)			Redox (S	•			irie Redox (A16) (LRR F, G, H)
_	istic (A3)			ed Matrix (Mucky Mi				ace (S7) (LRR G) as Depressions (F16)
	en Sulfide (A4) d Layers (A5) (LR I	R F)		Gleyed M				outside of MLRA 72 & 73)
	uck (A9) (LRR F, C			ed Matrix (•	Vertic (F18)
	d Below Dark Surf		✓ Redox				Red Pare	nt Material (TF2)
Thick D	ark Surface (A12)			ed Dark S	•	')		low Dark Surface (TF12)
	Sandy Mucky Mineral (S1) Redox Depressions (F8)							plain in Remarks)
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)								nydrophytic vegetation and
5 cm Mi	ucky Peat or Peat	(S3) (LRR F)	(IVI	LKA /2 &	/3 Of LR	КП)		ydrology must be present, sturbed or problematic.
Restrictive	Layer (if present)	:	- OMP-1				dilloco dic	narbod of problematio.
Type: Co								
	ches): Five						Hydric Soil Pr	esent? Yes ✓ No
Remarks:								
i Komano.								
								70
HYDROLO	GY							
Wetland Hy	drology Indicator	s:						
Primary Indi	cators (minimum c	f one required	check all that app	oly)			Secondary	Indicators (minimum of two required)
Surface	Water (A1)		Salt Crus	t (B11)				e Soil Cracks (B6)
High Wa	ater Table (A2)			nvertebrat				ly Vegetated Concave Surface (B8)
Saturati	on (A3)		Hydroger					ge Patterns (B10)
Water N	/larks (B1)			on Water	•			ed Rhizospheres on Living Roots (C3)
1 —	nt Deposits (B2)		✓ Oxidized			ving Root		re tilled)
i —	posits (B3)		`	not tilled	•			h Burrows (C8)
	at or Crust (B4)		_	of Reduc		(4)		ion Visible on Aerial Imagery (C9)
I — ·	posits (B5)	. I. I /D.7		k Surface				orphic Position (D2)
_	ion Visible on Aeri) Other (E)	xplain in R	emarks)			eutral Test (D5) leave Hummocks (D7) (LRR F)
	Stained Leaves (BS	9)				-	1105t-1	leave Huminocks (D7) (ERR F)
Field Obser		Von N	lo ✓ Depth (i	nchoe):				
	ter Present?		lo <u>√</u> Depth (i					
Water Table			lo <u>√</u> Depth (i				atland Hudralagu D	resent? Yes ✓ No
Saturation P	resent? pillary fringe)	res	io <u>▼</u> Depin (i	ncnes):		— ** *	etianu nyurology P	resent? Tes V NO
Describe Re	corded Data (stre	am gauge, mo	nitoring well, aeria	l photos, p	revious ir	spections	s), if available:	
Remarks:								

Project/Site: 130 Environmental Park		City/Coun	_{ity:} Lockhai	rt/Caldwell Sampling Date: 06/19/2013				
Applicant/Owner: 130 Environmental Park, LLC			State: TX Sampling Point: T4-DP11					
Investigator(s): Troegle, Josh & Littleton, Brandyn	-	Section.	Township, Rai					
Landform (hillslope, terrace, etc.): Depression								
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to								
Are climatic / hydrologic conditions on the site typical for this								
Are Vegetation, Soil, or Hydrology s				'Normal Circumstances" present? Yes <u>✓</u> No				
Are Vegetation, Soil, or Hydrology r	naturally pro	blematic?	? (If ne	eeded, explain any answers in Remarks.)				
SUMMARY OF FINDINGS - Attach site map	showing	sampli	ing point l	ocations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes ✓ N	o	is	the Sampled	∆rea				
Hydric Soil Present? Yes ✓ N		1	thin a Wetlar	,				
Wetland Hydrology Present? Yes ✓ N	o							
Remarks:								
VEGETATION III III III III III III III III III	4-							
VEGETATION – Use scientific names of plan								
Tree Stratum (Plot size: 30'	Absolute % Cover		nt Indicator :? Status_	Dominance Test worksheet:				
1				Number of Dominant Species That Are OBL, FACW, or FAC				
2.				(excluding FAC-): 1 (A)				
3.				Total Number of Dominant				
4				Species Across All Strata: 2 (B)				
1.50		= Total C	Cover	Percent of Dominant Species				
Sapling/Shrub Stratum (Plot size: 15')	50	V	EACH	That Are OBL, FACW, or FAC: 50 (A/B)				
1. Prosopis glandulosa 2. Zanthoxylum clava-herculis	10	Yes No	FACU FACU	Prevalence Index worksheet:				
				Total % Cover of: Multiply by:				
3				OBL species 80 x 1 = 80				
5.				FACW species x 2 =				
5	60	= Total C	Cover	FAC species 40 x 3 = 120				
Herb Stratum (Plot size: 5'	-	Total	,0101	FACU species 60 x 4 = 240				
1. Eleocharis palustris	80	Yes	OBL	UPL species <u>20</u> x 5 = <u>100</u>				
2. Iva annua	20	No	FAC	Column Totals: 200 (A) 540 (B)				
3. Monarda citriodora	20	No	NI NI	Prevalence Index = B/A = 2.7				
4. Coreopsis tinctoria		No	FAC FAC	Hydrophytic Vegetation Indicators:				
5				1 - Rapid Test for Hydrophytic Vegetation				
6				2 - Dominance Test is >50%				
7				✓ 3 - Prevalence Index is ≤3.0 ¹				
8				4 - Morphological Adaptations ¹ (Provide supporting				
9				data in Remarks or on a separate sheet)				
10	140	= Total C		Problematic Hydrophytic Vegetation ¹ (Explain)				
Woody Vine Stratum (Plot size: 30'		Total C	ovei	¹ Indicators of hydric soil and wetland hydrology must				
1				be present, unless disturbed or problematic.				
2				Hydrophytic				
		= Total C	Cover	Vegetation Present? Yes ✓ No				
% Bare Ground in Herb Stratum				Liegenr: 162 - MO				
Remarks:								
Sapling/shrub on perimeter of depression.								
US Army Corps of Engineers				Great Plains – Version 2.0				

Profile Des	scription: (Describ	e to the depth	needed to doci	ment the	indicator	or confir	m the absence of i	ndicators.)
Depth	Matrix			lox Feature	S	12	Tout	Domost-
(inches)	Color (moist)		Color (moist) 0 YR 5/8	<u>%</u> 5	Type ¹	M Loc²	Texture	Remarks
0-5	10 YR 2/1	_ 95 _ 1	0 11 3/6	_ 5	С	IVI	Clay	
						-		
						-		
	-				-	-		
1							2	
71	Concentration, D=D I Indicators: (App					ed Sand (n: PL=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
-		licable to all Lr			-			
Histoso				Gleyed Ma				(A9) (LRR I, J)
_	Epipedon (A2)			Redox (Steed Matrix (S	,			rie Redox (A16) (LRR F, G, H) ce (S7) (LRR G)
_	Histic (A3) gen Sulfide (A4)			/ Mucky Mi			_	s Depressions (F16)
	ed Layers (A5) (LR I	R F)		Gleyed M	, ,			outside of MLRA 72 & 73)
	fuck (A9) (LRR F, C			ted Matrix (, ,			/ertic (F18)
	ed Below Dark Surf			Dark Surf				t Material (TF2)
, — ·	Dark Surface (A12)	. ,	Deple	ed Dark Si	urface (F7)		ow Dark Surface (TF12)
Sandy	Mucky Mineral (S1)	1	Redox	Depression	ns (F8)		Other (Exp	lain in Remarks)
2.5 cm	Mucky Peat or Pea	t (S2) (LRR G ,	H) High F	Plains Depr	essions (F	-16)	³ Indicators of h	ydrophytic vegetation and
5 cm M	lucky Peat or Peat	(S3) (LRR F)	(M	LRA 72 &	73 of LRI	RH)	wetland hy	drology must be present,
							unless dist	urbed or problematic.
	Layer (if present)	:						
Type: _C			_					
Depth (i	nches): <u>Five</u>						Hydric Soil Pre	sent? Yes ✓ No
Remarks:								
10/2201	2014							
HYDROL								
Wetland H	ydrology Indicator	s:						
Primary Ind	licators (minimum o	f one required;	check all that ap	oly)			Secondary I	ndicators (minimum of two required)
Surface	e Water (A1)		Salt Crus	st (B11)			Surface	Soil Cracks (B6)
High W	/ater Table (A2)		Aquatic I	nvertebrate	es (B13)		Sparsely	Vegetated Concave Surface (B8)
Satura	tion (A3)		Hydroge	n Sulfide O	dor (C1)		Drainag	e Patterns (B10)
Water l	Marks (B1)		Dry-Seas	son Water	Table (C2)	Oxidized	Rhizospheres on Living Roots (C3)
Sedime	ent Deposits (B2)		✓ Oxidized	Rhizosphe	eres on Liv	ing Root	s (C3) (when	e tilled)
Drift De	eposits (B3)		(where	not tilled)		Crayfish	Burrows (C8)
Algal M	flat or Crust (B4)		Presence	e of Reduc	ed Iron (C	4)	✓ Saturation	on Visible on Aerial Imagery (C9)
Iron De	eposits (B5)		Thin Mud	k Surface	(C7)		✓ Geomor	phic Position (D2)
Inunda	tion Visible on Aeria	al Imagery (B7)	Other (E	xplain in Re	emarks)		FAC-Ne	utral Test (D5)
Water-	Stained Leaves (B9)					Frost-He	eave Hummocks (D7) (LRR F)
Field Obse	rvations:							
	ater Present?	Yes No	Depth (i	nches):				
Water Table			Depth (i					
Saturation I			Depth (tland Hydrology Dr	esent? Yes ✓ No
	apillary fringe)	. es NO	Depui (-10-	_ ""	dana Trydrology Pr	esent: 165 T NO
Describe R	ecorded Data (strea	ım gauge, moni	toring well, aeria	l photos, p	revious in	spections), if available:	
Remarks:								

Project/Site: 130 Environmental Park	(Citv/Co	_{untv:} Lockha	rt/Caldwell	Sampling Date: <u>06/19/2013</u>
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T4-DP12
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Depression					ve Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5					
Are climatic / hydrologic conditions on the site typical for this			_		
					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology si					·
Are Vegetation, Soil, or Hydrology na				eeded, explain any answe	•
SUMMARY OF FINDINGS – Attach site map s	showing	samp	oling point i	ocations, transects	important features, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> No		١,	s the Sampled	ΙΔτοα	
Hydric Soil Present? Yes ✓ No.		- 1	within a Wetlaı		No
Wetland Hydrology Present? Yes ✓ No	·				
Remarks:					
VEGETATION – Use scientific names of plant	ts.				
VEGETATION COCCIONANTO NAMES OF PRANT	Absolute	Domir	nant Indicator	Dominance Test worl	ksheet:
Tree Stratum (Plot size: 30'			es? Status	Number of Dominant S	
1. Ulmus crassifolia	10	Yes	FAC	That Are OBL, FACW,	or FAC
2				(excluding FAC-):	<u>3</u> (A)
3				Total Number of Domin	_
4				Species Across All Stra	ata: <u>5</u> (B)
20'	10	= Total	Cover	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 30') 1. Diospyros texana	15	Yes	NI	That Are OBL, FACW,	or FAC: 60 (A/B)
2. Prosopis glandulosa	25	Yes	FACU	Prevalence Index wo	rksheet:
				Total % Cover of:	Multiply by:
				OBL species	x 1 =
4				FACW species	x 2 =
0	40	= Total	Cover	FAC species	x 3 =
Herb Stratum (Plot size: 30'			00.0.	FACU species	x 4 =
1. Cyperus polystachyos	10	No	FACW	UPL species	
2. Iva annua	80	Yes	FAC	Column Totals:	(A) (B)
3. Eleocharis palustris	70	Yes	OBL	Prevalence Index	c = B/A =
4. Opuntia engelmannii	10	No	NI	Hydrophytic Vegetati	
5. Phanopyrum gymnocarpon	20	No	OBL	_	Hydrophytic Vegetation
6. Monarda citriodora		No	NI	✓ 2 - Dominance Tes	
7				3 - Prevalence Ind	lex is ≤3.0 ¹
8				4 - Morphological	Adaptations ¹ (Provide supporting
9					s or on a separate sheet)
10	210	- Total	Cover	Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30'		- TOLAI	Cover	¹ Indicators of hydric so	il and wetland hydrology must
1				be present, unless dist	urbed or problematic.
2				Hydrophytic	
20		= Total	Cover	Vegetation Present? Ye	es No
% Bare Ground in Herb Stratum 30				. 1000/101	
Trees/saplings/shrubs at perimeter of depression.					

Profile Desc	cription: (Describe	to the depth ne	eded to docur	nent the i	indicator	or confir	m the absence of in	dicators.)
Depth	Matrix			x Feature		1 2	T 1	
(inches)	Color (moist)		olor (moist) /R 5/8	5	Type'	Loc ²	Texture	Remarks
0-5	10 YR 2/1	95 10	TR 5/6	· -	<u>C</u>	M/PL	Clay	
								·
¹ Type: C=C	oncentration, D=De	pletion, RM=Redu	uced Matrix, CS	S=Covere	d or Coate	ed Sand G		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all LRRs	s, unless other	wise not	ed.)		Indicators for P	roblematic Hydric Soils ³ :
Histosol	(A1)		Sandy (Sleyed Ma	atrix (S4)		1 cm Muck (A9) (LRR I, J)
	oipedon (A2)			Redox (S5	,			e Redox (A16) (LRR F, G, H)
	stic (A3)			Matrix (S				e (S7) (LRR G)
	n Sulfide (A4)	E \		-	neral (F1)			Depressions (F16)
	d Layers (A5) (LRR lick (A9) (LRR F, G,			Gleyed Ma d Matrix ((LRR H c	outside of MLRA 72 & 73)
	d Below Dark Surfa	,	✓ Redox [•	,			Material (TF2)
	ark Surface (A12)	()			rface (F7))		v Dark Surface (TF12)
	lucky Mineral (S1)			Depressio		•		in in Remarks)
	lucky Peat or Peat		High Pla	ains Depre	essions (F	16)	³ Indicators of hyd	drophytic vegetation and
5 cm Mu	icky Peat or Peat (S	33) (LRR F)	(ML	RA 72 &	73 of LRF	(H)		ology must be present,
							unless distu	rbed or problematic.
	ayer (if present):							
Type: Co								
	ches): Five						Hydric Soil Pres	ent? Yes V No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary India	ators (minimum of	one required; che	ck all that appl	y)			Secondary Inc	licators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surface S	oil Cracks (B6)
High Wa	ter Table (A2)		Aquatic In	vertebrate	es (B13)		Sparsely	Vegetated Concave Surface (B8)
Saturation	on (A3)		Hydrogen				Drainage	Patterns (B10)
	arks (B1)		Dry-Seaso					Rhizospheres on Living Roots (C3)
_	nt Deposits (B2)		✓ Oxidized F			ing Roots	, ,	·
	oosits (B3)		,	not tilled)				Burrows (C8)
	t or Crust (B4)		Presence			4)		Visible on Aerial Imagery (C9)
	osits (B5)		Thin Muck					nic Position (D2)
	on Visible on Aerial		Other (Exp	olain in Re	emarks)			tral Test (D5)
	tained Leaves (B9)						Frost-Hea	ve Hummocks (D7) (LRR F)
Field Obser								
Surface Water		Yes No <u>✓</u>						
Water Table		Yes No <u>✔</u>						
Saturation P	resent?	Yes No <u>▼</u>	Depth (in	ches):		_ Wet	land Hydrology Pres	sent? Yes ✓ No
(includes car Describe Re	ollary fringe) corded Data (strear	n gauge, monitori	ng well, aerial	photos. pr	evious ins	spections)	, if available:	
2000,100 1101		Jg-,	J,	, pi		,	,	
Remarks:			-					

Project/Site: 130 Environmental Park		City/County	_{y:} Lockha	rt/Caldwell	Sampling Date: 06/19/2013
Applicant/Owner: 130 Environmental Park, LLC		-			Sampling Point: T4-DP13
Investigator(s): Troegle, Josh & Littleton, Brandyn		_			
Landform (hillslope, terrace, etc.): None			-	-	Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to	_				
Are climatic / hydrologic conditions on the site typical for thi					
Are Vegetation, Soil, or Hydrology				·	present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map	Showing	Sampin	ig point i		s, important features, etc.
Hydrophytic Vegetation Present? Yes N		ls ti	he Sampled	i Area	
Hydric Soil Present? Yes N	10 🗸		hin a Wetla		No <u>√</u>
Wetland Hydrology Present? Yes N	10 _				
Remarks:					
				- 40	
VEGETATION - Use scientific names of plan	nts.				
201	Absolute		t Indicator	Dominance Test worl	ksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant S	
1. Celtis laevigata	30	Yes	FAC	That Are OBL, FACW, (excluding FAC+):	2
2	_			(excluding FAC-).	<u>3</u> (A)
3				Total Number of Domin	
4				Species Across All Stra	ata: <u>5</u> (B)
15'	30	= Total Co	ver	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 15'	40	Yes	FACU	That Are OBL, FACW,	or FAC: <u>60</u> (A/B)
1. Prosopis glandulosa	40	Yes	FAC	Prevalence Index wo	rksheet:
2. Celtis laevigata 3. Mahonia trifoliolata	5	No No	NI	Total % Cover of:	Multiply by:
					x 1 =
4					x 2 =
5	85	- T-4-1 O-			x 3 =
Herb Stratum (Plot size: 5'		= Total Co	over		x 4 =
1. Nassella leucotricha	90	Yes	NI	1	x 5 =
2. Avena fatua	5	No	NI	1	(A) (B)
3. Cylindropuntia leptocaulis	10	No	NI		
4.					c = B/A =
5				Hydrophytic Vegetati	
6				ı — ·	Hydrophytic Vegetation
7				2 - Dominance Te	
8.				3 - Prevalence Ind	
9.				4 - Morphological	Adaptations ¹ (Provide supporting as or on a separate sheet)
10				1	phytic Vegetation ¹ (Explain)
	105	= Total Co	ver		
Woody Vine Stratum (Plot size: 30'	_			¹ Indicators of hydric so be present, unless dist	il and wetland hydrology must
1. Smilax rotundifolia	_ 5	Yes	FAC	Do prosent, unless dist	arbod of problematic.
2				Hydrophytic	
9/ Rara Ground in Harb Stratum	5	= Total Co	ver	Vegetation Yesent? Yes	es No
% Bare Ground in Herb Stratum					
FAC vegetation, not hydrophytic					
The regulation, not my are physic					

		e to the depth				or confirr	n the absence of in	idicators.)
Depth	Matrix	%	Redo Color (moist)	ox Feature %		Loc ²	Texture	Remarks
(inches)	Color (moist)		Color (moist)	76	_Type_			Kellialks
								115
				_				
¹Type: C=Conc	entration D=De	epletion RM=F	Reduced Matrix, C	S=Covere	d or Coate	d Sand G	rains. ² Location	n: PL=Pore Lining, M=Matrix.
			RRs, unless othe					Problematic Hydric Soils ³ :
Histosol (A1				Gleyed M				(A9) (LRR I, J)
Histic Epipe	•			Redox (S				rie Redox (A16) (LRR F, G, H)
Black Histic				d Matrix (ce (S7) (LRR G)
Hydrogen S					neral (F1)			Depressions (F16)
	ayers (A5) (LRF	R F)		Gleyed M				outside of MLRA 72 & 73)
	(A9) (LRR F, G			ed Matrix			Reduced V	
	elow Dark Surfa	. ,		Dark Surf			_	t Material (TF2)
	Surface (A12)	,			urface (F7)	_	ow Dark Surface (TF12)
	ky Mineral (S1)			Depression	•	,		lain in Remarks)
	ky Peat or Pea				essions (F	16)		ydrophytic vegetation and
	y Peat or Peat (-	73 of LRF			drology must be present,
	,					· .	unless dist	urbed or problematic.
Restrictive Lay	er (if present):							
	es):						Hydric Soil Pres	sent? Yes No <u>√</u>
<u> </u>					-		1.7,2	
Remarks:								
IYDROLOGY	1							
Wetland Hydro		s:						
,	0,		check all that app	oly)			Secondary In	ndicators (minimum of two required
Surface Wa		0110104411041	Salt Crus		-			Soil Cracks (B6)
_	` '				oc (P13)			Vegetated Concave Surface (B8)
High Water			Aquatic II					
Saturation (. ,		Hydroger		, ,			e Patterns (B10)
Water Mark			Dry-Seas					Rhizospheres on Living Roots (C3
	Deposits (B2)		Oxidized			ing Roots	` '	e tilled)
Drift Depos	. ,		•	not tilled	,			Burrows (C8)
Algal Mat or	r Crust (B4)		Presence	of Reduc	ed Iron (C	4)	Saturation	on Visible on Aerial Imagery (C9)
Iron Deposi	its (B5)		Thin Muc	k Surface	(C7)		Geomor	phic Position (D2)
Inundation	Visible on Aeria	il Imagery (B7)	Other (E)	plain in R	emarks)		FAC-Net	utral Test (D5)
Water-Stair	ned Leaves (B9)					Frost-He	eave Hummocks (D7) (LRR F)
Field Observat								
Surface Water F		Yes N	o ✓ Depth (ii	nches).				
Water Table Pre			o ✓ Depth (ii					
Saturation Pres		Yes N	o <u>✓</u> Depth (ii	nches):		_ Wet	lland Hydrology Pro	esent? Yes No ✓
(includes capilla	ary tringe)	m dalide mon	nitoring well, aerial	nhotos n	revious in	snections)	if available	
Describe Recon	ded Data (Strea	ini gauge, mor	intoffing well, aerial	priotos, p	revious iri	spections)	, ii available.	
Remarks:								
remarks.								

Project/Site: 130 Environmental Park		Citv/Coun	tv: Lockhai	rt/Caldwell	Sampling Date: 06/19/2013
Applicant/Owner: 130 Environmental Park, LLC		-	•		Sampling Point: T4-DP14
Investigator(s): Troegle, Josh & Littleton, Branc					
Landform (hillslope, terrace, etc.): None					Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1					
Are climatic / hydrologic conditions on the site typical fo					
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site m					
					,,,
	_ No <u>√</u>	Is	the Sampled	l Area	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes		wit	thin a Wetlar	nd? Yes	No <u>√</u>
Wetland Hydrology Present? Yes	140 4				
Nemarks.					
VEGETATION – Use scientific names of p	lants.				
201	Absolute		nt Indicator	Dominance Test worl	(sheet:
Tree Stratum (Plot size: 30'		-	? Status	Number of Dominant S	
1. Ulmus crassifolia	30	Yes	- FAC	That Are OBL, FACW, (excluding FAC-):	or FAC _2(A)
2. Prosopis glandulosa	10	Yes	FACU		(7)
3				Total Number of Domin Species Across All Stra	
4	40			Opecies Across Air Str	ata (b)
Sapling/Shrub Stratum (Plot size: 15'		= Total C	over	Percent of Dominant S That Are OBL, FACW,	
1. Prosopis glandulosa	20	Yes	FACU	That Are OBL, I ACVV,	011AC (A/B)
2. Ulmus crassifolia	20	Yes	FAC	Prevalence Index wo	rksheet:
3. Celtis laevigata	5	No	FAC	Total % Cover of:	
4. Mahonia trifoliolata	5	No	NI		x 1 =
5					x 2 =
51	50	= Total C	over		x 3 =
Herb Stratum (Plot size: 5')	90	Vac	NI		x 4 =
1. Nassella leucotricha 2. Opuntia engelmannii	20	Yes No	NI NI		x 5 =
				Column Totals:	(A)(B)
3.				Prevalence Index	c = B/A =
4				Hydrophytic Vegetati	on Indicators:
5.				1 - Rapid Test for	Hydrophytic Vegetation
6				2 - Dominance Te	st is >50%
8				3 - Prevalence Ind	
9				4 - Morphological	Adaptations ¹ (Provide supporting s or on a separate sheet)
10.					ophytic Vegetation ¹ (Explain)
	440	= Total C	over		
Woody Vine Stratum (Plot size: 30') 1)				¹ Indicators of hydric so be present, unless dist	il and wetland hydrology must urbed or problematic.
2.				Hydrophytic	
		= Total C	over	Vegetation	es No/
% Bare Ground in Herb Stratum 5				1.1000.11.	NV
Remarks.					

		•				or confirm	the absence of i	ndicators.)
Depth (inches)	Color (moist)		Rede	ox Feature %	S Type ¹	_Loc ²	Texture	Remarks
(inches)	Color (moist)		olor (moist)		Туре	LUC		Remarks
								
							-	
0.00								
							2.	
		epletion, RM=Red				d Sand Gr		on: PL=Pore Lining, M=Matrix.
_		licable to all LRR						Problematic Hydric Soils ³ :
Histosol	, ,			Gleyed Ma				(A9) (LRR I, J)
	ipedon (A2)			Redox (S5				rie Redox (A16) (LRR F, G, H)
Black His				d Matrix (S				ace (S7) (LRR G)
	Sulfide (A4)	3 E)		Mucky Mir	. ,			s Depressions (F16)
-	Layers (A5) (LRF			Gleyed Ma ed Matrix (•	l outside of MLRA 72 & 73) /ertic (F18)
	ck (A9) (LRR F, G Below Dark Surfa			Dark Surfa				nt Material (TF2)
	rk Surface (A12)	uoo (ATT)		ed Dark Su		•		ow Dark Surface (TF12)
	ucky Mineral (S1)	1		Depressio			_ ′	plain in Remarks)
		t (S2) (LRR G, H)				16)		ydrophytic vegetation and
	cky Peat or Peat			RA 72 &	•	•		drology must be present,
								turbed or problematic.
Restrictive L	ayer (if present)	:						
Type:								
Depth (inc	hes):						Hydric Soil Pre	esent? Yes No ✓
Remarks:								
				_				
HYDROLOG	GY							
Wetland Hyd	rology Indicator	s:						
Primary Indica	ators (minimum o	f one required; che	eck all that app	ly)			Secondary I	ndicators (minimum of two required)
Surface V	Vater (A1)		Salt Crust	t (B11)			Surface	Soil Cracks (B6)
High Wat	er Table (A2)		Aquatic Ir	vertebrate	es (B13)		Sparsel	y Vegetated Concave Surface (B8)
Saturatio			Hydrogen					e Patterns (B10)
Water Ma				on Water 1				d Rhizospheres on Living Roots (C3)
	Deposits (B2)		Oxidized					re tilled)
Drift Dep			_	not tilled)				Burrows (C8)
	or Crust (B4)		•	of Reduce		1)		on Visible on Aerial Imagery (C9)
Iron Depo			_	k Surface (,	.,		rphic Position (D2)
	n Visible on Aeria	I Imagery (B7)	Other (Ex					eutral Test (D5)
	ained Leaves (B9	5 , , ,		piairi iri i i	omamo,			eave Hummocks (D7) (LRR F)
					400			cave ridininous (Dr) (ERRT)
Field Observ		Vos.	/ Donth /	ohee).				
Surface Wate		Yes No _						
Water Table F		Yes No _						
Saturation Pro		Yes No _	Depth (ir	nches):		_ Wetla	and Hydrology Pr	resent? Yes No
(includes capi Describe Rec	orded Data (strea	m gauge, monitor	ing well, aerial	photos pr	evious ins	pections)	if available:	
Pegoline 1/60	oraca pata (orice	gaago, monto	, doridi	F.1.0.00, pi	211000 1110	, oo.o.o.,		
Domortici								
Remarks:								

Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	Sampling Date: 06/19/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T4-DP15
Investigator(s): Troegle, Josh & Littleton, Brandyn		Section, To	wnship, Ra	nge: NA	
Landform (hillslope, terrace, etc.): None		Local relief	(concave,	convex, none): None	Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to				NWI classific	
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes <u></u> ✓	No	(If no, explain in F	lemarks.)
Are Vegetation, Soil, or Hydrology s	ignificantly	disturbed?	Are '	"Normal Circumstances"	oresent? Yes ✓ No
Are Vegetation, Soil, or Hydrology n				eeded, explain any answe	
SUMMARY OF FINDINGS - Attach site map	showing	samplin	g point l	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ N	n				
Hydric Soil Present? Yes N			e Sampled		/
Wetland Hydrology Present? Yes N	o √	With	in a Wetlaı	na? Yes	No <u> </u>
Remarks:		'			
VEGETATION – Use scientific names of plan	te			· · · · · · · · · · · · · · · · · · ·	
VEGETATION – Ose scientific flames of plant		Dominant	Indicator	Dominance Test work	ah aat
Tree Stratum (Plot size: 30'	Absolute % Cover	Species?		Number of Dominant S	
1. Ulmus crassifolia	80	Yes	FAC	That Are OBL, FACW,	
2				(excluding FAC-):	<u>4</u> (A)
3				Total Number of Domir	^
4				Species Across All Stra	ta: <u>6</u> (B)
0 15-101 1 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80	= Total Co	/er	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 15' 1. Zanthoxylum clava-herculis	5	No	FACU	That Are OBL, FACW,	or FAC: <u>66</u> (A/B)
2. Mahonia trifoliolata	15	No	NI	Prevalence Index wor	ksheet:
3. Ulmus crassifolia	10	Yes	FAC	Total % Cover of:	Multiply by:
4				OBL species	x 1 =
5.				FACW species	x 2 =
	30	= Total Co	/er		x 3 =
Herb Stratum (Plot size: 5'					x 4 =
1. Nassella leucotricha	20	Yes	NI		x 5 =
2. Eupatorium incarnatum	75	Yes No	FAC NI	Column Totals:	(A) (B)
3. Opuntia engelmannii		NO	INI	Prevalence Index	= B/A =
				Hydrophytic Vegetation	
5				1 - Rapid Test for I	Hydrophytic Vegetation
6				✓ 2 - Dominance Tes	st is >50%
7 8				3 - Prevalence Ind	
9					Adaptations ¹ (Provide supporting
10.					s or on a separate sheet)
	100	= Total Co	ver		phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30'				¹ Indicators of hydric so be present, unless dist	l and wetland hydrology must
1. Smilax rotundifolia	5	<u>Y</u>	FAC		arbed of problematic.
2				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 25	5	= Total Co	ver	Present? Ye	s No
Remarks:					

Depth Matrix (inches) Color (moist) % C	Reday Features	
	Redox Features Color (moist) % Type ¹	Loc ² Texture Remarks
0-5 10 YR 4/2 100		Sandy clay
¹ Type: C=Concentration, D=Depletion, RM=Red	fuced Matrix CS=Covered or Coated S	Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRR		Indicators for Problematic Hydric Soils ³ :
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)
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)		
5 cm Mucky Peat or Peat (S3) (LRR F)	(MLRA 72 & 73 of LRR H)	,
		unless disturbed or problematic.
Restrictive Layer (if present):		
Type: Cobble		
Depth (inches): Six		Hydric Soil Present? Yes No ✓
Remarks:		
HYDROLOGY		
TUROLOGT		
Wetland Hydrology Indicators:		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; ch		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one required; ch Surface Water (A1)	Salt Crust (B11)	Surface Soil Cracks (B6)
Primary Indicators (minimum of one required; ch	Salt Crust (B11) Aquatic Invertebrates (B13)	
Primary Indicators (minimum of one required; ch Surface Water (A1)	Salt Crust (B11)	Surface Soil Cracks (B6)
Primary Indicators (minimum of one required; ch Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Aquatic Invertebrates (B13)	Surface Soil Cracks (B6)Sparsely Vegetated Concave Surface (B8)
Primary Indicators (minimum of one required; ch Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	 Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3)
Primary Indicators (minimum of one required; ch 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) 	 Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3)
Primary Indicators (minimum of one required; ch 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 Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) Roots (C3) (where tilled)
Primary Indicators (minimum of one required; ch 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 Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8)
Primary Indicators (minimum of one required; ch Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal 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 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)
Primary Indicators (minimum of one required; ch 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)	 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) 	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) g Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Primary Indicators (minimum of one required; ch 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) 	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) Geomorphic Position (D2) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; ch 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	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) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
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	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)	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) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
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	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):	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) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
Primary Indicators (minimum of one required; check 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 Saturation 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)	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) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
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	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)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) g 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) Wetland Hydrology Present? Yes No ✓
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 Saturation Present? Yes No Sincludes 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)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) g 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) Wetland Hydrology Present? Yes No ✓
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 Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monito	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)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) g 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) Wetland Hydrology Present? Yes No ✓
Primary Indicators (minimum of one required; ch 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)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) g 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) Wetland Hydrology Present? Yes No ✓
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 Nogaration Present? Yes Nogarations Nogarations Nogarations Nogarations Nogaration Present? Yes Nogarations Nogarations Nogarations Recorded Data (stream gauge, monito	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)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) g 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) Wetland Hydrology Present? Yes No ✓

Project/Site: 130 Environmental Park	(City/Cou	_{unty:} Lockha	rt/Caldwell	_ Sampling Date: 07/11/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T4-DP16
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Fringe wetlandf					ve Slope (%): 0-6
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1-					
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology s					present? Yes No
Are Vegetation, Soil, or Hydrology n	aturally pro	blemati	c? (If ne	eded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	samp	ling point l	ocations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ N	n				
Hydric Soil Present? Yes ✓ N			s the Sampled		
Wetland Hydrology Present? Yes ✓ N		٧	within a Wetlar	nd? Yes <u>▼</u>	No
Remarks:					
NEGETATION III and a significant for the second of the sec	4-				
VEGETATION – Use scientific names of plan				15	
Tree Stratum (Plot size: 30'	Absolute % Cover		nant Indicator es? Status	Dominance Test wor	
1				Number of Dominant S That Are OBL, FACW	
2.				(excluding FAC-):	<u>1</u> (A)
3.				Total Number of Domi	inant
4				Species Across All Str	rata: <u>1</u> (B)
161		= Total	Cover	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 15'				That Are OBL, FACW	, or FAC: 100 (A/B)
1.				Prevalence Index wo	orksheet:
2.				Total % Cover of:	Multiply by:
3				OBL species	x 1 =
4				1	x 2 =
5		= Total	Cover	1	x 3 =
Herb Stratum (Plot size: 5'		10101	00701	FACU species	x 4 =
1. Eleocharis compressa	90	Yes	OBL	UPL species	x 5 =
2. Iva annua	15	No	FAC	Column Totals:	(A) (B)
3. Persicaria hydropiper	10	No	OBL	Prevalence Inde	x = B/A =
4				Hydrophytic Vegetat	
5				1	Hydrophytic Vegetation
6				✓ 2 - Dominance Te	
7.				3 - Prevalence Inc	dex is ≤3.0 ¹
8.					Adaptations ¹ (Provide supporting
9					ks or on a separate sheet)
10		= Total	Carran	Problematic Hydro	ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30')		- 10tai	Cover	¹ Indicators of hydric so be present, unless dis	oil and wetland hydrology must sturbed or problematic.
2.				Hydrophytic	
		= Total	Cover	Vegetation	
% Bare Ground in Herb Stratum 25				Present? Y	es No
Remarks:					

Depth	Matrix		pth needed to docu	ox Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks		
0-16	10 YR 3/1	25	5 YR 4/6	15	С	M/PL	Clay			
	10 YR 6/2	40	5 YR 5/8	20	С	M/PL				
_										
		_								
		_								
			M=Reduced Matrix, C			ed Sand G		n: PL=Pore Lining, M=Matrix.		
•		licable to a	II LRRs, unless oth					Problematic Hydric Soils ³ :		
Histosol				Gleyed M			_	(A9) (LRR I, J)		
	pipedon (A2)			Redox (S				ie Redox (A16) (LRR F, G, H)		
	istic (A3) en Sulfide (A4)			ed Matrix (ుం) ineral (F1)			ce (S7) (LRR G) Depressions (F16)		
	d Layers (A5) (LR I	? F)		-	fatrix (F2)			outside of MLRA 72 & 73)		
_	uck (A9) (LRR F, C	•	✓ Deplet	-			Reduced V			
_	d Below Dark Surf			Dark Sur				Material (TF2)		
Thick Da	ark Surface (A12)		Deplet	ed Dark S	urface (F7)	Very Shallo	w Dark Surface (TF12)		
	Mucky Mineral (S1)			Depressi	ons (F8)			lain in Remarks)		
	Mucky Peat or Pea	. , .					³ Indicators of hydrophytic vegetation and			
5 cm Mu	ucky Peat or Peat	(S3) (LRR F	⁵) (M	LRA 72 &	73 of LRF	RH)	wetland hydrology must be present, unless disturbed or problematic.			
5 4 : 12 -	1 (!5						unless dist	urbed or problematic.		
	Layer (if present)									
Type:										
Depth (in	ches):						Hydric Soil Pres	sent? Yes No		
Remarks:										
No hydric s	oil indicators obs	served.								
IYDROLO	GY				·					
	drology Indicator									
			ad: shook all that an	sha\			Cocondon	diastore (minimum of two required)		
		one requir	ed; check all that app					dicators (minimum of two required)		
_	Water (A1)		Salt Crus	,	(D40)			Soil Cracks (B6)		
	ater Table (A2)			nvertebrat				Vegetated Concave Surface (B8)		
Saturation	` '			Sulfide C	٠,,			Patterns (B10)		
_	farks (B1)		✓ Oxidized		Table (C2			Rhizospheres on Living Roots (C3		
	nt Deposits (B2)					ing Roots		e tilled)		
Drift De			,	not tilled	,	4)		Burrows (C8)		
	at or Crust (B4)		-		ed Iron (C	4)		on Visible on Aerial Imagery (C9)		
	oosits (B5) on Visible on Aeria	llmasan./		k Surface	. ,			ohic Position (D2)		
			Other (E)	oplain in R	emarks)		_	utral Test (D5)		
	Stained Leaves (B9	')					FIOSI-FIE	ave Hummocks (D7) (LRR F)		
Field Obser		v /	No. Donate (0	-5"					
Surface Wat			No Depth (i			-				
Water Table			No ✓ Depth (i							
Saturation P		Yes	No ✓ Depth (i	nches):		Wet	land Hydrology Pro	esent? Yes <u>√</u> No		
	pillary fringe) corded Data (strea	m gauge. n	nonitoring well, aeria	photos, r	revious in	spections)	. if available:			
		330,11		,		,				
DOSONDO I NO										
Remarks:	drology criterion	is not met			-					
Remarks:	drology criterion	is not met								



Data Point 1 Mesquite Grassland Mosaic



Data Point 1 Mesquite Grassland Mosaic



Data Point 2 Mesquite Grassland Mosaic

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Data Point 3
Riparian Woods (Cedar Elm/ Oak)



Data Point 4 Mesquite Grassland Mosaic



Data Point 4 Mesquite Grassland Mosaic

T4 - Page 2



Data Point 5 Mesquite Grassland Mosaic



Data Point 5 Mesquite Grassland Mosaic



Data Point 6 Riparian Woods (Cedar Elm/ Oak)

T4 - Page 3



Data Point 6 Riparian Woods (Cedar Elm/ Oak)



Data Point 7 Sumpweed Depressions



Data Point 7 Sumpweed Depressions

T4 - Page 4



Data Point 8 Sumpweed Depressions



Data Point 9 Sumpweed Depressions



Data Point 9 Sumpweed Depressions

T4 - Page 5



Data Point 10 Sumpweed Depressions



Data Point 11 Sumpweed Depressions



Data Point 11 Sumpweed Depression



Data Point 12 Sumpweed Depression



Data Point 12 Sumpweed Depressions



Data Point 13 Mesquite Grassland Mosaic

T4 - Page 7



Data Point 13 Mesquite Grassland Mosaic



Data Point 14 Mesquite Woods



Data Point 14 Mesquite Woods

T4 - Page 8



Data Point 15 Cedar Elm Woods



Data Point 15 Cedar Elm Woods



Data Point 16 Lacustrine Fringe Wetlands

T4 - Page 9



Data Point 16 Lacustrine Fringe Wetlands

Project/Site: 130 Environmental Park		City/Co	ountv:	Lockha	rt/Caldwell	Sampling Date: 0	6/19/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandy							
Landform (hillslope, terrace, etc.): Hillslope				-		Slop	e (%)· 2-5%
Subregion (LRR): J - Southwestern Prairies							
Soil Map Unit Name: HoC2 - Houston Black clay, 3 to							
Are climatic / hydrologic conditions on the site typical for t						-	
Are Vegetation, Soil, or Hydrology					"Normal Circumstances"	·	No
Are Vegetation, Soil, or Hydrology						· —	NO
SUMMARY OF FINDINGS – Attach site ma					eeded, explain any answe	,	tures, etc.
	/	T					<u></u>
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes			Is the	e Sampled		,	
Wetland Hydrology Present? Yes	No ✓		withi	in a Wetlaı	nd? Yes	No ✓	
Remarks:							
VEGETATION – Use scientific names of pla	ınts.						
- a 30'	Absolute			Indicator	Dominance Test worl	(sheet:	
Tree Stratum (Plot size: 30'	% Cover				Number of Dominant S		
1					That Are OBL, FACW, (excluding FAC-):	^	(A)
3.							
4					Total Number of Domin Species Across All Stra		(B)
			al Cov	er	Percent of Dominant S		.,
Sapling/Shrub Stratum (Plot size: 15'				-	That Are OBL, FACW,		(A/B)
1					Prevalence Index wo	draha at	
2						Multiply	hv:
3					OBL species		
4					FACW species		
5					FAC species		
Herb Stratum (Plot size: 5'		= Tota	ai Cov	er	FACU species		
1. Monarda citriodora	10	No		NI	UPL species		
2. Nassella leucotricha	60	Yes		NI	Column Totals:	(A)	(B)
3. Aristida purpurea	30	Yes		NI	Dravalance Index	D/A -	
4					Hydrophytic Vegetati	c = B/A =	
5					1 - Rapid Test for		ion
6					2 - Dominance Tes		ion
7					3 - Prevalence Ind		
8					1	Adaptations ¹ (Provid	e supporting
9						s or on a separate s	
10	100				Problematic Hydro	phytic Vegetation ¹ (I	Explain)
Woody Vine Stratum (Plot size: 30'	100	= Tota	al Cov	er	¹ Indicators of hydric so	il and wetland hydro	logv must
1					be present, unless dist	urbed or problemation).
2.					Hydrophytic		
		= Tota			Vegetation		
% Bare Ground in Herb Stratum					Present? Ye	esNo	
Remarks:							

Profile Description:	(Describe	to the depth				or confir	m the absence of ir	dicators.)			
Depth	Matrix	%	Red Color (moist)	ox Feature %		Loc ²	Texture	Remarks			
(inches) Colo	r (moist)		Color (moist)		Туре	LOC	rexture	Remarks			
				_							
											
¹ Type: C=Concentrat	ion DeDon	letion DM-D	advend Matrix C	C=Covere	d or Coots	d Sand (Crains ² l continu	n: PL=Pore Lining, M=Matrix.			
Hydric Soil Indicator	ion, D=Dep	able to all I R	Rs unless othe	orwise not	ed.)	u Sanu C		Problematic Hydric Soils ³ :			
-	s. (Applica	able to all Elt		Gleyed Ma				(A9) (LRR I, J)			
Histosol (A1) Histic Epipedon (a)	۸۵)			Redox (S				ie Redox (A16) (LRR F, G, H)			
Black Histic (A3)	nz)			ed Matrix (ce (S7) (LRR G)			
Hydrogen Sulfide	(A4)			Mucky Mi				Depressions (F16)			
Stratified Layers		;)		Gleyed M				outside of MLRA 72 & 73)			
1 cm Muck (A9) (ed Matrix (Reduced V				
Depleted Below [Dark Surfa			Red Parent	: Material (TF2)			
Thick Dark Surface	ce (A12)		Deplet	ed Dark Si	ırface (F7))		w Dark Surface (TF12)			
Sandy Mucky Mir	neral (S1)		_	Depression	, ,			ain in Remarks)			
2.5 cm Mucky Pe				lains Depr				drophytic vegetation and			
5 cm Mucky Peat	or Peat (S	3) (LRR F)	(M	LRA 72 &	73 of LRR	(H)					
			_				unless dist	urbed or problematic.			
Restrictive Layer (if											
Туре:			_								
Depth (inches):							Hydric Soil Pres	sent? Yes No ✓			
Remarks:											
HYDROLOGY											
Wetland Hydrology I	ndicators										
Primary Indicators (mi		no required: o	hack all that an	alv.)			Secondary In	dicators (minimum of two required)			
		ne required, c									
Surface Water (A	•		Salt Crus		- (D40)			Soil Cracks (B6)			
High Water Table	e (A2)			nvertebrate				Vegetated Concave Surface (B8)			
Saturation (A3)			_ , ,	n Sulfide O	• ,			Patterns (B10)			
Water Marks (B1)			Dry-Seas				_	Rhizospheres on Living Roots (C3)			
Sediment Deposi	, ,		Oxidized			ing Roots	, ,	e tilled)			
Drift Deposits (B3			,	not tilled		• >		Burrows (C8)			
Algal Mat or Crus			Presence		•	4)		on Visible on Aerial Imagery (C9)			
Iron Deposits (B5	•		Thin Muc					phic Position (D2)			
Inundation Visible		magery (B7)	Other (Ex	kplain in R	emarks)			utral Test (D5)			
Water-Stained Le	aves (B9)						Frost-He	ave Hummocks (D7) (LRR F)			
Field Observations:											
Surface Water Preser	nt? Y	es No	Depth (i	nches):		_					
Water Table Present?	Y	es No	Depth (i	nches):							
Saturation Present?	Y	es No	Depth (i	nches):		We	tland Hydrology Pre	esent? Yes No			
(includes capillary frin	ge)) Margh-blac				
Describe Recorded D	ata (stream	gauge, monit	oring well, aeria	pnotos, p	revious ins	pections), if available:				
Remarks:											

Project/Site: 130 Environmental	l Park		City/Coun	_{ity:} Lockha	rt/Caldwell	Sampling Date: 06/	19/2013
Applicant/Owner: 130 Environme					State: TX		
Investigator(s): Troegle, Josh &							
Landform (hillslope, terrace, etc.):				-	_	Slope (%): 2-4
					Long: -97.66 Datum: NAD 83		
Soil Map Unit Name: WgC - Wilson	•				NWI classific		
Are climatic / hydrologic conditions o							
Are Vegetation, Soil,		-			'Normal Circumstances"	•	No
Are Vegetation, Soil,					eeded, explain any answe		
SUMMARY OF FINDINGS -						,	ıres, etc.
Hydrophytic Vegetation Present?	Yes ✓	No		4. 6			
Hydric Soil Present?	Yes	No <u></u> ✓		the Sampled thin a Wetlar		No <u>√</u>	
Wetland Hydrology Present?	Yes	No <u>√</u>	***	umi a weda	id: Tes		
Remarks:							
VEGETATION – Use scienti	fic names of pla	ants.					
		Absolute	Domina	nt Indicator	Dominance Test worl	ksheet:	
Tree Stratum (Plot size: 30')			? Status	Number of Dominant S		
1. Ulmus crassifolia		40	Yes	FAC	That Are OBL, FACW,	or FAC	
2. Prosopis glandulosa		10	No	FACU	(excluding FAC-):	3	(A)
3. Quercus virginiana		10	No	FACU	Total Number of Demir	nont	
					Total Number of Domir Species Across All Stra	4	(B)
4		60					_ (5)
Sapling/Shrub Stratum (Plot size:	15'		= Total C	over	Percent of Dominant S		
1. Ulmus crassifolia		20	Yes	FAC	That Are OBL, FACW,	or FAC: <u>75</u>	(A/B)
		$-\frac{20}{10}$	No	FACU	Prevalence Index wor	rksheet:	
2. Prosopis glandulosa					Total % Cover of:		
3. <u>Ilex vomitoria</u>			Yes	FAC		x 1 =	
4					FACW species		
5					FAC species		
51		80	= Total C	over			
Herb Stratum (Plot size: 5')	00	87.	NIY	FACU species		
1. Nassella leucotricha		90	Yes	NI NI	UPL species	x 5 =	
2. Ambrosia artemisiifolia			No	FACU FACU	Column Totals:	(A)	(B)
3					Brovolones Index	B/A -	
4						c = B/A =	
5					Hydrophytic Vegetati		
6						Hydrophytic Vegetation	1
7					✓ 2 - Dominance Tes		
8					3 - Prevalence Ind		
					4 - Morphological	Adaptations¹ (Provide s	supporting
9					1	s or on a separate she	•
10		100	T-1-10		Problematic Hydro	phytic Vegetation' (Ex	plain)
Woody Vine Stratum (Plot size: 3	0'	100	= Total C	over	¹ Indicators of hydric so	il and wetland hydrolog	v must
					be present, unless dist	urbed or problematic.	,,
1					D. d. and d.		
2			- T-1-1 0		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 5			= Total C	over	Present? Ye	es <u>√</u> No	_
Remarks:					J		
FAC vegetation, not hydrophytic	.						

Depth Mat		Redox	x Features			
(inches) Color (mois		Color (moist)	%Type ¹	_Loc ²	<u>Texture</u>	Remarks
0-3 10 YR 4/2	100				Sandy clay	
3-10 10 YR 4/1	100				Clay	
						100.00
						
¹ Type: C=Concentration, D=	-Depletion PM=	Reduced Matrix CS	=Covered or Coats	ad Sand Gr	rains ² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Ap				d Carla Ci		oblematic Hydric Soils ³ :
Histosol (A1)			Bleyed Matrix (S4)		1 cm Muck (A	
Histic Epipedon (A2)			Redox (S5)			Redox (A16) (LRR F, G, H)
Black Histic (A3)		Stripped	Matrix (S6)		Dark Surface	(S7) (LRR G)
Hydrogen Sulfide (A4)		Loamy N	Mucky Mineral (F1)		High Plains D	Depressions (F16)
Stratified Layers (A5) (L	RR F)		Gleyed Matrix (F2)		·	utside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F			d Matrix (F3)		Reduced Ver	
Depleted Below Dark St		_	Oark Surface (F6)		Red Parent N	, ,
Thick Dark Surface (A12	,		d Dark Surface (F7)		Dark Surface (TF12)
Sandy Mucky Mineral (S			Depressions (F8)	40)		in in Remarks)
2.5 cm Mucky Peat or P			ins Depressions (F RA 72 & 73 of LRF			rophytic vegetation and ology must be present,
5 cm Mucky Peat or Pea	at (53) (LKK F)	(ML	KA 12 & 13 01 LKF	(n)		bed or problematic.
	Α.					ou or production
Restrictive Laver (if preser	17):				1	
Restrictive Layer (if preser	it):					
Type: Clay pan	nt):	_			Hydric Soil Prese	ant? Ves No.√
Type: Clay pan Depth (inches): Ten	it):				Hydric Soil Prese	ent? Yes No <u>√</u>
Type: Clay pan	it):				Hydric Soil Prese	ent? Yes No ✓
Type: Clay pan Depth (inches): Ten	nt):				Hydric Soil Prese	ent? Yes No <u>√</u>
Type: Clay pan Depth (inches): Ten	1():				Hydric Soil Prese	ent? Yes No <u>√</u>
Type: Clay pan Depth (inches): Ten Remarks:					Hydric Soil Prese	ent? Yes No ✓
Type: Clay pan Depth (inches): Ten Remarks:					Hydric Soil Prese	ent? Yes No.✓
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate	ors:	; check all that apply	γ)			ent? Yes No
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum	ors:				Secondary Ind	icators (minimum of two req
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)	ors:	Salt Crust	(B11)		Secondary Ind	icators (minimum of two requoil Cracks (B6)
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2)	ors:	Salt Crust	(B11) vertebrates (B13)		Secondary Ind Surface So Sparsely V	icators (minimum of two required to the contract of the contra
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	ors:	Salt Crust Aquatic Inv	(B11) vertebrates (B13) Sulfide Odor (C1)		Secondary Ind Surface So Sparsely V Drainage B	icators (minimum of two required Cracks (B6) /egetated Concave Surface Patterns (B10)
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ors: of one required:	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso	(B11) vertebrates (B13) Sulfide Odor (C1) n Water Table (C2)		Secondary Ind Surface So Sparsely V Drainage F Oxidized F	icators (minimum of two requivalents) oil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ors: of one required:	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R	(B11) vertebrates (B13) Sulfide Odor (C1) in Water Table (C2) Rhizospheres on Liv		Secondary Ind Surface So Sparsely V Drainage F Oxidized F (C3) (where to	icators (minimum of two req oil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled)
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ors: of one required:	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r	(B11) vertebrates (B13) Sulfide Odor (C1) in Water Table (C2) Rhizospheres on Liv	ring Roots	Secondary Ind Surface So Sparsely V Drainage F Oxidized F (C3) (where t Crayfish B	icators (minimum of two requipile Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled)
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ors: of one required:	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r	(B11) vertebrates (B13) Sulfide Odor (C1) in Water Table (C2) Rhizospheres on Livertilled) of Reduced Iron (C-	ring Roots	Secondary Ind Surface So Sparsely V Drainage F Oxidized F (C3) (where to Crayfish B Saturation	icators (minimum of two requoil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled) surrows (C8)
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 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)	ors: of one required:	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Thin Muck	(B11) /ertebrates (B13) Sulfide Odor (C1) in Water Table (C2) Rhizospheres on Liver tilled) of Reduced Iron (C6) Surface (C7)	ring Roots	Secondary Indi Surface So Sparsely V Drainage F Oxidized F (C3) (where to Crayfish B Saturation Geomorph	icators (minimum of two requoil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled) surrows (C8) Visible on Aerial Imagery (Caic Position (D2)
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 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 As	ors: of one required; erial Imagery (B7	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Thin Muck	(B11) vertebrates (B13) Sulfide Odor (C1) in Water Table (C2) Rhizospheres on Livertilled) of Reduced Iron (C-	ring Roots	Secondary Ind Surface So Sparsely V Drainage F Oxidized F Crayfish B Saturation Geomorph FAC-Neutr	icators (minimum of two requoil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled) Burrows (C8) Visible on Aerial Imagery (Calc Position (D2) ral Test (D5)
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 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 A6 Water-Stained Leaves (ors: of one required; erial Imagery (B7	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Thin Muck	(B11) /ertebrates (B13) Sulfide Odor (C1) in Water Table (C2) Rhizospheres on Liver tilled) of Reduced Iron (C6) Surface (C7)	ring Roots	Secondary Ind Surface So Sparsely V Drainage F Oxidized F Crayfish B Saturation Geomorph FAC-Neutr	icators (minimum of two requoil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled) surrows (C8) Visible on Aerial Imagery (Caic Position (D2)
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 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 Ae Water-Stained Leaves (Field Observations:	ors: of one required: erial Imagery (B7	Salt Crust Aquatic Inv Hydrogen 3 Dry-Seaso Oxidized R	(B11) vertebrates (B13) Sulfide Odor (C1) in Water Table (C2) Rhizospheres on Liver tilled) of Reduced Iron (C- Surface (C7) olain in Remarks)	ring Roots	Secondary Ind Surface So Sparsely V Drainage F Oxidized F Crayfish B Saturation Geomorph FAC-Neutr	icators (minimum of two requoil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled) Burrows (C8) Visible on Aerial Imagery (Calc Position (D2) ral Test (D5)
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 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 Ae Water-Stained Leaves (Field Observations: Surface Water Present?	ors: of one required; erial Imagery (B7, B9)	Salt Crust Aquatic Inv Hydrogen is Dry-Seaso Oxidized R	(B11) vertebrates (B13) Sulfide Odor (C1) in Water Table (C2) Rhizospheres on Liver tilled) of Reduced Iron (Consurface (C7) Islain in Remarks) Inches):	ring Roots	Secondary Ind Surface So Sparsely V Drainage F Oxidized F Crayfish B Saturation Geomorph FAC-Neutr	icators (minimum of two requoil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled) Burrows (C8) Visible on Aerial Imagery (Calc Position (D2) ral Test (D5)
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 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 Ae Water-Stained Leaves (Field Observations:	ors: of one required: rial Imagery (B7) B9) Yes N Yes N	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp	(B11) /ertebrates (B13) Sulfide Odor (C1) In Water Table (C2) Rhizospheres on Liver tilled) of Reduced Iron (C4) Surface (C7) Iolain in Remarks) Inches):	ring Roots	Secondary Indi Surface So Sparsely V Drainage F Oxidized F Crayfish B Saturation Geomorph FAC-Neuti Frost-Hear	icators (minimum of two requoil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled) surrows (C8) Visible on Aerial Imagery (Canic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 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 Active Water-Stained Leaves (Field Observations: Surface Water Present? Water Table Present? Saturation Present?	ors: of one required: rial Imagery (B7) B9) Yes N Yes N	Salt Crust Aquatic Inv Hydrogen is Dry-Seaso Oxidized R	(B11) /ertebrates (B13) Sulfide Odor (C1) In Water Table (C2) Rhizospheres on Liver tilled) of Reduced Iron (C4) Surface (C7) Iolain in Remarks) Inches):	ring Roots	Secondary Indi Surface So Sparsely V Drainage F Oxidized F Crayfish B Saturation Geomorph FAC-Neuti Frost-Hear	icators (minimum of two requoil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled) Burrows (C8) Visible on Aerial Imagery (Calc Position (D2) ral Test (D5)
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 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 Ae Water-Stained Leaves (Field Observations: Surface Water Present? Water Table Present?	ors: of one required: erial Imagery (B7) B9) Yes N Yes N	Salt Crust Aquatic Inv Hydrogen is Dry-Seaso Oxidized R	(B11) vertebrates (B13) Sulfide Odor (C1) in Water Table (C2) Rhizospheres on Liver tilled) of Reduced Iron (Consurface (C7) olain in Remarks) ches): ches):	ving Roots	Secondary Ind Surface So Sparsely V Drainage R Oxidized F Crayfish B Saturation Geomorph FAC-Neut Frost-Hear	icators (minimum of two requoil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled) surrows (C8) Visible on Aerial Imagery (Canic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 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 Ae Water-Stained Leaves (Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	ors: of one required: erial Imagery (B7) B9) Yes N Yes N	Salt Crust Aquatic Inv Hydrogen is Dry-Seaso Oxidized R	(B11) vertebrates (B13) Sulfide Odor (C1) in Water Table (C2) Rhizospheres on Liver tilled) of Reduced Iron (Consurface (C7) olain in Remarks) ches): ches):	ving Roots	Secondary Ind Surface So Sparsely V Drainage R Oxidized F Crayfish B Saturation Geomorph FAC-Neut Frost-Hear	icators (minimum of two requoil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled) surrows (C8) Visible on Aerial Imagery (Canic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 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 Ae Water-Stained Leaves (Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	ors: of one required: erial Imagery (B7) B9) Yes N Yes N	Salt Crust Aquatic Inv Hydrogen is Dry-Seaso Oxidized R	(B11) vertebrates (B13) Sulfide Odor (C1) in Water Table (C2) Rhizospheres on Liver tilled) of Reduced Iron (Consurface (C7) olain in Remarks) ches): ches):	ving Roots	Secondary Ind Surface So Sparsely V Drainage R Oxidized F Crayfish B Saturation Geomorph FAC-Neut Frost-Hear	icators (minimum of two requoil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled) surrows (C8) Visible on Aerial Imagery (Canic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F
Type: Clay pan Depth (inches): Ten Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 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 Activation Visible on Activation Visible on Activation Visible on Activation Visible Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream)	ors: of one required: erial Imagery (B7) B9) Yes N Yes N	Salt Crust Aquatic Inv Hydrogen is Dry-Seaso Oxidized R	(B11) vertebrates (B13) Sulfide Odor (C1) in Water Table (C2) Rhizospheres on Liver tilled) of Reduced Iron (Consurface (C7) olain in Remarks) ches): ches):	ving Roots	Secondary Ind Surface So Sparsely V Drainage R Oxidized F Crayfish B Saturation Geomorph FAC-Neut Frost-Hear	icators (minimum of two requoil Cracks (B6) /egetated Concave Surface Patterns (B10) Rhizospheres on Living Root tilled) surrows (C8) Visible on Aerial Imagery (Canic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F

Project/Site: 130 Environmental Park	1	City/County	,: Lockha	rt/Caldwell	Sampling Date: 1	06/19/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandyn					Camping Font.	
Landform (hillslope, terrace, etc.): Depression					e sia	00 (%): 2-4
Subregion (LRR): J - Southwestern Prairies						
						TI: 11/10/00
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to						
Are climatic / hydrologic conditions on the site typical for the	·				,	
Are Vegetation, Soil, or Hydrology				'Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(If ne	eeded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	samplin	g point l	ocations, transects	, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes ✓ I	No					
Hydric Soil Present? Yes ✓ I	No		ne Sampled		No ✓	
Wetland Hydrology Present? Yes	No ✓	With	nin a Wetlar	nd? res	NO <u>*</u>	•
Remarks:						
VEGETATION – Use scientific names of plan	nto	_				
VEGETATION – Ose scientific flames of plan		Dominant	Indicator	Dominance Test work	ahaat.	
Tree Stratum (Plot size: 30'	Absolute <u>% Cover</u>	Species?	Indicator Status	Dominance Test work Number of Dominant Si		
1. Ulmus crassifolia	20	Yes	FAC	That Are OBL, FACW,	or FAC	
2. Prosopis glandulosa	10	Yes	FACU	(excluding FAC-):	3	(A)
3				Total Number of Domin	ant _	
4				Species Across All Stra	ta: <u>5</u>	(B)
15!	30	= Total Co	ver	Percent of Dominant Sp		
Sapling/Shrub Stratum (Plot size: 15') 1. Ulmus crassifolia	40	Yes	FAC	That Are OBL, FACW,	or FAC: 60	(A/B)
2. Diospyros texana	20	Yes	NI	Prevalence Index wor	ksheet:	
3. Prosopis glandulosa	10	No	FACU	Total % Cover of:	Multiply	<u>y by:</u>
4. Castela erecta	5	No	NI	OBL species	x 1 =	
5.				FACW species	x 2 =	
	75	= Total Co	ver	FAC species	x 3 =	
Herb Stratum (Plot size: 5')				FACU species		
1. Eleocharis palustris	90	Yes	OBL	UPL species		
2. Iva annua	_ 10	No	FAC	Column Totals:	(A)	(B)
3				Prevalence Index	= B/A =	
4.				Hydrophytic Vegetation		
5				1 - Rapid Test for F	lydrophytic Vegeta	ation
6				✓ 2 - Dominance Tes		
7		-		3 - Prevalence Inde	x is ≤3.0 ¹	
8				4 - Morphological A	daptations ¹ (Provi	de supporting
9					or on a separate	,
10.		= Total Co	ver	Problematic Hydro	ohytic Vegetation'	(Explain)
Woody Vine Stratum (Plot size: 30') 1)				¹ Indicators of hydric soi be present, unless distu	l and wetland hydr irbed or problemat	ology must lic.
2.				Hydrophytic		
		= Total Co	ver	Vegetation		
% Bare Ground in Herb Stratum 30				Present? Yes	s No	
Remarks:						

Depth Matrix Color (moist) % Color (moist) % Type Loc* Texture Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Histosol (A1) Histosol (A1) Histosol (A2) Black Histo (A3) Histosol (A4) Histosol (A2) Sandy Redox (S5) Hydrogen Sulfide (A4) Stripped Matrix (S6) Hydrogen Sulfide (A4) Stripped Matrix (F2) Stratified Layers (A5) (LRR F, G, H) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (A16) Back Histo (A3) Coast Prairie Redox (A16) (LRR F, G, H) High Plains Depressions (F8) Redox Depressions (F8) Bedox Dark Surface (F7) Coast Prairie Redox (A16) High Plains Depressions (F8) Redox Depressions (F8) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sedox Dark Surface (F7) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Thick Dark Surface (A12) Sandy Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) (MLRA 72 & 73 of LRR H) Wetland Hydrology Indicators:
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stratified Layers (A5) (LRR F) Sandy Mucky Mineral (F1) Stratified Layers (A5) (LRR F) Selected Below Dark Surface (A11) Selected Below Dark Surface (A11) Selected Dark Surface (F6) Sendy Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Sem Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) Restrictive Layer (if present): Type: Clay pan Depth (inches): Five HYDROLOGY Wetland Hydrology Indicators:
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Histic Epipedon (A2) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR F) Depleted Matrix (F2) Loamy Gleyed Matrix (F3) Redox Dark Surface (F6) Poelted Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) High Plains Depressions (F8) Stroke Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Restrictive Layer (if present): Type: Clay pan Depth (inches): Five Hydrology Indicators: HYDROLOGY Mistic Epipedon (A2) Sandy Medox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Dark Surface (S7) (LRR G) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators for Problematic Hydric Soils*: 1 cm Muck (A9) (LRR I, J) Coast Prairie Redox (A16) (LRR F, G, H) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Urles Shallow Dark
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Histic Epipedon (A2) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR F) Depleted Matrix (F2) Loamy Gleyed Matrix (F3) Redox Dark Surface (F6) Poelted Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) High Plains Depressions (F8) Stroke Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Restrictive Layer (if present): Type: Clay pan Depth (inches): Five Hydrology Indicators: HYDROLOGY Mistic Epipedon (A2) Sandy Medox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Dark Surface (S7) (LRR G) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators for Problematic Hydric Soils*: 1 cm Muck (A9) (LRR I, J) Coast Prairie Redox (A16) (LRR F, G, H) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Urles Shallow Dark
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Histic Epipedon (A2) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR F) Depleted Matrix (F2) Loamy Gleyed Matrix (F3) Redox Dark Surface (F6) Poelted Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) High Plains Depressions (F8) Stroke Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Restrictive Layer (if present): Type: Clay pan Depth (inches): Five Hydrology Indicators: HYDROLOGY Mistic Epipedon (A2) Sandy Medox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Dark Surface (S7) (LRR G) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators for Problematic Hydric Soils*: 1 cm Muck (A9) (LRR I, J) Coast Prairie Redox (A16) (LRR F, G, H) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Urles Shallow Dark
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Histic Epipedon (A2) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR F) Depleted Matrix (F2) Loamy Gleyed Matrix (F3) Redox Dark Surface (F6) Poelted Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) High Plains Depressions (F8) Stroke Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Restrictive Layer (if present): Type: Clay pan Depth (inches): Five Hydrology Indicators: HYDROLOGY Mistic Epipedon (A2) Sandy Medox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Dark Surface (S7) (LRR G) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators for Problematic Hydric Soils*: 1 cm Muck (A9) (LRR I, J) Coast Prairie Redox (A16) (LRR F, G, H) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Urles Shallow Dark
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Histic Epipedon (A2) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR F) Depleted Matrix (F2) Loamy Gleyed Matrix (F3) Redox Dark Surface (F6) Poelted Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) High Plains Depressions (F8) Stroke Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Restrictive Layer (if present): Type: Clay pan Depth (inches): Five Hydrology Indicators: HYDROLOGY Mistic Epipedon (A2) Sandy Medox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Dark Surface (S7) (LRR G) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators for Problematic Hydric Soils*: 1 cm Muck (A9) (LRR I, J) Coast Prairie Redox (A16) (LRR F, G, H) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Urles Shallow Dark
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Histic Epipedon (A2) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR F) Depleted Matrix (F2) Loamy Gleyed Matrix (F3) Redox Dark Surface (F6) Poelted Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) High Plains Depressions (F8) Stroke Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Restrictive Layer (if present): Type: Clay pan Depth (inches): Five Hydrology Indicators: HYDROLOGY Mistic Epipedon (A2) Sandy Medox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Dark Surface (S7) (LRR G) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators for Problematic Hydric Soils*: 1 cm Muck (A9) (LRR I, J) Coast Prairie Redox (A16) (LRR F, G, H) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Urles Shallow Dark
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Histic Epipedon (A2) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR F) Depleted Matrix (F2) Loamy Gleyed Matrix (F3) Redox Dark Surface (F6) Poelted Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) High Plains Depressions (F8) Stroke Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Restrictive Layer (if present): Type: Clay pan Depth (inches): Five Hydrology Indicators: HYDROLOGY Mistic Epipedon (A2) Sandy Medox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Dark Surface (S7) (LRR G) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators for Problematic Hydric Soils*: 1 cm Muck (A9) (LRR I, J) Coast Prairie Redox (A16) (LRR F, G, H) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Urles Shallow Dark
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Histic Epipedon (A2) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR F) Depleted Matrix (F2) Loamy Gleyed Matrix (F3) Redox Dark Surface (F6) Poelted Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) High Plains Depressions (F8) Stroke Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Restrictive Layer (if present): Type: Clay pan Depth (inches): Five Hydrology Indicators: HYDROLOGY Mistic Epipedon (A2) Sandy Medox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Dark Surface (S7) (LRR G) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators for Problematic Hydric Soils*: 1 cm Muck (A9) (LRR I, J) Coast Prairie Redox (A16) (LRR F, G, H) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Urles Shallow Dark
Histosol (A1)
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) 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) High Plains Depressions (F16) Wetland Hydrology Indicators: Coast Prairie Redox (A16) (LRR F, G, H) Dark Surface (S7) (LRR G) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Reduced Ve
Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Depleted Below Dark Surface (A11) Per Mucky Mineral (S1) Sundy Mucky Mineral (S1) Per Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Other (Explain in Remarks) Sundy Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) Wetland Hydrology Indicators:
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) Type: Clay pan Depth (inches): High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) Reduced Vertic (F18) Pepthed Barry Surface (F7) Need Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Clay pan Depth (inches): Five Hydric Soil Present? Yes ✓ No Wetland Hydrology Indicators:
Stratified Layers (A5) (LRR F)
Depleted Below Dark Surface (A11)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Send Mucky Peat or Peat (S2) (LRR G, H) Mucky Peat or Peat (S3) (LRR F) Restrictive Layer (if present): Type: Clay pan Depth (inches): Five HYDROLOGY Depleted Dark Surface (F7) Redox Depressions (F8) Migh Plains Depressions (F16) MLRA 72 & 73 of LRR H) MLRA 72 & 73 of LRR H) Mucky Peat or Peat (S3) (LRR F) MLRA 72 & 73 of LRR H) Mucky Peat or Peat (S3) (LRR F) MLRA 72 & 73 of LRR H) Mucky Peat or Peat (S3) (LRR F) Mucky Peat or Peat (S3) (LRR F) MLRA 72 & 73 of LRR H) Mucky Peat or Peat (S3) (LRR F) Mucky Peat or Peat (S2) (LRR G, H) Mucky Peat
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) 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: Clay pan Depth (inches): Five Hydric Soil Present? Yes ✓ No Remarks: HYDROLOGY Wetland Hydrology Indicators:
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):
Clay pan Depth (inches): Five Hydric Soil Present? Yes ✓ No ### Remarks: ### Clay pan Depth (inches): Five Hydric Soil Present? Yes ✓ No #### Remarks:
Restrictive Layer (if present): Type: Clay pan Depth (inches): Five Hydric Soil Present? Yes ✓ No Remarks: HYDROLOGY Wetland Hydrology Indicators:
Type: Clay pan Depth (inches): Five Remarks: HYDROLOGY Wetland Hydrology Indicators:
Depth (inches): Five Hydric Soil Present? Yes ✓ No Remarks: HYDROLOGY Wetland Hydrology Indicators:
HYDROLOGY Wetland Hydrology Indicators:
HYDROLOGY Wetland Hydrology Indicators:
Wetland Hydrology Indicators:
Wetland Hydrology 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)
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):
Saturation Present? Yes No V 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:
Remarks:

Project/Site: 130 Environmental Park		City/Cour	nty: Lockhar	rt/Caldwell	Sampling Date: 06/19/2013	
Applicant/Owner: 130 Environmental Park, LLC	State: TX					
Investigator(s): Troegle, Josh & Littleton, Brandyn						
Landform (hillslope, terrace, etc.): Terrace		•	•	·	e Slope (%): 2-4	
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to				NWI classific		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrologys	-				oresent? Yes <u>√</u> No	
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe	·	
SUMMARY OF FINDINGS – Attach site map						
30MMART OF FINDINGS - Attach site map	Silowing	Sampi	ing point i	- Talisects	, important reatures, etc.	
Hydrophytic Vegetation Present? Yes N	lo 🗸	is	the Sampled	Area		
Hydric Soil Present? Yes N	lo 🗸		ithin a Wetlar			
Wetland Hydrology Present? Yes N	lo <u>▼</u>					
Remarks:						
•						
VEGETATION - Use scientific names of plan	ıts.					
201	Absolute	Domina	ant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30'			s? Status	Number of Dominant S	pecies	
1. Quercus stellata	- 75	Yes	FACU	That Are OBL, FACW, (
2. Prosopis glandulosa	- ²⁵ / ₅₀	No	FACU	(excluding FAC-):	<u>2</u> (A)	
3. Ulmus crassifolia	- 30	Yes	_ FAC	Total Number of Domin Species Across All Stra		
4	150			Species Across Air Stra	ta: <u>6</u> (B)	
Sapling/Shrub Stratum (Plot size: 15'	130	= Total (Cover	Percent of Dominant Sp That Are OBL, FACW, of		
1. Mahonia trifoliolata	10	No	NI		(12)	
2. Ulmus crassifolia	10	No	FAC	Prevalence Index wor		
3. Crataegus spathulata	10	No	FAC	Total % Cover of:		
4. Prosopis glandulosa	25	Yes	FACU		x 1 =	
5					x 2 =	
	55	= Total C	Cover	,	x 3 =	
Herb Stratum (Plot size: 5' 1. Cylindropuntia leptocaulis	5	No	NI		x 4 =	
2. Opuntia engelmannii	30	Yes	NI NI		x 5 = (B)	
3 Nassella leucotricha	60	Yes	NI	Column Totals.	(A) (D)	
				Prevalence Index	= B/A =	
5				Hydrophytic Vegetation		
6				1 - Rapid Test for H	· · · · ·	
7				2 - Dominance Tes		
8				3 - Prevalence Inde		
9				4 - Morphological A	Adaptations ¹ (Provide supporting s or on a separate sheet)	
10					phytic Vegetation ¹ (Explain)	
201	95	= Total 0	Cover	_ · · ·		
Woody Vine Stratum (Plot size: 30') 1. Smilax rotundifolia	40	Yes	FAC	be present, unless distu	I and wetland hydrology must urbed or problematic.	
		103	TAC			
2	40	= Total (Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum		- rotal (20161		s No <u> </u>	
Remarks:			•			

		e to the depth no				or confirm	n the absence of in	dicators.)
Depth (inches)	Matrix Color (moist)	% C	Red Color (moist)	ox Feature %	s Type ¹	Loc ²	Texture	Remarks
(inches) 0-4	10 YR 4/2	100	JOIOI (IIIOISL)		_туре		Sandy Clay	Remarks
	10 11(4/2						——————————————————————————————————————	
¹Type: C=C	concentration, D=De	epletion, RM=Red	luced Matrix, C	S=Covered	d or Coate	d Sand G	rains. ² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all LRR	s, unless othe	erwise not	ed.)			Problematic Hydric Soils ³ :
Histoso	I (A1)		Sandy	Gleyed Ma	atrix (S4)		1 cm Muck	(A9) (LRR I, J)
Histic E	pipedon (A2)		Sandy	Redox (S5	5)		Coast Prairi	e Redox (A16) (LRR F, G, H)
_	istic (A3)			ed Matrix (S	,		_	e (S7) (LRR G)
	en Sulfide (A4)			Mucky Mir				Depressions (F16)
	d Layers (A5) (LRR	•		Gleyed Ma				outside of MLRA 72 & 73)
_	uck (A9) (LRR F, G			ed Matrix (l Dark Surfa	,		Reduced Ve	,
	d Below Dark Surfa ark Surface (A12)	ice (ATT)		ed Dark Su				Material (TF2) w Dark Surface (TF12)
	Mucky Mineral (S1)			Depression				ain in Remarks)
	Mucky Peat or Peat	(S2) (LRR G, H)		lains Depre		16)		drophytic vegetation and
5 cm Mu	ucky Peat or Peat (S3) (LRR F)	(MI	LRA 72 & 1	73 of LRR	H)		rology must be present,
							unless distu	rbed or problematic.
	Layer (if present):							
Type: Co								
Depth (in	ches): Four						Hydric Soil Pres	ent? Yes No ✓
Remarks:								
HYDROLO	GY							ρ
	drology Indicators							
•	cators (minimum of		eck all that ann	lv)			Secondary Inc	dicators (minimum of two required)
	Water (A1)	one required, cir	Salt Crus					
	ater Table (A2)			i (BTT) ivertebrate	c (B13)			Soil Cracks (B6) Vegetated Concave Surface (B8)
Saturation			Hydrogen					Patterns (B10)
	Marks (B1)			on Water T	' '		_	Rhizospheres on Living Roots (C3)
	nt Deposits (B2)			Rhizosphe		ing Roots		
	posits (B3)			not tilled)		ing recots	Crayfish I	
	at or Crust (B4)		•	of Reduce		1)		n Visible on Aerial Imagery (C9)
	posits (B5)			k Surface (,	')		hic Position (D2)
	on Visible on Aeria	Imagery (B7)		plain in Re	,			tral Test (D5)
_	stained Leaves (B9)			, prairi ii r r r c	,,,,,,,,			ave Hummocks (D7) (LRR F)
Field Obser								ave Hammooke (B7) (ERRT)
Surface Wat		Yes No _	/ Denth (ir	rches).		1		
Water Table		Yes No _						
Saturation P		Yes No _					and Hydrology Bro	sent? Yes No ✓
(includes cap		165 140 _	Deptil (ii	iciles)		_ ***	and Hydrology Fre	selltr les No v
	corded Data (stream	m gauge, monitor	ing well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:								
		200						

Project/Site: 130 Environmental Park		City/Cou	_{nty:} Lockha	rt/Caldwell	_ Sampling Date: 06/19/20	013
Applicant/Owner: 130 Environmental Park, LLC					_ Sampling Point: T5-DP5	
Investigator(s): Troegle, Josh & Littleton, Brandy						
•			-		ve Slope (%): 0)-2
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: HmB - Heiden-Wilson complex,						
Are climatic / hydrologic conditions on the site typical for			,	·		
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No _	
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS - Attach site ma				eeded, explain any answ	•	etc.
		Ť				
Hydrophytic Vegetation Present? Yes		Is	the Sampled		,	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No 🗸	w	ithin a Wetlar	nd? Yes	No <u>√</u>	
Remarks:	140_4					
VEGETATION – Use scientific names of pla	ante					
VEGETATION – Ose scientific flames of pla		Domina	ant Indicator	Dominanae Testwee	lesh ant	
Tree Stratum (Plot size: 30'	Absolute <u>% Cover</u>		ant Indicator s? <u>Status</u>	Dominance Test wor		
1				Number of Dominant S That Are OBL, FACW		
2				(excluding FAC-):	(.	(A)
3				Total Number of Domi	nant	
4				Species Across All Str	rata: (E	B)
1.51		= Total C	Cover	Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size: 15')	00	W	EACH		, or FAC: (/	A/B)
1. Prosopis glandulosa	$-\frac{90}{2}$	Yes No	FACU FAC	Prevalence Index wo	rksheet:	
2. Ulmus crassifolia		-	TAC		Multiply by:	
3				1	x 1 =	
4 5.				1	x 2 =	
5	92	= Total (Cover	FAC species	x 3 =	
Herb Stratum (Plot size: 5')		- Total C	Sovei	FACU species	x 4 =	
1. Eupatorium incarnatum	20	No	NI	UPL species	x 5 =	
2. Nassella leucotricha	85	Yes	NI	Column Totals:	(A)	(B)
3				Prevalence Indo	x = B/A =	
4				Hydrophytic Vegetat		
5					Hydrophytic Vegetation	
6				2 - Dominance Te		
7				3 - Prevalence Inc		
8					Adaptations ¹ (Provide suppor	ortina
9				data in Remark	ks or on a separate sheet)	
10				Problematic Hydro	ophytic Vegetation¹ (Explain)	
Woody Vine Stratum (Plot size: 30'	103	= Total (Cover	¹ Indicators of hydric so	oil and wetland hydrology mus	st
1				be present, unless dis	turbed or problematic.	
2.				Hydrophytic		
		= Total (Vegetation	/	
% Bare Ground in Herb Stratum				Present? Y	es No <u> </u>	
Remarks:						

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type Loc² Texture Remarks Type: C=Concentration, D=Deptetion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Deptetion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Deptetion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Deptetion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Deptetion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Deptetion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Deptetion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depteted Matrix, CS=Covered or Coated Sand Grains. Topeth (AS) (IRR) (AS) (IRR) (AS) (IRR) (IR	oils ³ : , G, H)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Sandy Gleyed Matrix (S4) Histosol (A3) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, Galler Bank Surface (S7) (LRR G) Dark Surface (S7) (LRR G) Stratified Layers (A5) (LRR F, Galler Bank Surface (A11) Depleted Below Dark Surface (A11) Depleted Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Type: Depth (inches): Hydric Soil Present? Yes Indicators for Problematic Mydric Soil Present? Yes Indicators of coated Sand Grains. PL=Pore Lining, M=N Indicators of Problematic Hydric Soil Present? Yes Loamy Gleyed Matrix (S4) Indicators of problematic Hydric Soil Present? Yes Indicators of problematic Hydric Soil Present? Yes Loamy Gleyed Matrix (S6) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Loamy	oils ³ : , G, H)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR I, J) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR I, J) Hydrogen Sulfide (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR IG) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR IG) Depleted Matrix (IG) High Plains Depressions (IG) Depleted Below Dark Surface (A11) Redox Dark Surface (IG) Red Parent Material (IG) Thick Dark Surface (A12) Depleted Dark Surface (IG) Redox Depressions (IG) Sandy Mucky Mineral (IG) Redox Depressions (IG) 2.5 cm Mucky Peat or Peat (IG) (LRR IG) High Plains Depressions (IG) Type: Depth (inches): Hydric Soil Present? Yes Hydric Soil Present? Yes	oils ³ : , G, H)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR I, J) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR I, J) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR I) Depleted Matrix (F3) High Plains Depressions (F16) Tom Muck (A9) (LRR IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	oils ³ : , G, H)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR I, J) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR I, J) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR I) Depleted Matrix (F3) High Plains Depressions (F16) Tom Muck (A9) (LRR IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	oils ³ : , G, H)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR I, J) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR I, J) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR I) Depleted Matrix (F3) High Plains Depressions (F16) Tom Muck (A9) (LRR IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	oils ³ : , G, H)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR I, J) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR I, J) Hydrogen Sulfide (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR IG) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR IG) Depleted Matrix (IG) High Plains Depressions (IG) Depleted Below Dark Surface (A11) Redox Dark Surface (IG) Red Parent Material (IG) Thick Dark Surface (A12) Depleted Dark Surface (IG) Redox Depressions (IG) Sandy Mucky Mineral (IG) Redox Depressions (IG) 2.5 cm Mucky Peat or Peat (IG) (LRR IG) High Plains Depressions (IG) Type: Depth (inches): Hydric Soil Present? Yes Hydric Soil Present? Yes	oils ³ : , G, H)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR I, J) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR I, J) Hydrogen Sulfide (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR IG) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR IG) Depleted Matrix (IG) High Plains Depressions (IG) Depleted Below Dark Surface (A11) Redox Dark Surface (IG) Red Parent Material (IG) Thick Dark Surface (A12) Depleted Dark Surface (IG) Redox Depressions (IG) Sandy Mucky Mineral (IG) Redox Depressions (IG) 2.5 cm Mucky Peat or Peat (IG) (LRR IG) High Plains Depressions (IG) Type: Depth (inches): Hydric Soil Present? Yes Hydric Soil Present? Yes	oils ³ : , G, H)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR I, J) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR I, J) Hydrogen Sulfide (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR IG) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR IG) Depleted Matrix (IG) High Plains Depressions (IG) Depleted Below Dark Surface (A11) Redox Dark Surface (IG) Red Parent Material (IG) Thick Dark Surface (A12) Depleted Dark Surface (IG) Redox Depressions (IG) Sandy Mucky Mineral (IG) Redox Depressions (IG) 2.5 cm Mucky Peat or Peat (IG) (LRR IG) High Plains Depressions (IG) Type: Depth (inches): Hydric Soil Present? Yes Hydric Soil Present? Yes	oils ³ : , G, H)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	oils ³ : , G, H)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	oils ³ : , G, H)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	oils ³ : , G, H)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	oils ³ : , G, H)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Stratified Layers (A5) (LRR F) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) Straticive Layer (if present): Type: Depth (inches): Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, F, F) Coast Prairie Redox (A16) (LRR F, F, F) Dark Surface (S7) (LRR G) High Plains Depressions (F16) (LRR H outside of MLRA 72 & & Reduced Vertic (F18) Redox Dark Surface (F6) Pepleted Dark Surface (F7) Redox Depressions (F8) High Plains Depressions (F16) (MLRA 72 & 73 of LRR H) Hydric Soil Present? Yes Hydric Soil Present?	, G, H)
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Straified 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) Type: Depth (inches): Depth (inches): Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F6) Redox Dark Surface (F7) Redox Depressions (F8) MLRA 72 & 73 of LRR H) Sandy Mucky Peat or Peat (S3) (LRR F) Mucky Peat or Peat (S4) (LRR F)	
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) Restrictive Layer (if present): Type: Depth (inches): High Plains Depressions (F16) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Lamb Gleyed Matrix (F3) Reduced Vertic (F18) Reduced Vertic (F18) Lamb Gleyed Matrix (F2) Lamb Gleyed Matrix (F2) Lamb Gleyed Matrix (F2) Lamb Gleyed Matrix (F3) Lamb Gleyed Matr	70 \
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) Restrictive Layer (if present): Type: Depth (inches): Loamy Gleyed Matrix (F2) Depleted Matrix (F2) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Dark Surface (F7) Pepleted Dark Surface (F7) Redox Depressions (F8) High Plains Depressions (F16) (MLRA 72 & 73 of LRR H) Wetland hydrology must be present unless disturbed or problematic. Hydric Soil Present? Yes	70)
1 cm Muck (A9) (LRR F, G, H) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted CS2) (LRR G, H) High Plains Depressions (F16) To cm Mucky Peat or Peat (S3) (LRR F) Redox Dark Surface (F7) Redox Depressions (F8) High Plains Depressions (F16) MLRA 72 & 73 of LRR H) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Pedict Community Peat or Peat (S2) (LRR G, H) Setrictive Layer (if present): Type: Depth (inches): Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Depleted Dark Surface (F7) Pedict Community Peat or Peat (S1) Pedict Community Peat or Peat (S2) (LRR G, H) Pedict Community Surface (F6) Pedict Community Surface (F7)	. 73)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Pedeted Dark Surface (F7) Redox Depressions (F8) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) MLRA 72 & 73 of LRR H) Restrictive Layer (if present): Type: Depth (inches): Depthed Dark Surface (F7) Redox Depressions (F8) High Plains Depressions (F16) MLRA 72 & 73 of LRR H) Wety Shallow Dark Surface (TF12) Medox Depressions (F8) Migh Plains Depressions (F16) Wetland hydrology must be present unless disturbed or problematic. Hydric Soil Present? Yes	
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) 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	
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	
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	nd
Type: Depth (inches): Hydric Soil Present? Yes	
Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes	,
Type: Depth (inches): Hydric Soil Present? Yes	
Depth (inches): 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	vo required)
Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6)	
_ , ,	urface (B8)
	mace (Do)
	a Pooto (C2)
	g Noois (Co)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled)	
Drift Deposits (B3) Crayfish Burrows (C8) Crayfish Burrows (C8)	(00)
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imag	gery (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) (L	_RR F)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inches):	
Water Table Present? Yes No <u>√</u> Depth (inches):	
(includes capillary fringe)	No <u>√</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	No <u> </u>
	No <u>√</u>
Remarks:	No <u>√</u>
	No <u>√</u>
	No <u>√</u>
	No <u>√</u>



Data Point 1 Mesquite Grassland Mosaic



Data Point 1 Mesquite Grassland Mosaic



Data Point 2 Riparian Woods (Cedar Elm/Oak)

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Data Point 2
Riparian Woods (Cedar Elm/Oak)



Data Point 3 Sumpweed Depressions



Data Point 3 Sumpweed Depressions

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Data Point 4
Riparian Woods (Cedar Elm/Oak)



Data Point 4
Riparian Woods (Cedar Elm/Oak)



Data Point 5 Mesquite Grassland Mosaic

T5 – Page 3



Data Point 5
Mesquite Grassland Mosaic