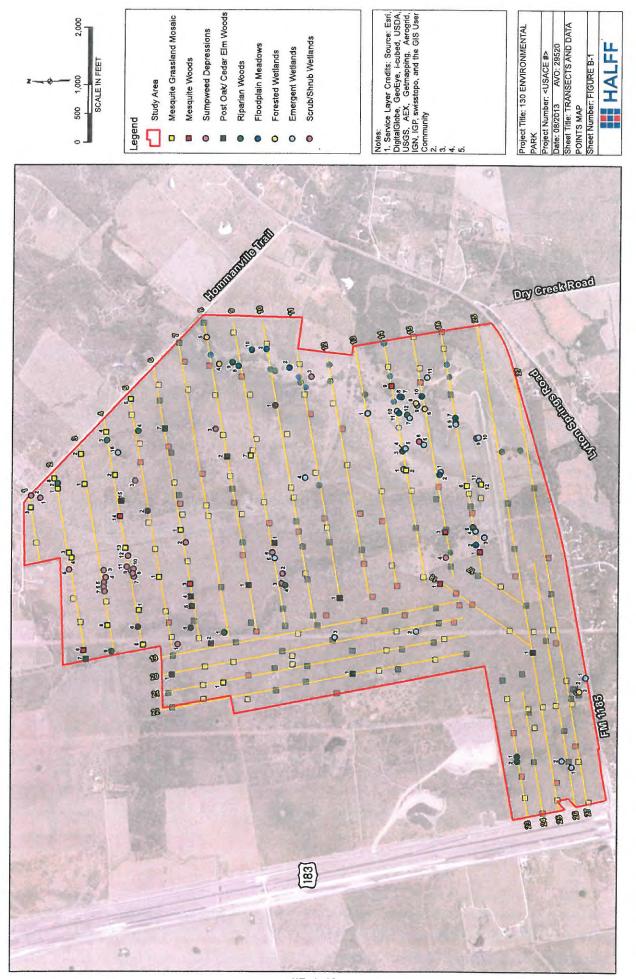
# APPENDIX B WETLAND DATA SHEETS AND SITE PHOTOGRAPHS



IID.1-43

# 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.
- Data point locations were determined by changes between vegetation community types, or in some instances, to demonstrate thorough coverage within a same community type.
- Numbered data points on Figure B-1 represent vegetation communities for which data was collected to compile unique wetland data sheets for that community, m
- 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.
- Unnumbered data points on Figure B-1 represent vegetation communities for which photographs were collected to demonstrate thorough coverage of each transect. 5
- 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. 9
- 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.
- 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

0

- Post Oak/ Cedar Elm Woods
- Riparian Woods
- Floodplain Meadows
- Forested Wetlands
- 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.



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.



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		Citv/Cour	itv: Lockhai	rt/Caldwell	Sampling Date: 06/17/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T1-DP1
Investigator(s): Troegle, Josh & Littleton, Brandyn					Odmping Forms
Landform (hillslope, terrace, etc.): _Depression			•	-	e slang /9/ \: 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 s					resent? Yes 🗸 No
Are Vegetation, Soil, or Hydrology n	aturally pro	blematic?	? (If ne	eded, explain any answer	's in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	sampli	ing point k	ocations, transects,	, important features, etc.
W. J. E. W. J. G. Boom 10				·	
Hydrophytic Vegetation Present? Yes ✓ No. Hydric Soil Present? Yes ✓ No.		ls	the Sampled		
Wetland Hydrology Present? Yes ✓ No.		wi	thin a Wetlar	nd? Yes <u>√</u>	No
Remarks:	<u> </u>				_
Marginal isolated wetland in an upland.					
VEGETATION – Use scientific names of plan	ts.				
Tree Stratum (Piot size: 301 )			nt Indicator ? Status	Dominance Test works	
1				Number of Dominant Sp That Are OBL, FACW, of	
2				(excluding FAC-):	1 (A)
3.				Total Number of Domina	ant
4				Species Across All Strat	
7.		= Total C	over	Percent of Dominant Sp	nacios.
Sapling/Shrub Stratum (Plot size: 30'				That Are OBL, FACW, of	
1. Prosopis glandulosa	10	Yes	FACU	Prevalence Index work	ra ha a ti
2. Mahonia trifoliolata	10	Yes	NI NI		Multiply by:
3. Zanthoxylum clava-herculis	5	Yes	FACU		x 1 =
4. Juniperus virginiana		No	_ UPL		x2=
5	35				x 3 =
Herb Stratum (Plot size: 30'	33	= Total C	over		x 4 =
1. Iva annua	75	Yes	FAC		x 5 =
2. Paspalum dilatatum	10	No	FAC	Column Totals:	(A) (B)
3. Coreopsis tinctoria	25	No	FAC		
4. Eleocharis palustris	25	No	OBL		= B/A =
5. Phanopyrum gymnocarpon	20	No	OBL	Hydrophytic Vegetatio	
6. Carex brevior	20	No	FAC	1 - Rapid Test for H  ✓ 2 - Dominance Test	
7. Sporobolus compositus	35	No	UPL UPL		
8				_	daptations <sup>1</sup> (Provide supporting
9					or on a separate sheet)
10				Problematic Hydrop	ohytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30'	210	= Total C	over	<sup>1</sup> Indicators of hydric soil	and wetland hydrology must
1				be present, unless distu	
2.				Hydrophytic	
			Cover	Vegetation	
% Bare Ground in Herb Stratum				Present? Yes	s <u>√</u> No
Remarks:					
Sapling/shrubs at fringe of depression. Removed SA	AP/shrub t	from don	ninance test		

Sampling Point: T1-DP1

C	റ	Ш	1
v	v	Ш	_

(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-1	10 YR 3/1	100					Clay	Dry
)-6	10 YR 6/1		10 YR 5/8	10	- <del>-</del> -	<u>М</u>	Clay	>50% Cobble
<del></del>	10 111 011				- —		Citay	- 00 /0 CODDIE
		_						
			/≃Reduced Matrix,			Sand G		cation: PL=Pore Lining, M=Matrix.
yarıc Son i: Histosol :		icable to al	I LRRs, unless of	nerwise no ly Gleyed M				for Problematic Hydric Soils <sup>3</sup> :
	ipedon (A2)			ly Redox (S				Muck (A9) ( <b>LRR I, J</b> ) Prairie Redox (A16) ( <b>LRR F, G, H</b> )
_ Black His				oed Matrix (	,			urface (S7) (LRR G)
	n Sulfide (A4)			ny Mucky M				lains Depressions (F16)
_	Layers (A5) ( <b>LRF</b> ck (A9) ( <b>LRR F, G</b>	•	,	ny Gleyed M eted Matrix				R H outside of MLRA 72 & 73)
_	l Below Dark Surfa	. ,		eted Matrix x Dark Surl				ed Vertic (F18) arent Material (TF2)
	rk Surface (A12)			eted Dark S				hallow Dark Surface (TF12)
	ucky Mineral (S1)			x Depression				(Explain in Remarks)
_	lucky Peat or Pea				ressions (F1			of hydrophytic vegetation and
_ 5 cm Mud	cky Peat or Peat (	S3) (LRR F	) (1	VILRA 72 &	73 of LRR	H)		d hydrology must be present, disturbed or problematic.
							4111000	distalled of problematic.
strictive L	ayer (if present)	:						
strictive L	- '						_	
Type: Depth (inc emarks:	hes):		dia nit Surface		allow to co	.hhle <1		Present? Yes <u>√</u> No
Type: Depth (inc emarks:	hes):		dig pit. Surface	layer is sh	allow to co	bble <1		Present? Yes <u>√</u> No
Type: Depth (inc emarks: gnificant co	hes):obble fill in soil.		dig pit. Surface	layer is sh	allow to co	bble <1		Present? Yes <u>√</u> No
Type: Depth (incomarks: pnificant co	hes):obble fill in soil.	Could not	dig pit. Surface	layer is sh	allow to co	bble <1		Present? Yes <u>√</u> No
Type: Depth (incomarks: mificant compression of the compre	hes):obble fill in soil.  GY  rology Indicator	Could not	dig pit. Surface		allow to co	bble <1	inch.	
Type: Depth (incommarks: Inificant common comm	hes):obble fill in soil.  GY  Irology Indicator ators (minimum of	Could not	ed; check all that a		allow to co	bble <1	inch.	
Depth (incommarks: Inificant commarks) DROLOG Striand Hyde Mary Indica Surface V	hes):obble fill in soil.  GY  Irology Indicator ators (minimum of	Could not	ed; check all that al	oply)		bble <1	inch.  Seconda  Surf	uy Indicators (minimum of two requir ace Soil Cracks (B6)
Depth (incomarks: pnificant commarks: pnificant commarks: pnificant commary Indicates and Policies and Polici	hes):	Could not	ed; check all that al Salt Cru Aquatic Hydrogo	oply) ist (B11) Invertebrati en Sulfide C	es (B13) )dor (C1)	bble <1	Seconda Surf Spa V Drai	ury Indicators (minimum of two requinace Soil Cracks (B6) rsely Vegetated Concave Surface (Binage Patterns (B10)
Depth (incomarks: gnificant commarks: gnificant commarks: gnificant commary Indication    But a surface with the surface with	hes):	Could not	ed; check all that all Salt Cru Aquatic Hydrog Dry-Sea	oply) ist (B11) Invertebrate en Sulfide C	es (B13) Odor (C1) Table (C2)		Seconda  Surf Spa V Drai Oxice	ary Indicators (minimum of two requir ace Soil Cracks (B6) rsely Vegetated Concave Surface (B nage Patterns (B10) lized Rhizospheres on Living Roots (
Depth (incomarks: pnificant comarks: pnificant comarks: pnificant comarks: prificant coma	hes):	Could not	ed; check all that al Salt Cru Aquatic Hydrogo Dry-Sea Oxidize	oply) ist (B11) Invertebrate en Sulfide C ason Water d Rhizospho	es (B13) Idor (C1) Table (C2) eres on Livir		Seconda  Surf Spa V Drai Oxic (C3) (w	iry Indicators (minimum of two requir ace Soil Cracks (B6) rsely Vegetated Concave Surface (B nage Patterns (B10) lized Rhizospheres on Living Roots ( here tilled)
Depth (incomarks: pnificant comarks: pnificant coma	hes):	Could not	ed; check all that all  Salt Cru Aquatic Hydrogo Dry-Sea Oxidize	oply) ist (B11) Invertebrate en Sulfide C ison Water d Rhizosphe e not tilled	es (B13) Idor (C1) Table (C2) eres on Livir	g Roots	Seconda  Surf Spa V Drai Oxic (C3) (w Cray	iry Indicators (minimum of two require ace Soil Cracks (86) rsely Vegetated Concave Surface (Binage Patterns (810) lized Rhizospheres on Living Roots ( here tilled) rfish Burrows (C8)
Depth (incomarks: gnificant comarks: grificant depth (incomark) grificant depth (incomarks)	hes):	Could not	ed; check all that al Salt Cru Aquatic Hydrogo Dry-See Oxidize (wher	oply) Ist (B11) Invertebrate on Sulfide Conson Water of Rhizosphe on of tilled te of Reduc	es (B13) Idor (C1) Table (C2) eres on Livir ) ed Iron (C4)	g Roots	Seconda  Surf Spa ✓ Drai Oxic (C3) (w Cas)	ary Indicators (minimum of two require ace Soil Cracks (86) rsely Vegetated Concave Surface (8 nage Patterns (810) lized Rhizospheres on Living Roots ( here tilled) rfish Burrows (C8) tration Visible on Aerial Imagery (C9)
Depth (incommarks: Incommarks: Incommarks: Incommary Indicate Incommar	hes):	Could not	ed; check all that a Salt Cru Aquatic Hydrogo Dry-Sea Oxidize (where	oply) Invertebrate on Sulfide Conson Water of Rhizospho on tilled on of Reduction	es (B13) Idor (C1) Table (C2) eres on Livir ) ed Iron (C4)	g Roots	Seconda  Surf Spa V Drai Oxic (C3) (w Cray Satu V Geo	ary Indicators (minimum of two require ace Soil Cracks (86) rsely Vegetated Concave Surface (Binage Patterns (810) lized Rhizospheres on Living Roots ( here tilled) drish Burrows (C8) aration Visible on Aerial Imagery (C9) morphic Position (D2)
DROLOG  etland Hyd  imary Indica  Surface V  High Water Ma  Sediment  Drift Depod  Algal Mat  Iron Depod  Inundatio	hes):	Could not s: fone require	ed; check all that a Salt Cru Aquatic Hydrogo Dry-Sea Oxidize (where	oply) Ist (B11) Invertebrate on Sulfide Conson Water of Rhizosphe on of tilled te of Reduc	es (B13) Idor (C1) Table (C2) eres on Livir ) ed Iron (C4)	g Roots	Seconda  Surf Spa V Drai Oxic (C3) (w Cray Satu V Geo FAC	iny Indicators (minimum of two required ace Soil Cracks (B6) ace Soil Cracks (B6) ace Surface (Binage Patterns (B10) ace Rhizospheres on Living Roots (here tilled) afish Burrows (C8) aration Visible on Aerial Imagery (C9) arorphic Position (D2)
Type: Depth (incomarks: gnificant comarks: gnificant discomarks: gnificant comarks: gnificant discomarks: gnificant d	hes):	Could not s: fone require	ed; check all that a Salt Cru Aquatic Hydrogo Dry-Sea Oxidize (where	oply) Invertebrate on Sulfide Conson Water of Rhizospho on tilled on of Reduction	es (B13) Idor (C1) Table (C2) eres on Livir ) ed Iron (C4)	g Roots	Seconda  Surf Spa V Drai Oxic (C3) (w Cray Satu V Geo FAC	ary Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (Bi nage Patterns (B10) lized Rhizospheres on Living Roots ( here tilled) drish Burrows (C8) tration Visible on Aerial Imagery (C9) morphic Position (D2)
Type: Depth (incline in a construction of the construction of	hes):	Could not s: fone require I Imagery (E	ed; check all that a Salt Cru Aquatic Hydrogo Dry-Sea Oxidize (where	oply) Invertebrate on Sulfide Conson Water d Rhizosphe on of tilled te of Reductick Surface Explain in Re	es (B13) Odor (C1) Table (C2) eres on Livir ) ed Iron (C4) (C7) emarks)	g Roots	Seconda  Surf Spa  Drai Oxic  (C3)  Cray Satu Geo FAC	any Indicators (minimum of two required ace Soil Cracks (B6) reely Vegetated Concave Surface (B6) rage Patterns (B10) lized Rhizospheres on Living Roots (Concave tilled) rish Burrows (C8) rration Visible on Aerial Imagery (C9) rmorphic Position (D2) -Neutral Test (D5)
Type: Depth (incline in particular in p	hes):	Could not s: fone require I Imagery (E)	ed; check all that all Salt Cru Aquatic Hydroge Dry-Sea Oxidize (wher Presence Thin Mu	oply) Invertebrate on Sulfide Conson Water of Rhizosphe on of tilled on of Reduction Surface Explain in R	es (B13) Odor (C1) Table (C2) eres on Livir ) ed Iron (C4) (C7) emarks)	g Roots	Seconda  Surf Spa  Drai Oxic  (C3)  Cray Satu Geo FAC	any Indicators (minimum of two required ace Soil Cracks (B6) reely Vegetated Concave Surface (B6) rage Patterns (B10) lized Rhizospheres on Living Roots (Concave tilled) rish Burrows (C8) rration Visible on Aerial Imagery (C9) rmorphic Position (D2) -Neutral Test (D5)
Type: Depth (inc emarks: gnificant co  //DROLOG  //DROLOG  //Etland Hyd rimary Indica _ Surface V _ High Wat _ Saturatio _ Water Ma _ Sediment _ Drift Depo _ Algal Mat _ Iron Depo _ Inundatio _ Water-Sta eld Observ urface Wate fater Table Faturation Pre-	hes):	Could not  s: fone require  I Imagery (B)  Yes Yes	ed; check all that all Salt Cru Aquatic Hydrogo Dry-Sea Oxidize (wher Presence Thin Mu 37) Other (B	oply) Invertebrate on Sulfide Conson Water of Reducting the Reduction Responsible for the Reduct	es (B13) Idor (C1) Table (C2) eres on Livir ) ed Iron (C4) (C7) emarks)	g Roots	Seconda  Surf Spa VDrai Oxic (C3) (w Cray Satu VGeo FAC Fros	iny Indicators (minimum of two required ace Soil Cracks (B6) ace Soil Cracks (B6) ace Surface (Binage Patterns (B10) ace Rhizospheres on Living Roots (here tilled) afish Burrows (C8) aration Visible on Aerial Imagery (C9) arorphic Position (D2)
Type: Depth (inclemarks: gnificant comments: gnificant comments in the c	hes):	Could not  s: i one require  I Imagery (B )  Yes Yes Yes	ed; check all that all  Salt Cru Aquatic Hydroge Oxidize (wher Presence Thin Mu 37) Other (B	oply) Intertebrate on Sulfide Conson Water of Reduction Responsible to the Conson Responsible to	es (B13) Idor (C1) Table (C2) eres on Livir ) ed Iron (C4) (C7) emarks)	g Roots	Seconda  Surf Spa VDrai Oxic (C3) (w Satu VGeo FAC Fros	ary Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (B6 nage Patterns (B10) lized Rhizospheres on Living Roots ( here tilled) rish Burrows (C8) gration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Type: Depth (inclemarks: gnificant comments: gnificant comments in the c	hes):	Could not  s: i one require  I Imagery (B )  Yes Yes Yes	ed; check all that all  Salt Cru Aquatic Hydrog Dry-Sea Oxidize (wher Presence Thin Mu Other (B	oply) Intertebrate on Sulfide Conson Water of Reduction Responsible to the Conson Responsible to	es (B13) Idor (C1) Table (C2) eres on Livir ) ed Iron (C4) (C7) emarks)	g Roots	Seconda  Surf Spa VDrai Oxic (C3) (w Satu VGeo FAC Fros	ary Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (Bi nage Patterns (B10) lized Rhizospheres on Living Roots ( here tilled) rish Burrows (C8) gration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Type: Depth (inclemarks: gnificant comments: gnificant comments in the c	hes):	Could not  s: i one require  I Imagery (B )  Yes Yes Yes	ed; check all that all  Salt Cru Aquatic Hydrog Dry-Sea Oxidize (wher Presence Thin Mu Other (B	oply) Intertebrate on Sulfide Conson Water of Reduction Responsible to the Conson Responsible to	es (B13) Idor (C1) Table (C2) eres on Livir ) ed Iron (C4) (C7) emarks)	g Roots	Seconda  Surf Spa VDrai Oxic (C3) (w Satu VGeo FAC Fros	ary Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (Bi nage Patterns (B10) lized Rhizospheres on Living Roots ( here tilled) rish Burrows (C8) gration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		City/Cou	<sub>intv</sub> . Lockhai	rt/Caldwell	_ Sampling Date: 06/17/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T1-DP2
Investigator(s): Troegle, Josh & Littleton, Brandyn				· · · · · · · · · · · · · · · · · · ·	Sampling Folks. 11 512
					YA
Landform (hillslope, terrace, etc.): Depression			*	· · · · · · · · · · · · · · · · · · ·	
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to	5 percent	slopes		NWI classifi	cation:
Are climatic / hydrologic conditions on the site typical for this	s time of ye	ar? Yes	✓ No _	(If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydrologys	significantly	disturbe	d? Are "	'Normal Circumstances"	present? Yes ✓ No
Are Vegetation, Soil, or Hydrology r	naturally pro	blematic	? (If ne	eeded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map				ocations, transect	s, important features, etc
Hadada Ca Vanda Ca Barando a Vanda A	1-			······································	
Hydrophytic Vegetation Present? Yes ✓ N Hydric Soil Present? Yes ✓ N		Is	the Sampled		
Wetland Hydrology Present?		W	rithin a Wetlar	nd? Yes <u>√</u>	No
Remarks:			<del></del>		
Marginal wetland in road drainage.					
marginal mosaria in road dramage.					
VEGETATION - Use scientific names of plan	its.				
201	Absolute	Domin	ant Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size: 30'			s? Status	Number of Dominant S	Species
1. Prosopis glandulosa	10	Yes	FACU	That Are OBL, FACW,	
2				(excluding FAC-):	<u>3</u> (A)
3				Total Number of Domi	•
4	4.0			Species Across All Str	rata: <u>3</u> (B)
Sapling/Shrub Stratum (Plot size: 15'	10	= Total	Cover	Percent of Dominant S	
1. Prosopis glandulosa	10	Yes	FACU	That Are OBL, FACW,	or FAC: 100 (A/B)
2. Celtis laevigata	5	Yes	FAC	Prevalence Index wo	rksheet:
3	- —			Total % Cover of:	Multiply by:
4.				OBL species	x 1 =
5.				FACW species	x 2 =
	15	= Total	Cover	FAC species	x 3 =
Herb Stratum (Plot size: 5 <sup>†</sup> )				1	x 4 =
1. Setaria parviflora	20	No	FAC	UPL species	
2. Sesbania drummondii	50	Yes	FACW	Column Totals:	(A) (B)
3. Cirsium texanum	_ 2	No	NI	Prevalence Inde	x = B/A =
4. Phyla lanceolata	2	No	FACW	Hydrophytic Vegetati	
5. Iva annua	- 35	Yes	FAC		Hydrophytic Vegetation
6. Ambrosia artemisiifolia	- 2	No No	FACU	2 - Dominance Te	
7. Phanopyrum gymnocarpon	- 5	No	OBL OBL	3 - Prevalence Inc	
8. Ambrosia trifida	2	No	FAC	1 —	Adaptations <sup>1</sup> (Provide supporting
9. Eleocharis palustris	_ 20	No	OBL OBL		ks or on a separate sheet)
10	120	-		Problematic Hydro	ophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30'	138	= Total	Cover	Indicators of hydric so	oil and wetland hydrology must
1 Smilax rotundifolia	10	Yes	FAC	be present, unless dist	
2.				Hydrophytic	
	10	= Total	Cover	Vegetation	,
% Bare Ground in Herb Stratum 5				Present? Yo	es No
Remarks:					
Mesquite scrub located at wetland margin; not include	ded in dom	ninance	test.		

Sampling Point: T1-DP2

c	$\sim$	1		
J	v	ı	_	

Depth	cription: (Descri		epth need		ment the ox Feature		or cont	firm the absence	of indicators.)
(inches)	Color (moist)	%	Col	or (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-1	10 YR 3/1	90	10 YF	R 5/ <b>7</b>	10	С	М	Clay	
0-3	10 YR 5/1	60	10 YF	R 6/1	20	D	М		
			5 YR	4/8	20		М		
>4		90						<u> </u>	Gravel
									Oldvei
			-			-			
·									
	oncentration, D=D						ed Sand		cation: PL=Pore Lining, M=Matrix.
	Indicators: (App	licable to a	II LRRs,			-			for Problematic Hydric Soils <sup>3</sup> :
Histosol	, ,			Sandy					Muck (A9) (LRR I, J)
1	pipedon (A2) istic (A3)				Redox (S: d Matrix (:	-			Prairie Redox (A16) (LRR F, G, H) Surface (S7) (LRR G)
1	en Sulfide (A4)				-	neral (F1)			Plains Depressions (F16)
	d Layers (A5) ( <b>LR</b>	RF)			Gleyed M				RR H outside of MLRA 72 & 73)
_	ick (A9) ( <b>LRR F, C</b>	,			ed Matrix (	٠,			ced Verlic (F18)
Deplete	d Below Dark Surf	ace (A11)		Redox	Dark Surf	ace (F6)			arent Material (TF2)
	ark Surface (A12)					urface (F7	)	Very S	Shallow Dark Surface (TF12)
	Mucky Mineral (S1)				Depressio				(Explain in Remarks)
_	Mucky Peat or Pea					essions (F			of hydrophytic vegetation and
s cm ML	icky Peat or Peat	(53) ( <b>LRR F</b>	')	(Mr	.KA / Z &	73 of LRF	<b>(H</b> )		d hydrology must be present, disturbed or problematic.
Restrictive	Layer (if present)	:				•		uniess	disturbed of problematic.
Type: Gr									
Depth (in								Hydric Soil	Present? Yes ✓ No
Remarks:	,								
HYDROLO									
Wetland Hyd	drology Indicator	s:						<u>.                                    </u>	****
Primary India	cators (minimum o	f one requir	ed; check	all that app	ly)			<u>Seconda</u>	ary Indicators (minimum of two required)
Surface	Water (A1)			_ Salt Crust	. ,			Sur	face Soil Cracks (B6)
	iter Table (A2)		-	_ Aquatic In				•	rsely Vegetated Concave Surface (B8)
Saturation	• /		_	_ Hydrogen					inage Patterns (B10)
	arks (B1)		_	_ Dry-Seaso		٠.			dized Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		_	_ Oxidized I			ing Roo		/here tilled)
	oosits (B3)			•	not tilled)				yfish Burrows (C8)
	at or Crust (B4)		_	_ Presence		,	4)		uration Visible on Aerial Imagery (C9)
·	osits (B5)			_ Thin Muck					omorphic Position (D2)
_	on Visible on Aeria	,	37) _	_ Other (Ex	plain in Re	emarks)			C-Neutral Test (D5)
Field Observ	tained Leaves (B9	')					<del></del>	Fros	st-Heave Hummocks (D7) (LRR F)
		V	N /	Donath //o	1				
Surface Wate				Depth (in					
Water Table				Depth (in					,
Saturation Proceeds (includes cap		Yes	No <u>▼</u>	Depth (in	ches):		_   W	etland Hydrolog	y Present? Yes ✓ No
	corded Data (strea	ım gauge, n	onitorino	well, aerial	photos, pr	evious ins	pection	s), if available:	
	•	,		•				**	
Remarks:							···		

Project/Site: 130 Environmental Park		City/C	ounty:	Lockha	rt/Caldwell	_ Sampling I	Date: 06/1	7/2013
Applicant/Owner: 130 Environmental Park, I					State: TX			
Investigator(s): Troegle, Josh & Littleton, Br								
Landform (hillslope, terrace, etc.): None						ve	Slope (%	): 0-1
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: WgC - Wilson gravelly loa								
Are climatic / hydrologic conditions on the site typic								
	•					-	/	<b>N</b> 1.
Are Vegetation, Soil, or Hydrology					"Normal Circumstances"			NO
Are Vegetation, Soil, or Hydrology _	naturally pro	blema	atic?	(If ne	eeded, explain any answ	ers in Remar	ks.)	
SUMMARY OF FINDINGS – Attach site	e map showing	sam	pling	point l	ocations, transect	s, importa	nt featur	es, etc.
Hydrophytic Vegetation Present? Yes	No <u>√</u>		la dla a	Cample	4 8			
Hydric Soil Present? Yes	No <del>✓</del> No <del>✓</del>			Sampleo n a Wetlai		No. V	/	
Wetland Hydrology Present? Yes	No <u>√</u>		WILLIII	i a wellai	iiu: 165	NO _		
Remarks:	· ·							
<u>,</u>								
<b>VEGETATION</b> – Use scientific names of	of plants.							
9.01	Absolute	Dom	ninant	Indicator	Dominance Test wor	ksheet:		
Tree Stratum (Plot size: 30' )	<u>% Cover</u>	Spec	cies?	Status	Number of Dominant	Species		
1			<u> </u>		That Are OBL, FACW (excluding FAC+):	, or FAC 0	l	(0)
2			<u> </u>		(excluding FAC-).			_ (A)
3					Total Number of Dom		3	(D)
4					Species Across All St	rata: <u>~</u>	,	_ (B)
Sapling/Shrub Stratum (Plot size: 15'		= Tola	al Cove	er	Percent of Dominant S		1	(4.45)
		Yes		FACU	That Are OBL, FACW	, or FAC:	,	_ (A/B)
2	<del></del>				Prevalence Index wo	rksheet:		
3.					Total % Cover of:		Multiply by:	
4.					OBL species			
5.					FACW species			
	40	= Tota	al Cove	 er	FAC species			
Herb Stratum (Plot size: 5'					FACU species			
1. Monarda citriodora	60	Yes		NI	UPL species			
2. Nassella leucotricha	15 50	No Yes		NI NI	Column Totals;	(A)		(B)
3. Amphiachyris dracunculoides					Prevalence Inde	x = B/A =		
4					Hydrophytic Vegetat			
5					1 - Rapid Test for	Hydrophytic	Vegetation	
6					2 - Dominance Te	est is >50%		
7					3 - Prevalence Inc	dex is ≤3.0¹		
8 9					4 - Morphological	Adaptations <sup>1</sup>	(Provide su	pporting
10					data in Remar			
10.			al Cove		Problematic Hydr	opnytic Veget	tation' (Expl	ain)
Woody Vine Stratum (Plot size: 30'	_)	, , , ,			<sup>1</sup> Indicators of hydric se			must
1					be present, unless dis	turbed or pro	blematic.	
2					Hydrophytic			
		= Tota	al Cove	er	Vegetation Present? Y	es	No. √	
% Bare Ground in Herb Stratum					1 resent I			
Remarks:								
								-

SOIL Sampling Point: T1-DP3 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Texture <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ Sandy Gleyed Matrix (S4) \_\_\_ 1 cm Muck (A9) (LRR I, J) \_\_\_ Sandy Redox (S5) Histic Epipedon (A2) \_\_\_ Coast Prairie Redox (A16) (LRR F, G, H) \_\_\_ Stripped Matrix (S6) \_\_\_ Black Histic (A3) \_\_\_ Dark Surface (S7) (LRR G) \_\_\_ Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) \_\_\_ 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 Verlic (F18) \_\_\_ Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) Thick Dark Surface (A12) \_\_\_ Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) \_\_\_ Redox Depressions (F8) Other (Explain in Remarks) \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_\_\_ High Plains Depressions (F16) <sup>3</sup>Indicators of hydrophytic vegetation and \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): \_ Hydric Soil Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) \_\_\_ Surface Water (A1) \_\_\_ Salt Crust (B11) \_\_\_ Surface Soil Cracks (B6) \_\_\_ High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_\_ Saturation (A3) Hydrogen Sulfide Odor (C1) \_\_ Drainage Patterns (B10) Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) 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) \_\_\_ Saturation Visible on Aerial Imagery (C9) Presence of Reduced Iron (C4) \_\_\_ Iron Deposits (B5) \_\_ Thin Muck Surface (C7) \_\_\_ Geomorphic Position (D2) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) \_\_\_ Frost-Heave Hummocks (D7) (LRR F)

Field Observations: Surface Water Present?

Water Table Present?

(includes capillary fringe)

Saturation Present?

Remarks:

Wetland Hydrology Present? Yes \_\_\_\_\_ No ✓

Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_

Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches); \_\_\_

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

Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_\_\_



Data Point 1 Sumpweed Depressions



Data Point 1 Sumpweed Depressions



Data Point 2 Sumpweed Depressions



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		City/Co	ounty:	Lockha	rt/Caldwell	Sampling Date:	06/17/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandyr						· •	
Landform (hillstope, terrace, etc.): Hillstope						Slo	ope (%): 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
-					eeded, explain any answe	,	
SUMMARY OF FINDINGS – Attach site map	showing	sam	pling	point I	ocations, transects	s, important fo	eatures, etc.
Hydrophytic Vegetation Present? Yes	No <u>√</u>		le the	Sampleo	1 Aroa		
Hydric Soil Present? Yes	No <u>√</u>			a Wetla		No <u>√</u>	
Wetland Hydrology Present? Yes	No <u> </u>		***************************************	i a vvena	105		_
Remarks:	,						
VECETATION Has a significances of plan	_4_						
VEGETATION - Use scientific names of plan		Dami	lumus 1		Dominance Test wor	lea Barres	
Tree Stratum (Plot size: 30'	Absolute <u>% Cover</u>			ndicator Status	Number of Dominant S		
1. Prosopis glandulosa	5	Yes		FACU	That Are OBL, FACW,	or FAC	
2.					(excluding FAC-):	0	(A)
3					Total Number of Domin	nant	
4					Species Across All Stra	ata: <u>4</u>	(B)
1.5	5	= Tota	al Cove	er	Percent of Dominant S	pecies	
Sapling/Shrub Stratum (Plot size: 15')	40	Voc		EACII	That Are OBL, FACW,		(A/B)
1. Prosopis glandulosa	5	Yes No		FACU NI	Prevalence Index wo	rksheet:	
2. Mahonia trifoliolata		- 140	<del></del>	141	Total % Cover of:		ly by:
3					OBL species		
4	<del></del>	. ——			FACW species	x 2 =	
5	45	- Tota	al Cove		FAC species	x 3 =	<u>.                                    </u>
Herb Stratum (Plot size: 5'		- 1012	ai Cove	;1	FACU species	x 4 =	<u> </u>
1. Opuntia engelmannii	25	Yes		NI		x 5 =	
2. Nassella leucotricha	75	Yes		NI	Column Totals:	(A)	(B)
3. Cylindropuntia leptocaulis	_ 5	No		NI	Prevalence Indo	k = B/A =	
4. Coreopsis tinctoria	15	No		FAC	Hydrophytic Vegetati		
5. Aristida purpurea	_ 5	No		NI	1 - Rapid Test for		tation
6					2 - Dominance Te		tation
7					3 - Prevalence Inc		
8					4 - Morphological	Adaptations <sup>1</sup> (Prov	vide supporting
9		-			data in Remark	s or on a separate	sheet)
10	125				Problematic Hydro	phytic Vegetation	<sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30')	123	_=   Ota	al Cove	er	<sup>1</sup> Indicators of hydric so	oil and wetland hyd	frology must
1					be present, unless dist	urbed or problema	atic.
2.					Hydrophytic		
		= Tota		er	Vegetation		/
% Bare Ground in Herb Stratum					Present? Ye	es No_ <u>v</u>	
Remarks:							

SOIL Sampling Point: T2-DP1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Texture <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ 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) \_\_\_ High Plains Depressions (F16) 3Indicators of hydrophytic vegetation and \_ 5 cm Mucky Peat or Peat (\$3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) \_\_\_ Surface Water (A1) Salt Crust (B11) \_\_\_ Surface Soil Cracks (B6) \_\_\_ High Water Table (A2) \_\_\_ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) \_\_\_ Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) \_\_\_ Drift Deposits (B3) (where not tilled) \_\_ Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) \_\_\_ Iron Deposits (B5) \_\_ Thin Muck Surface (C7) \_\_ Geomorphic Position (D2) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) \_\_\_ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_ No \_\_\_ Depth (inches): \_\_\_ Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_\_ Water Table Present?

Saturation Present?

Remarks:

(includes capillary fringe)

Wetland Hydrology Present? Yes No ✓

Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_\_

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

Project/Site: 130 Environmental Park		City/Cou	<sub>inty:</sub> Lockha	rt/Caldwell	Sampling Date: 06/	17/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T2-	
Investigator(s): Troegle, Josh & Littleton, Brandy	/n					
Landform (hillslope, terrace, etc.): Drainage		Local re	elief (concave,	convex, none): Conca	ave Slope (	%); <b>2</b> -5
Subregion (LRR): J - Southwestern Prairies						·
Soil Map Unit Name: WgC - Wilson gravelly loam, 1					-	
Are climatic / hydrologic conditions on the site typical for						
Are Vegetation, Soil, or Hydrology	-				" present? Yes ✓	No
Are Vegetation, Soil, or Hydrology				eeded, explain any ansv		
SUMMARY OF FINDINGS – Attach site ma				-	·	ıres, etc.
Hydrophytic Vegetation Present? Yes	No ✓		4.0.1.			
Hydric Soil Present? Yes			s the Sampled vithin a Wetlar		No <u>√</u>	
Wetland Hydrology Present? Yes		<b>'</b>	villilli a vveliai	iu? res	NO <u>*</u>	
Remarks:		•				
VEGETATION – Use scientific names of pl	ants.					
	Absolute	Domin	ant Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plot size: 30')			es? Status	Number of Dominant	Species	
1. Quercus virginiana	35	Yes	FACU	That Are OBL, FACW (excluding FAC-):	/, or FAC 2	(4)
2. Fraxinus texensis		No	— NI	(excluding FAC=).	<del>-</del>	(A)
3. Ulmus crassifolia	15	Yes Yes	FACU	Total Number of Dom		(D)
4. <u>Prosopis glandulosa</u>	70			Species Across All St		(B)
Sapling/Shrub Stratum (Plot size: 15'	70	= Total	Cover	Percent of Dominant That Are OBL, FACW		(A/B)
1. Ulmus crassifolia	30	Yes	FAC			(A/B)
2. Crataegus spathulata	10	No	FAC	Prevalence Index w		
3. Prosopis glandulosa	40	Yes	FACU	Total % Cover of	· · ·	
4. Mahonia trifoliolata	10	No	NI	1	x 1 =	
5					x 2 =	
5'	90	= Total	Cover		x3=	
Herb Stratum (Plot size: 5' )  1 Nassella leucotricha	75	Yes	NI		x 4 =	
2 Rudbeckia hirta	${20}$	Yes	FACU		x5= (A)	—— (B)
3				Ooldinii Votals.	(^)	(B)
4				Prevalence Inde	ex = B/A =	
5.				Hydrophytic Vegeta	tion Indicators:	
6					r Hydrophytic Vegetatior	1
7.				2 - Dominance T		
8.				3 - Prevalence In		
9					l Adaptations¹ (Provide s rks or on a separate she	
10.					rophytic Vegetation <sup>1</sup> (Ex	•
	95	= Total				
Woody Vine Stratum (Plot size: 30' )  1 Smilax rotundifolia	40	Yes	FAC		soil and wetland hydrolog sturbed or problematic.	jy must
2.				Hydrophytic		
% Bare Ground in Herb Stratum	40	= Total	Cover	Vegetation	/es No_ <u>√</u>	_
Remarks:				1		

Sampling Point: T2-DP2 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) % Type¹ Loc² Texture <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 
<sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ Sandy Gleyed Matrix (S4) Histosol (A1) \_\_\_ 1 cm Muck (A9) (LRR I, J) \_\_\_ Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) \_\_\_ Black Histic (A3) \_\_\_ Stripped Matrix (S6) Dark Surface (S7) (LRR G) \_\_\_ Hydrogen Sulfide (A4) \_\_\_ Loamy Mucky Mineral (F1) High Plains Depressions (F16) \_\_\_ Stratified Layers (A5) (LRR F) \_\_\_ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) \_\_\_ Depleted Matrix (F3) \_\_\_ 1 cm Muck (A9) (LRR F, G, H) Reduced Vertic (F18) \_\_\_ Redox Dark Surface (F6) Depleted Below Dark Surface (A11) \_\_ Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) \_\_\_ Very Shallow Dark Surface (TF12) Thick Dark Surface (A12) \_\_\_ Sandy Mucky Mineral (S1) \_\_\_ Redox Depressions (F8) Other (Explain in Remarks) \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_\_\_ High Plains Depressions (F16) 3Indicators of hydrophytic vegetation and 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) \_\_\_ Surface Water (A1) \_\_ Salt Crust (B11) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) \_\_ High Water Table (A2) Aquatic Invertebrates (B13) \_\_\_ 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); \_\_

US Army Corps of Engineers

Water Table Present?

(includes capillary fringe)

Saturation Present?

Remarks:

Wetland Hydrology Present? Yes No ✓

Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_\_

Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_\_

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

Project/Site: 130 Environmental Park	1	City/Count	v: Lockha	rt/Caldwell	Sampling Date: <u>06/17/2013</u>
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 Hydrology s					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe	<del></del>
SUMMARY OF FINDINGS – Attach site map				•	•
SOMMANT OF FINDINGS - Attach site map	Silowing	Sampin	ng pont i	ocations, transects	s, important leatures, etc.
Hydrophytic Vegetation Present? Yes N	lo 🗸	ls t	he Sampled	l Area	
Hydric Soil Present? Yes N	lo 🗸		hin a Wetlar		No_ <u>√</u>
Wetland Hydrology Present? Yes N	lo 🗸				
Remarks:					
VEGETATION – Use scientific names of plan	ıts.				
		Dominar	nt Indicator	Dominance Test work	ksheet:
Tree Stratum (Plot size: 30'	% Cover	Species:	? Status	Number of Dominant S	Species
1				That Are OBL, FACW,	^
2				(excluding FAC-):	<u>U</u> (A)
3				Total Number of Domir	
4				Species Across All Stra	ata: <u>3</u> (B)
Sapling/Shrub Stratum (Plot size: 15' )		= Total Co	over	Percent of Dominant S That Are OBL, FACW,	
1. Prunus mexicana	20	N0	NI	That Are OBL, FACVV,	or FAC: $\underline{0}$ (A/B)
2. Diospyros texana	20	No	NI	Prevalence Index wor	
3. Prosopis glandulosa	80	Yes	FACU		Multiply by:
4					x 1 =
5					x 2 =
5'	120	= Total Co	over	1	x 3 =
Herb Stratum (Plot size: 5'  1 Opuntia engelmannii	15	No	NI	1.00	x 4 = x 5 =
2. Ambrosia artemisiifolia	40	Yes	FACU	1 '	(A) (B)
3. Amphiachyris dracunculoides	10	No	NI	Coldinii Totais.	(N) (D)
4 Cylindropuntia leptocaulis	5	No	NI		c = B/A =
5. Nassella leucotricha	30	Yes	NI	Hydrophytic Vegetati	on Indicators:
6.				I —	Hydrophytic Vegetation
7				2 - Dominance Tes	
8				3 - Prevalence Ind	
9				4 - Morphological /	Adaptations <sup>1</sup> (Provide supporting is or on a separate sheet)
10					phytic Vegetation <sup>1</sup> (Explain)
201	100	= Total Co	over		
Woody Vine Stratum (Plot size: 30'				be present, unless dist	il and wetland hydrology must urbed or problematic.
1					
2		- T-4-1 C		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 15		= Total Co	over		es No <u> </u>
Remarks:				•	·

Sampling Point: T2-DP3 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Texture <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 
<sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ Sandy Gleyed Matrix (S4) Histosol (A1) \_\_\_ 1 cm Muck (A9) (LRR I, J) \_\_\_ Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) \_\_\_ Black Histic (A3) \_\_\_ Stripped Matrix (S6) Dark Surface (S7) (LRR G) \_\_\_ Hydrogen Sulfide (A4) \_\_\_ Loamy Mucky Mineral (F1) High Plains Depressions (F16) \_\_\_ Stratified Layers (A5) (LRR F) \_\_\_ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) \_\_\_ 1 cm Muck (A9) (LRR F, G, H) \_\_\_ Depleted Matrix (F3) Reduced Vertic (F18) \_\_\_ Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) \_\_\_ Very Shallow Dark Surface (TF12) Thick Dark Surface (A12) \_\_\_ Redox Depressions (F8) \_\_ Sandy Mucky Mineral (S1) Other (Explain in Remarks) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_\_\_ High Plains Depressions (F16) 3Indicators of hydrophytic vegetation and 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): Yes Hydric Soil Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) \_\_\_ Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) \_\_ Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Aquatic Invertebrates (B13) \_\_\_ 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:

Project/Site: 130 Environmental Park		Citv/Cou	<sub>intv:</sub> Lockha	rt/Caldwell	_ Sampling Date: 06/17/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T2-DP4
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Flatland					Slone (%): 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				· · · · ·	•
	. /				
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N	10 <del>V</del>	1	s the Sampled		,
Wetland Hydrology Present? Yes N	10 <del>1</del>	٧	vithin a Wetlai	nd? Yes	No <u>√</u>
Remarks:				· ·.	· .
VEGETATION – Use scientific names of plan	ıts.				
Tree Stratum (Plot size: 30' )	Absolute		ant Indicator	Dominance Test work	ksheet:
. Coltin lagvigata	% Cover	Yes	es? Status FAC	Number of Dominant S That Are OBL, FACW,	
2. Prosopis glandulosa	60	Yes	FACU	(excluding FAC-):	3 (A)
3				Total Number of Domi	nant
4				Species Across All Str	
	90	= Total	Cover	Percent of Dominant S	Snecies
Sapling/Shrub Stratum (Plot size: 15')				That Are OBL, FACW,	
1. Quercus virginiana	_ 50	Yes	FACU	Prevalence Index wo	rkshoot:
2. Mahonia trifoliolata	30	No	NO	Total % Cover of:	
3					x 1 =
4		. ——			x 2 =
5	80	= Total	Cover	FAC species	x 3 =
Herb Stratum (Plot size: 51		_ 10(a)	00461	FACU species	x 4 =
1. Verbesina alternifolia	25	Yes	FAC	UPL species	x 5 =
2. Cylindropuntia leptocaulis	_ 5	No	NI	Column Totals:	(A) (B)
3. Eupatorium incarnatum		Yes	FAC	Prevalence Index	x = B/A =
4				Hydrophytic Vegetati	
5				1	Hydrophytic Vegetation
6				2 - Dominance Te	- , ,
7				3 - Prevalence Inc	lex is ≤3.0 <sup>1</sup>
8 9			<del></del>		Adaptations <sup>1</sup> (Provide supporting
10.					(s or on a separate sheet)
10.	90	= Total	Cover	Problematic Hydro	ophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30' )		. 10101		¹Indicators of hydric so	il and wetland hydrology must
1. Ipomoea pandurata	_ 20	Yes	FACU	be present, unless dist	urbed or problematic.
2				Hydrophytic	
% Bare Ground in Herb Stratum 20	20	= Total	Cover	Vegetation Present? Ye	es No_ <u>√</u>
Remarks:					
Troilla.					

SOIL Sampling Point: T2-DP4

Depth	cription, (Describ Matrix	e to the depth in	eeded to document the indicator or on the Redox Features	confirm the absence of indicators.)	
(inches)	Color (moist)	%C	Color (moist) % Type <sup>1</sup> I	_oc <sup>2</sup>	
0-8	10 YR 4/2	80		Sandy clay	
	10 YR 5/4	20		Sandy clay	
				<del></del> -	
			<del></del>		
			uced Matrix, CS=Covered or Coated S		
-		icable to all LRR	s, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol	' '		Sandy Gleyed Matrix (S4)	1 cm Muck (A9) (LRR I, J)	
	pipedon (A2) istic (A3)		Sandy Redox (S5) Stripped Matrix (S6)	Coast Prairie Redox (A16) (LRR F, G, H	)
	en Sulfide (A4)		Loamy Mucky Mineral (F1)	Dark Surface (S7) ( <b>LRR G</b> ) High Plains Depressions (F16)	
	d Layers (A5) ( <b>LRR</b>	! F)	Loamy Gleyed Matrix (F2)	(LRR H outside of MLRA 72 & 73)	
	ıck (A9) ( <b>LRR F, G</b>		Depleted Matrix (F3)	Reduced Vertic (F18)	
	d Below Dark Surfa	ice (A11)	Redox Dark Surface (F6)	Red Parent Material (TF2)	
	ark Surface (A12)		Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12)	
	Mucky Mineral (S1) Mucky Peat or Peat	(S2) (LPR G H)	<ul><li>Redox Depressions (F8)</li><li>High Plains Depressions (F16)</li></ul>	Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and	
	icky Peat or Peat (		(MLRA 72 & 73 of LRR H)		
	.,	, (	(,	unless disturbed or problematic.	
Restrictive I	Layer (if present):				
Type:					
Depth (inc	ches):			Hydric Soil Present? Yes No _✓	
Remarks:					
HYDROLO	GY		™ · · · · · · · · · · · · · · · · · · ·		
Wetland Hyd	drology Indicators	;;		<del></del>	
Primary India	cators (minimum of	one required; che	eck all that apply)	Secondary Indicators (minimum of two reg	uired)
Surface	Water (A1)		Salt Crust (B11)	Surface Soil Cracks (B6)	
High Wa	ter Table (A2)		Aquatic Invertebrates (B13)	Sparsely Vegetated Concave Surface	(B8)
Saturatio	on (A3)		Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)	` '
Water M	arks (B1)		Dry-Season Water Table (C2)	Oxidized Rhizospheres on Living Root	is (C3)
Sedimer	nt Deposits (B2)		Oxidized Rhizospheres on Living	Roots (C3) (where tilled)	
Drift Dep	osits (B3)		(where not tilled)	Crayfish Burrows (C8)	
	it or Crust (B4)		Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (0)	39)
	osits (B5)		Thin Muck Surface (C7)	Geomorphic Position (D2)	
	on Visible on Aerial	lmagery (B7)	Other (Explain in Remarks)	FAC-Neutral Test (D5)	
	tained Leaves (B9)		<u>, , , , , , , , , , , , , , , , , , , </u>	Frost-Heave Hummocks (D7) (LRR F	)
Field Observ					
Surface Wate			Depth (inches):		
Water Table			Depth (inches):		,
Saturation Pr (includes cap	esent? sillary fringe)	Yes No <u>▼</u>	Depth (inches):	Wetland Hydrology Present? Yes No _	
		n gauge, monitori	ng well, aerial photos, previous inspec	tions), if available:	
			·		
Remarks:					

Project/Site: 130 Environmental Park		City/Co	<sub>ounty:</sub> Lockhai	rt/Caldwell	_ Sampling Date: 0	6/17/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandy					_ ( 3 _	
Landform (hillstope, terrace, etc.): Depression					ve <sub>Slope</sub>	- (%): 0-1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: WgC - Wilson gravelly loam, 1						,
•						
Are climatic / hydrologic conditions on the site typical for					_	
Are Vegetation, Soil, or Hydrology				'Normal Circumstances"		No
Are Vegetation, Soil, or Hydrology	_ naturally pro	blema	tic? (If ne	eeded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	p showing	sam	pling point l	ocations, transect	s, important fea	tures, etc.
Hydrophytic Vegetation Present? Yes ✓	No					
Hydric Soil Present? Yes	No <b>√</b>		Is the Sampled		No <u>√</u>	
Wetland Hydrology Present? Yes	No <u></u> ✓		within a Wetlar	na? Yes	No <u>▼</u>	
Remarks:	<u>-</u>	I			_	
VEGETATION – Use scientific names of pl	ants					
VEGETATION - 030 Solemano mantos of pr	Absolute	Dom	inant Indicator	Dominance Test wor	ksheet:	
<u>Tree Stratum</u> (Plot size: 5'	% Cover		cies? Status	Number of Dominant S		
1				That Are OBL, FACW,	or FAC	(4)
2				(excluding FAC-):	1	(A)
3				Total Number of Domi		/D1
4				Species Across All Str	rata: <u>'</u>	(B)
Sapling/Shrub Stratum (Plot size: 5')		= Tota	al Cover	Percent of Dominant S That Are OBL, FACW,		(A/B)
1				That Are OBL, FACW,	, or FAC	(A/B)
2				Prevalence Index wo		
3.					Multiply	
4				OBL species		
5				FACW species		
	-	= Tota	al Cover	FACULTARIA		
Herb Stratum (Plot size: 5' )	85	Yes	FAC	FACU species		
2 Phyla lanceolata	25	No	FACW	UPL species  Column Totals:		(R)
3. Phanopyrum gymnocarpon	10	No	OBL	Odiamin Totals.	(^)	(0)
4. Carex brevior	10	No	FAC	Prevalence Inde	x = B/A =	
5. Setaria parviflora	5	No	FAC	Hydrophytic Vegetat	ion Indicators:	
6. Eleocharis palustris	25	No	OBL	1 - Rapid Test for		ion
7				✓ 2 - Dominance Te		
8				3 - Prevalence Inc		
9.					Adaptations <sup>1</sup> (Provid ks or on a separate s	
10				Problematic Hydro	•	,
51	160	= Tota	al Cover			
Woody Vine Stratum (Plot size: 5' )				<sup>1</sup> Indicators of hydric so be present, unless dis		
1				Hydrophytic		
2			al Cover	Vegetation		
% Bare Ground in Herb Stratum		- 100	ai Oover	Present? Y	es_✓ No	
Remarks:					, , , , , , , , , , , , , , , , , , ,	-

Profile Des	cription: (Describ	e to the depth ne	eded to docui	ment the ir	ndicator	or confirn	n the absence of in	dicators.)
Depth (inches)	Matrix			x Features		12	T	
(inches) 0-5	Color (moist) 10 YR 2/1		olor (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture Clay	Remarks
	•							
5-8	10 YR 3-1						Clay	
								-
			_ :				<del></del>	
			<u>-</u>					
		epletion, RM=Redι				d Sand Gr	rains. <sup>2</sup> Locatior	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (App	licable to all LRRs	, unless othe	rwise note	d.)			Problematic Hydric Soils <sup>3</sup> :
Histoso	• •		Sandy (	Gleyed Mat	trix (S4)			(A9) ( <b>LRR I, J</b> )
	pipedon (A2)			Redox (S5)			Coast Prairi	ie Redox (A16) ( <b>LRR F, G, H</b> )
	istic (A3)			d Matrix (Se				e (S7) ( <b>LRR G</b> )
	en Sulfide (A4)	3 E)		Mucky Mine	, ,			Depressions (F16)
_	d Layers (A5) ( <b>LRF</b> uck (A9) ( <b>LRR F, G</b>	•		Gleyed Ma d Matrix (F				outside of MLRA 72 & 73)
. —	d Below Dark Surf	. ,		o Mairix (F Dark S <b>u</b> rfad			Reduced Ve	ertic (F18) Material (TF2)
	ark Surface (A12)	(****)		d Dark Sur	٠,,			w Dark Surface (TF12)
Sandy N	Mucky Mineral (S1)			Depression	, ,			ain in Remarks)
2.5 cm l	Mucky Peat or Pea	t (S2) ( <b>LRR G, H</b> )	High Pla	ains Depres	ssions (F	16)		drophytic vegetation and
5 cm Mi	ucky Peat or Peat (	(S3) ( <b>LRR F</b> )	(ML	RA 72 & 7	3 of LRR	H)	wetland hyd	rology must be present,
			<u>.</u>				unless distu	rbed or problematic.
	Layer (if present)							
Type:								,
Depth (in	ches):	<u> </u>					Hydric Soil Pres	ent? Yes No ✓
Remarks:								·
HYDROLO	GY			<u>·</u>			· · · · · · · · · · · · · · · · · · ·	
Wetland Hv	drology Indicator	s:	<del></del>		<del></del>			
-		 f one required; che	ck all that appl	v)			Secondary Inc	dicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			_	Soil Cracks (B6)
	ater Table (A2)	•	Aquatic Inv		(B13)			Vegetated Concave Surface (B8)
Saturati			Hydrogen					Patterns (B10)
Water M	larks (B1)		Dry-Seaso				-	Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits (B2)		Oxidized F			ng Roots (		- ,
Drift Dep	posits (B3)		(where r	not tilled)			Crayfish I	
	at or Crust (B4)		Presence	of Reduced	I Iron (C4	)		n Visible on Aerial Imagery (C9)
Iron Dep	oosits (B5)		Thin Muck	Surface (C	7)			hic Position (D2)
Inundati	on Visible on Aeria	l Imagery (B7)	Other (Exp	lain in Ren	narks)		FAC-Neu	tral Test (D5)
Water-S	tained Leaves (B9	)					Frost-Hea	ave Hummocks (D7) (LRR F)
Field Obser	vations:							
Surface Wat	er Present?	Yes No <u>✓</u>	Depth (ind	ches):		_		
Water Table		Yes No ✓						
Saturation P	resent?	Yes No 🗸					and Hydrology Pre	sent? Yes No ✓
(includes car	oillary fringe)							
Describe Re	corded Data (strea	m gauge, monitorii	ng well, aerial p	photos, pre	vious insp	pections),	if available:	
Remarks:					-			

Project/Site: 130 Environmental Park		City/Co	<sub>unty:</sub> Lockha	art/Caldwell	_ Sampling Date: _	06/17/2013
Applicant/Owner: 130 Environmental Park, LLC		Ĭ			_ Sampling Point:	
Investigator(s): Troegle, Josh & Littleton, Brandyn	ı	Section	, Township, Ra		_	
				convex, none): None	Slo	ne (%): 0-1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: HeC2 - Heiden clay, 3 to 5 perce				NWI classif		III. <u></u>
Are climatic / hydrologic conditions on the site typical for th			,			
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"	-	No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ		
SUMMARY OF FINDINGS – Attach site map						atures, etc.
Library de Versal de Persal de Versal de Persal de Versal de Versa	1- /					
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N			Is the Sample		,	
Wetland Hydrology Present? Yes N	√ vo √	1	within a Wetla	ind? Yes	No <u>√</u>	-
Remarks:						
					<del></del>	
VEGETATION – Use scientific names of plan	nts.					
Tree Stratum (Plot size: 301)	Absolute % Cover		nant Indicator	Dominance Test wor		
1. Celtis laevigata	25	Yes	es? Status FAC	Number of Dominant S That Are OBL, FACW	Species or FAC	
2. Prosopis glandulosa	30	Yes	FACU	(excluding FAC-):	2	(A)
3. Ulmus crassifolia	10	No	FAC	Total Number of Domi	inant	
4. Bumelia lanuginosa	10	No	NI	Species Across All Str		(B)
	75	= Total	Cover	Percent of Dominant S	Snarios	
Sapling/Shrub Stratum (Plot size: 15'				That Are OBL, FACW		(A/B)
1. Celtis laevigata	25	Yes	FAC	Prevalence Index wo	rkchoot:	
2. Prosopis glandulosa	10	Yes	FACU_	Total % Cover of:		y by:
3				OBL species		
4				FACW species		
5	35			FAC species		
Herb Stratum (Plot size: 5'		= Total	Cover	FACU species		
1. Opuntia engelmannii	_10	No	NI	UPL species	x 5 =	
2. Nassella leucotricha	80	Yes	NI	Column Totals:		
3. Cylindropuntia leptocaulis	15	No	NI	Businels and lade	D/6	
4. Ambrosia trifida	20	No	FAC		x = B/A =	
5. Solanum elaeagnifolium	10	No	NI	Hydrophytic Vegetat		ation
6	_			1 - Rapid Test for 2 - Dominance Te		auon
7				3 - Prevalence Inc		
8	_				Adaptations <sup>1</sup> (Prov	ide sunnortina
9				data in Remark	ks or on a separate	sheet)
10				Problematic Hydro	ophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size: 30'	135	_= Total	l Cover	<sup>1</sup> Indicators of hydric so	oil and wettand hydr	rology must
1				be present, unless dis		
2.				Hydrophytic		
	0	= Total	l Cover	Vegetation	,	
% Bare Ground in Herb Stratum 20				Present? Y	es No <u> </u>	
Remarks:						

Sampling Point: T2-DP6 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color (moist) % Type Loc Texture <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_ Sandy Gleyed Matrix (S4) \_\_\_ Histosol (A1) \_\_\_ 1 cm Muck (A9) (LRR I, J) \_\_\_ Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) \_\_\_ Stripped Matrix (S6) \_\_ Black Histic (A3) \_\_\_ Dark Surface (S7) (LRR G) \_\_\_ Hydrogen Sulfide (A4) \_\_\_ Loamy Mucky Mineral (F1) High Plains Depressions (F16) \_\_\_ Stratified Layers (A5) (LRR F) \_\_\_ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) \_\_\_ 1 cm Muck (A9) (LRR F, G, H) \_\_\_ Depleted Matrix (F3) Reduced Vertic (F18) \_\_\_ Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Red Parent Material (TF2) \_\_\_ Thick Dark Surface (A12) \_\_\_ Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) \_\_\_ Sandy Mucky Mineral (S1) \_\_\_ Redox Depressions (F8) Other (Explain in Remarks) \_\_\_ High Plains Depressions (F16) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) 3Indicators of hydrophytic vegetation and \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_\_ Saturation (A3) \_\_ Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) \_\_\_ Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) \_\_\_ Crayfish Burrows (C8) \_\_\_ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_\_ No ✓ Depth (inches): \_\_\_\_\_ Surface Water Present? Yes \_\_\_\_\_ No ✓ \_\_ Depth (inches): \_\_\_\_\_ Water Table Present? Yes \_\_\_\_ No ✓ Depth (inches): \_\_\_\_\_ Saturation Present? Wetland Hydrology Present? Yes \_\_\_\_ No ✓ (includes capillary fringe)

US Army Corps of Engineers

Remarks:

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

Project/Site: 130 Environmental Park			City/Co	ounty: L	.ockhar	rt/Caldwell	San	npling Date: 06	5/17/2013
Applicant/Owner: 130 Environmental P							TX San		
Investigator(s): Troegle, Josh & Littleto							<u> </u>		
Landform (hillslope, terrace, etc.): None							None	Slope	(%): 0-1
Subregion (LRR): J - Southwestern Pra							7		
Soil Map Unit Name: BuB - Burleson clay,							VI classification		·
Are climatic / hydrologic conditions on the sit			ar? Ye	_					
Are Vegetation, Soil, or Hydr							stances" prese	-	No
Are Vegetation, Soil, or Hydr							any answers in		
SUMMARY OF FINDINGS – Attac							-		tures, etc.
Hydrophytic Vegetation Present?	es_ <b>√</b>	Ma				·-		_	
				Is the S	-			,	
Wetland Hydrology Present?	es f	No 🔽	'	within a	a Wetlan	nd?	Yes	No <u>v</u>	
Remarks:			I			<del></del>			
								_	
VEGETATION - Use scientific nar	nes of pla	nts.							
	•	Absolute	Domir	nant Inc	dicator	Dominance	Test workshee	et:	
Tree Stratum (Plot size: 30'	)	% Cover					ominant Specie		
1. Prosopis glandulosa		75	Yes	FA	ACU		L, FACW, or FA		
2. Ulmus crassifolia		60	Yes	FA	AC	(excluding FA		4	(A)
3						Total Numbe	r of Dominant		
4						Species Acro	oss All Strata:	6	(B)
1.51		135	= Total	I Cover		Percent of Do	ominant Specie		
Sapling/Shrub Stratum (Plot size: 15'	)	ΕO	V	EA	A.C.	That Are OBI	L, FACW, or FA	.c: <u>66</u>	(A/B)
1. Ulmus crassifolia		$-\frac{50}{10}$	Yes No	FA	ACU	Prevalence i	Index workshe	et:	
2. Prosopis glandulosa					100		Cover of:		ov:
3									
4 5						1	es		
5		60	- Total			FAC species		x3=	
Herb Stratum (Plot size: 5'	_)		- TOtal	COVE		FACU specie	es	x 4 =	
1. Avena fatua		40	Yes	NI	1	UPL species		x 5 =	<u> </u>
2. Ambrosia trifida			No		AC	Column Tota	ls:	_ (A)	(B)
3. Cylindropuntia leptocaulisi		_ 5	No	NI		Prevale	ence Index = B/	/A -	
4. Elymus virginicus		_ 40	Yes	FA	AC		Vegetation Inc		
5							Test for Hydro		ΔEI
6						1	nance Test is >		011
7						1	alence Index is:		
8						_	hological Adapt		Rupporting
9						data i	n Remarks or o	n a separate sh	neet)
10						Problem	atic Hydrophytic	c Vegetation <sup>1</sup> (E	Explain)
Woody Vine Stratum (Plot size: 30'	١	95	= Total	l Cover		1Indicators of	f hydric soil and	wetland hydrol	nav must
1 Ampelopsis cordata	/	60	Yes	FA	AC		inless disturbed		
2.						Hydrophytic	:		
				I Çover		Vegetation			
% Bare Ground in Herb Stratum						Present?	Yes <u>✓</u>	No	_
Remarks:									_ <del></del>

Sampling Point: T2-DP7 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Texture 0-10 10 YR 2/1 100 Clay <sup>2</sup>Location: PL=Pore <u>Lining</u>, M=Matrix. <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: \_\_\_ Sandy Gleyed Matrix (S4) Histosol (A1) \_\_\_ 1 cm Muck (A9) (LRR I, J) \_\_\_ Sandy Redox (S5) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR F, G, H) \_\_\_ Black Histic (A3) \_\_\_ Stripped Matrix (S6) \_\_\_ Dark Surface (S7) (LRR G) \_\_\_ Hydrogen Sulfide (A4) \_\_\_ Loamy Mucky Mineral (F1) High Plains Depressions (F16) \_\_\_ Stratified Layers (A5) (LRR F) \_\_\_ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) \_\_\_ 1 cm Muck (A9) (LRR F, G, H) \_\_\_ Depleted Matrix (F3) Reduced Vertic (F18) Depleted Below Dark Surface (A11) \_\_\_ Redox Dark Surface (F6) Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) \_\_\_ Very Shallow Dark Surface (TF12) \_\_\_ Thick Dark Surface (A12) \_\_\_ Redox Depressions (F8) Sandy Mucky Mineral (S1) Other (Explain in Remarks) \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_\_\_ High Plains Depressions (F16) 3Indicators of hydrophytic vegetation and \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): \_ **Hydric Soil Present?** Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) \_\_\_ Surface Water (A1) \_\_ Salt Crust (B11) Surface Soil Cracks (B6) \_\_\_ High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Aquatic Invertebrates (B13) \_\_ Saturation (A3) Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) \_\_\_ Drift Deposits (B3) (where not tilled) \_\_\_ Crayfish Burrows (C8) \_\_\_ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) \_\_\_ Iron Deposits (B5) \_\_\_ Thin Muck Surface (C7) Geomorphic Position (D2)

Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) \_\_\_ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_ No ✓ Depth (inches): \_\_\_ Surface Water Present? Yes \_\_\_\_\_ No <u>✓</u> Depth (inches): \_\_\_\_\_ Water Table Present? Yes \_ No ✓ Depth (inches); \_\_\_\_ Saturation Present? Wetland Hydrology Present? Yes No ✓ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

3 Total Number of Dominant	83
Investigator(s): Troegle, Josh & Littleton, Brandyn Section, Township, Range: NA  Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2  Subregion (LRR): J - Southwestern Prairies Lat: 29.98 Long: -97.66 Datum: NAD  Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5 percent slopes NWI classification: None  Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No (If no, explain in Remarks.)  Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No  Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features,  Hydrophytic Vegetation Present? Yes No ✓	83
Landform (hillslope, terrace, etc.): Hillslope	83
Subregion (LRR): J - Southwestern Prairies  Lat: 29.98  Long: -97.66  Datum: NAD  Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5 percent slopes  Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No (If no, explain in Remarks.)  Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No  Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features,  Hydrophylic Vegetation Present? Yes No  Hydrophylic Vegetation Present? Yes No  Wetland Hydrology Present? Yes No  Wetland Hydrology Present? Yes No  Tree Stratum (Plot size: 30') Absolute Dominant Indicator % Cover Species? Status	83
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5 percent slopes NWI classification: None  Are climatic / hydrologic conditions on the site typical for this time of year? Yes / No (If no, explain in Remarks.)  Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes / No _  Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features,  Hydrophylic Vegetation Present? Yes No / Is the Sampled Area within a Wetland? Yes No / Wetland Hydrology Present? Yes No / Is the Sampled Area within a Wetland? Yes No / No /	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation, Soil, or Hydrology significantly disturbed?	-
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No _ Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features,  Hydrophytic Vegetation Present? Yes No Is the Sampled Area Hydric Soil Present? Yes No Within a Wetland? Yes No  Wetland Hydrology Present? Yes No Within a Wetland? Yes No  Remarks:  VEGETATION — Use scientific names of plants.  Tree Stratum (Plot size: 30' Absolute Dominant Indicator	-
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features,  Hydrophytic Vegetation Present?	-
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features,    Hydrophylic Vegetation Present?	etc.
Hydric Soil Present?  Wetland Hydrology Present?  Yes No ✓  Wetland Hydrology Present?  Remarks:  VEGETATION – Use scientific names of plants.     Tree Stratum (Plot size: 30')	
Hydric Soil Present?  Wetland Hydrology Present?  Yes No ✓  Wetland Hydrology Present?  Remarks:  VEGETATION – Use scientific names of plants.     Tree Stratum (Plot size: 30')	
Wetland Hydrology Present? Yes No ✓  Remarks:  VEGETATION – Use scientific names of plants.  Tree Stratum (Plot size: 30' ) Absolute % Cover Species? Status	
VEGETATION – Use scientific names of plants.  Tree Stratum (Plot size: 30' )	
Absolute Dominant Indicator Species? Status  1	
Absolute Dominant Indicator Species? Status  1	
Absolute Dominant Indicator Species? Status  1	
Absolute Dominant Indicator Species? Status  1	
Absolute Dominant Indicator Species? Status  1	
Tree Stratum (Plot size: 30' )	
1 That Are OBL, FACW, or FAC (excluding FAC-): 0 (  3 Total Number of Dominant Species Agrees All Strate: 4	
2 (excluding FAC-): U ( 3 Total Number of Dominant Species Agrees All Strate: 4	
Species Across All Strate: 4	(A)
Species Across All Strata: 4 (I	
	B)
= Total Cover Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size: 15' )  1. Prosopis glandulosa 40 Yes FACU That Are OBL, FACW, or FAC: 0 (A	A/B)
2 Mahonia trifoliolata 40 Yes NI Prevalence Index worksheet:	
3. Castela erecta 5 No NJ Total % Cover of: Multiply by:	
OBL species x1 =	
FACW species x 2 =	
85 = Total Cover FAC species x 3 =	
Herb Stratum (Plot size: 5' ) FACU species x 4 =	
1 Cylindropuntia leptocaulis 5 No NI UPL species x 5 =	(D)
2. Nassella leucotricha 60 Yes NI Column Totals: (A)	(B)
Prevalence Index = B/A =	
4. Hydrophytic Vegetation Indicators:	
5 1 - Rapid Test for Hydrophytic Vegetation	
6 2 - Dominance Test is >50%	
3 - Prevalence Index is \$3.0°	
9 4 - Morphological Adaptations¹ (Provide suppo	rting
10 Problematic Hydrophytic Vegetation (Explain)	
125 = Total Cover	
Woody Vine Stratum (Plot size: 30' ) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	st
1 be present, unless disturbed of problematic.	
2. Hydrophytic	
= Total Cover Vegetation	
% Bare Ground in Herb Stratum 25 = Total Cover Vegetation Present? Yes No ✓	
= Total Cover Vegetation	
% Bare Ground in Herb Stratum 25 = Total Cover Vegetation Present? Yes No ✓	

Sampling Point: T2-DP8 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Texture <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 
<sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ 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) \_\_\_ Depleted Matrix (F3) \_\_\_ 1 cm Muck (A9) (LRR F, G, H) Reduced Vertic (F18) \_\_\_ Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) \_\_\_ Thick Dark Surface (A12) \_\_\_ Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) \_\_\_ Redox Depressions (F8) Other (Explain in Remarks) \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) 3Indicators of hydrophytic vegetation and 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) \_\_\_ Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) \_ Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) \_\_\_ Water Marks (B1) Dry-Season Water Table (C2) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Sediment Deposits (B2) Oxidized Rhízospheres on Living Roots (C3) (where tilled) \_\_\_ Drift Deposits (B3) (where not tilled) \_\_\_ Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) \_\_\_ Saturation Visible on Aerial Imagery (C9) \_ Iron Deposits (B5) \_\_\_ Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) \_\_ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_ No ✓ Depth (inches): \_\_\_ Surface Water Present? Yes \_\_\_\_ No ✓ Depth (inches): \_\_\_\_ Water Table Present? Yes \_\_\_\_ No V Depth (inches): \_\_\_\_ Saturation Present? Wetland Hydrology Present? Yes \_\_\_ No ✓ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



Data Point 1 Mesquite Grassland Mosaic



Data Point 1 Mesquite Grassland Mosaic



Data Point 2 Riparian Woods (Cedar Elm/Oak)



Data Point 2 Riparian Woods (Cedar Elm/Oak)



Data Point 3 Mesquite Grassland Mosaic



Data Point 3 Mesquite Grassland Mosaic



Data Point 4 Mesquite Grassland Mosaic



Data Point 4 Mesquite Grassland Mosaic



Data Point 5 Sumpweed Depressions



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



Data Point 8 Mesquite Grassland Mosaic

Project/Site: 130 Environmental Park		Citv/C	ounty: Lock	hart/Caldwell	Sampling	Date: 06/1	8/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX			
Investigator(s): Troegle, Josh & Littleton, Brand							
				ve, convex, none): None		Slone (%	y 0-1
Subregion (LRR): J - Southwestern Prairies							
5 ( )=			-				7 to 00
Soil Map Unit Name: WgC - Wilson gravelly loam,						IIG	
Are climatic / hydrologic conditions on the site typical for						,	
Are Vegetation, Soil, or Hydrology				re "Normal Circumstances"			No
Are Vegetation, Soil, or Hydrology	naturally pro	blema	atic? (I	f needed, explain any answ	ers in Rema	ırks.)	
SUMMARY OF FINDINGS - Attach site m	ap showing	sam	pling poir	nt locations, transect	s, import	ant featur	es, etc.
Hydrophytic Vegetation Present? Yes	No <b>√</b>		le the Com	alad Area			
	No <u>√</u>		Is the Samp		No_	1	
Wetland Hydrology Present? Yes			within a we	edand? res	NO_		
Remarks:							
VEGETATION – Use scientific names of p	olants.						
201	Absolute		ninant Indicat	I	rksheet:		
Tree Stratum (Plot size: 30' )	% Cover	Spe	cies? Status	—   Number of Dominant			
1,				That Are OBL, FACW (excluding FAC-):	, or FAC	0	(A)
2				- (excluding 1 AC ).	-		_ (^)
3			<del></del>	Total Number of Dom Species Across All St		3	(B)
4				— Opecies Across Air St	iala.		_ (D)
Sapling/Shrub Stratum (Plot size: 15'		= 10t	al Cover	Percent of Dominant That Are OBL, FACW		0	(A/B)
1. Prosopis glandulosa	50	Yes	FACU		, or i Ao		_ (АБ)
2. Juniperus virginiana	5	No	UPL	Prevalence Index wo			
3. Ulmus crassifolia	5	No	FAC	Total % Cover of			
4. Sideroxylon lanuginosum	5	No	NI	OBL species			
5. Mahonia trifoliolata	5	No	NI	FACW species			
51	70	= Tot	al Cover	FAC species			
Herb Stratum (Plot size: 5'  1. Opuntia engelmannii	20	No	NI	FACU species			_
2 Nassella leucotricha	80	Yes	NI	UPL species			— (B)
3 Monarda citriodora	80	Yes	NI NI	Column Totals:	(A)		(B)
				Prevalence Inde	ex = B/A = _		
4				Hydrophytic Vegeta			
5				1 - Rapid Test for	· Hydrophytic	c Vegetation	
7		-		2 - Dominance To			
8				3 - Prevalence In			
9				4 - Morphologica	Adaptations	3 <sup>1</sup> (Provide su	pporting
10.				— data in Remai			•
	400	= Tot	al Cover	— Problematic Hydi	•		-
Woody Vine Stratum (Plot size: 30' )	· · · · · · · · · · · · · · · · · · ·			<sup>1</sup> Indicators of hydric s be present, unless dis			/ must
1				Hydrophytic			
2				Vegetation	'es	No. √	
% Bare Ground in Herb Stratum				110001111			
Remarks.							

Profile Descrip	dans (December )	lea desette e e	Indiana de	Constitution of		<del></del>	Sampling Point:	
		ne depth need	led to document the		r confirm th	e absence of i	ndicators.)	
Depth (inches)	Matrix Color (moist)	% Cold	Redox Feature or (moist) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. <u>,p.</u>			Terrario	
						<del></del>		
						<u> </u>		
						-	<del></del> ·	
	· · · · · · · · · · · · · · · · · · ·		ed Matrix, CS=Covere				n: PL=Pore Lining, M=	
•		e to all LKKS, I	unless otherwise not	*			Problematic Hydric S	oils":
Histoso! (A1 Histic Epipe	•		Sandy Gleyed Ma Sandy Redox (S5	. ,			(A9) (LRR I, J)	
Black Histic			Stripped Matrix (S	,			ie Redox (A16) ( <b>LRR I</b> ce (S7) ( <b>LRR G</b> )	-, G, <b>n</b> )
Hydrogen S			Loamy Mucky Mir	-			Depressions (F16)	
Stratified La	yers (A5) (LRR F)		Loamy Gleyed Ma				outside of MLRA 72 8	<b>%</b> 73)
1 cm Muck	(A9) ( <b>LRR F, G, H</b> )		Depleted Matrix (	,		Reduced V	ertic (F18)	,
	elow Dark Surface (A	(11)	Redox Dark Surfa	, ,			t Material (TF2)	
Thick Dark S			Depleted Dark Su				w Dark Surface (TF12	)
Sandy Muck	ky Peat or Peat (S2)	(I BB G H)	Redox Depressio High Plains Depressio	, ,	= 1		fain in Remarks) /drophylic vegetation a	
	Peat or Peat (S3) (L		(MLRA 72 & 3				drophylic vegetation a frology must be presen	
0 0/// (4/40/4)	1 001 01 1 001 (00) (1		(MEIOTIE C	TO OI LIKIK)	''		urbed or problematic.	ιτ,
Restrictive Lay	er (if present):							
Туре:								
					٠ ا	lydric Soil Pres	sent? Yes	No ✓
Depth (inches	s):				1			
Depth (inches	s):							
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Remarks:  YDROLOGY  Vetland Hydrol	, logy Indicators: rs (minimum of one r		all that apply)  Salt Crust (B11)			Secondary In	dicators (minimum of t	
YDROLOGY Vetland Hydrol Vetland Indicato	logy Indicators: rs (minimum of one r ter (A1)			s (B13)		Secondary In		wo require
YDROLOGY Vetland Hydrol Primary Indicato Surface Wat	ogy Indicators: rs (minimum of one r ter (A1) Table (A2)	_	_ Salt Crust (B11)		T	Secondary In Surface : Sparsely	Soil Cracks (B6)	wo require
YDROLOGY Vetland Hydrol Irimary Indicato Surface Wat High Water	ogy Indicators: rs (minimum of one rater (A1) Table (A2)	_	_ Salt Crust (B11) _ Aquatic Invertebrate	dor (C1)		Secondary In Surface : Sparsely Drainage	Soil Cracks (B6) Vegetated Concave S	wo require
YDROLOGY Vetland Hydrol Primary Indicato Surface Wat High Water Saturation (A	ogy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1)	_	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Od	dor (C1) able (C2)		Secondary In Surface: Sparsely Drainage	Soil Cracks (B6) Vegetated Concave S Patterns (B10)	wo require urface (B8
YDROLOGY Vetland Hydrol Primary Indicato Surface Wat High Water Saturation (A	ogy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2)	_	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Od Dry-Season Water T	dor (C1) able (C2)		Secondary In Surface Sparsely Drainage Oxidized (where	Soil Cracks (B6) Vegetated Concave S Patterns (B10) Rhizospheres on Livin	wo require
YDROLOGY Vetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De	ogy Indicators: rs (minimum of one rater (A1) Table (A2) A3) s (B1) eposits (B2) is (B3)		Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Od Dry-Season Water T Oxidized Rhizosphe	dor (C1) able (C2) res on Livin		Secondary In Surface Sparsely Drainage Oxidized (where Craylish	Soil Cracks (B6) Vegetated Concave S Patterns (B10) Rhizospheres on Livin	wo require urface (B8 g Roots (0
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YDROLOGY Vetland Hydrol Primary Indicator Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or	logy Indicators: rs (minimum of one rater (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4)	-	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Od Dry-Season Water T Oxidized Rhizosphe (where not tilled) Presence of Reduce	dor (C1) Table (C2) Tes on Living d Iron (C4) C7)		Secondary In Surface Sparsely Drainage Oxidized (where Craylish Saturatio	Soil Cracks (B6) Vegetated Concave S Patterns (B10) Rhizospheres on Livin tilled) Burrows (C8) n Visible on Aerial Ima	wo require urface (B8 g Roots (0
YDROLOGY Vetland Hydrol Inimary Indicator Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit	logy Indicators: rs (minimum of one rater (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5)	-	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Od Dry-Season Water T Oxidized Rhizosphe (where not tilled) Presence of Reduce Thin Muck Surface (	dor (C1) Table (C2) Tes on Living d Iron (C4) C7)		Secondary In Surface: Sparsely Drainage Oxidized (where Craylish Saturatio Geomory FAC-Neu	Soil Cracks (B6) Vegetated Concave S Patterns (B10) Rhizospheres on Livin tilled) Burrows (C8) on Visible on Aerial Ima	wo require urface (B8 g Roots (0 gery (C9)
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YDROLOGY Vetland Hydrol Primary Indicator Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Water-Staine	logy Indicators: rs (minimum of one rater (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) risible on Aerial Imaged Leaves (B9) ons: resent? Yes_	gery (B7)	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Od Dry-Season Water T Oxidized Rhizosphe (where not tilled) Presence of Reduce Thin Muck Surface ( Other (Explain in Re	dor (C1) Table (C2) Tes on Living d Iron (C4) C7) marks)	g Roots (C3)	Secondary In Surface: Sparsely Drainage Oxidized (where Craylish Saturatio Geomory FAC-Neu	Soil Cracks (B6) Vegetated Concave S Patterns (B10) Rhizospheres on Livin tilled) Burrows (C8) In Visible on Aerial Ima phic Position (D2) Itral Test (D5)	wo require urface (B8 g Roots (0 gery (C9)
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YDROLOGY Vetland Hydrol Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit	logy Indicators: rs (minimum of one rater (A1) Table (A2) A3) s (B1) eposits (B2) ds (B3) Crust (B4) s (B5) //isible on Aerial Imaged Leaves (B9) ons: resent? Yes _ sent? Yes _	gery (B7)	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Od Dry-Season Water T Oxidized Rhizosphe (where not tilled) Presence of Reduce Thin Muck Surface ( Other (Explain in Re	dor (C1) able (C2) res on Living d Iron (C4) C7) marks)	g Roots (C3)	Secondary In Surface: Sparsely Drainage Oxidized (where Craylish Saturatio Geomory FAC-Neu	Soil Cracks (B6) Vegetated Concave S Patterns (B10) Rhizospheres on Livin tilled) Burrows (C8) In Visible on Aerial Ima phic Position (D2) Itral Test (D5)	wo require urface (B8 g Roots (0 gery (C9)
YDROLOGY Vetland Hydrol Primary Indicator Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Water-Staine ield Observation Vater Table Presencludes capillar	logy Indicators: rs (minimum of one rater (A1) Table (A2) A3) s (B1) eposits (B2) ds (B3) Crust (B4) s (B5) //isible on Aerial Imaged Leaves (B9) ons: resent? yes _ nt? yes _ y fringe)	gery (B7)	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Od Dry-Season Water T Oxidized Rhizosphe (where not tilled) Presence of Reduce Thin Muck Surface ( Other (Explain in Re	dor (C1) able (C2) res on Living d Iron (C4) C7) marks)	g Roots (C3)	Secondary In Surface Secondary In Surface Secondary In Sparsely Drainage Oxidized (where Craylish Saturation Geomory FAC-Neu Frost-He	Soil Cracks (B6) Vegetated Concave S Patterns (B10) Rhizospheres on Livin tilled) Burrows (C8) on Visible on Aerial Ima chic Position (D2) utral Test (D5) ave Hummocks (D7) (	wo require urface (B8 g Roots (0 gery (C9)

Project/Site: 130 Environmental Park		City/County	/: Lockha	rt/Caldwell	Sampling Date: 06/18/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T3-DP2
Investigator(s): Troegle, Josh & Littleton, Brandyr					
<u> </u>					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 the			,		
Are Vegetation, Soil, or Hydrology	_				present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map					•
SUMMART OF THE MISS - Attach site map	silowing	Sampin	ig point i		
Hydrophytic Vegetation Present? Yes		ls th	ne Sampleo	l Area	
Hydric Soil Present? Yes	No <del>√</del>	with	nin a Wetlaı	nd? Yes	No <u>√</u>
Wetland Hydrology Present? Yes	No_ <b>v</b>				<del></del>
Remarks:					
VEGETATION - Use scientific names of pla	nts.				
Tree Stratum (Plot size: 30')	Absolute		Indicator	Dominance Test worl	
. Proponia alandulasa	20	Species? Yes	FACU	Number of Dominant S That Are OBL, FACW,	
Prosopis gianauiosa     2				(excluding FAC-):	1 (A)
3				Total Number of Domii	nant
4.				Species Across All Stra	^
	20	= Total Co	ver	Percent of Dominant S	pecies
Sapling/Shrub Stratum (Plot size: 15')	50	Van	EACH	That Are OBL, FACW,	
1. Prosopis glandulosa 2. Ulmus crassifolia	<del>50</del>	Yes No	FACU	Prevalence Index wo	rksheet:
3. Mahonia trifoliolata	$-\frac{3}{30}$	Yes	NI	Total % Cover of:	Multiply by:
4.	_ =			OBL species	x 1 =
5	_			FACW species	x 2 =
	85	= Total Co	ver	FAC species	x 3 =
Herb Stratum (Plot size: 5'					x 4 =
1. Opuntia engelmannii	_ 10	No	NI		x 5 =
2. Nassella leucotricha 3. Monarda citriodora	80	Yes Yes	NI NI	Column Totals:	(A) (B)
				Prevalence Index	k = B/A =
4				Hydrophytic Vegetati	on Indicators:
5 6				1 - Rapid Test for	Hydrophytic Vegetation
7				2 - Dominance Te	
8				3 - Prevalence Ind	
9				4 - Morphological .	Adaptations <sup>1</sup> (Provide supporting (s or on a separate sheet)
10.				ì	ophytic Vegetation <sup>1</sup> (Explain)
201	130	= Total Co	ver		
Woody Vine Stratum (Plot size: 30' )  1. Smilax rotundifolia	5	Y	FAC	be present, unless dist	oil and wetland hydrology must turbed or problematic.
			1710	,	
2	5	= Total Co		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 35			1431		es No
Remarks:			. , . ,		

Depth N	escribe to the depth n	eeded to document the	indicator o	r confirm tl	he absence o	indicators.)
Doptii	Matrix	Redox Feature	es			,
(inches) Color (m	noist) %	Color (moist) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
Type: C=Concentration,	D=Depletion, RM=Red	duced Matrix, CS=Covere	ed or Coated	Sand Grain	ns. <sup>2</sup> Loca	ion: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	(Applicable to all LRF	Rs, unless otherwise no	ted.)	•		r Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Gleyed M	. ,			ck (A9) ( <b>LRR I, J</b> )
Histic Epipedon (A2)		Sandy Redox (S				airie Redox (A16) (LRR F, G, H)
Black Histic (A3)	1\	Stripped Matrix (				face (S7) (LRR G)
Hydrogen Sulfide (A4 Stratified Layers (A5)	,	Loamy Mucky Mi Loamy Gleyed M				ns Depressions (F16)
1 cm Muck (A9) (LRF		Depleted Matrix			Reduced	H outside of MLRA 72 & 73)
Depleted Below Dark		Redox Dark Surf	. ,		·	ent Material (TF2)
Thick Dark Surface (/		Depleted Dark S	, ,			illow Dark Surface (TF12)
Sandy Mucky Minera		Redox Depression				xplain in Remarks)
	r Peat (S2) ( <b>LRR G, H</b> )	) High Plains Depr	ressions (F10	ô)	<sup>3</sup> Indicators of	hydrophytic vegetation and
5 cm Mucky Peat or F	Peat (S3) (LRR F)	(MLRA 72 &	73 of LRR I	4)		nydrology must be present,
					unless di	sturbed or problematic.
Restrictive Layer (if pres	•					
Туре:		•				
Depth (inches):		<u>-</u>			Hydric Soil P	resent? Yes No <u>√</u>
Remarks:						
YDROLOGY						
	cators:				· · · · · · · · · · · · · · · · · · ·	
Vetland Hydrology Indic Primary Indicators (minim					Secondary	Indicators (minimum of two require
Vetland Hydrology Indi		Salt Crust (B11)				Indicators (minimum of two require e Soil Cracks (B6)
Vetland Hydrology Indio Primary Indicators (minim Surface Water (A1) High Water Table (A2	um of one reguired; ch	Salt Crust (B11) Aquatic Invertebrate			Surfac	
Vetland Hydrology Indio Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3)	um of one reguired; ch	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C	dor (C1)		Surfac Sparse Draina	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10)
Vetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	um of one required; ch	Salt Crust (B11) Aquatic Invertebrate	dor (C1)		Surfac Sparse Draina	e Soil Cracks (B6) ely Vegetated Concave Surface (B8
Vetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (E	um of one required; ch	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Dry-Season Water Oxidized Rhizosphe	odor (C1) Table (C2) eres on Livin	g Roots (C	Surface Sparse Draina Oxidiz	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10)
Vetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	um of one required; ch	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Dry-Season Water Oxidized Rhizosphe (where not tilled	odor (C1) Table (C2) eres on Livin )	g Roots (C	Surface Sparse Draina Oxidiz Oxendiz (whee Crayfis	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10) ed Rhizospheres on Living Roots (C ere tilled) sh Burrows (C8)
Vetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (E Drift Deposits (B3)	um of one required; ch	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Dry-Season Water Oxidized Rhizosphe     (where not tilled Presence of Reduce	Odor (C1) Table (C2) eres on Livin ) ed Iron (C4)	g Roots (C	Surface Sparse Draina Oxidiz Oxendiz (whee Crayfis	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10) ed Rhizospheres on Living Roots (C ere tilled)
Vetland Hydrology Indicential Primary Indicators (miniments) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	um of one required; ch	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Dry-Season Water Oxidized Rhizosphe         (where not tilled Presence of Reduce Thin Muck Surface	Odor (C1) Table (C2) eres on Livin ) ed Iron (C4) (C7)	g Roots (C3	Surface Sparse Draina Oxidiz B) (whee Crayfis Satura	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10) ed Rhizospheres on Living Roots (C ere tilled) sh Burrows (C8)
Primary Indicators (minimal Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on	um of one required; ch 2) 32) 4) Aerial Imagery (B7)	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Dry-Season Water Oxidized Rhizosphe     (where not tilled Presence of Reduce	Odor (C1) Table (C2) eres on Livin ) ed Iron (C4) (C7)	g Roots (C	Surface Sparse Draina Oxidiz  Crayfe Satura Geome	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10) ed Rhizospheres on Living Roots (Cere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5)
Vetland Hydrology Indice Primary Indicators (minime) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Water-Stained Leave	um of one required; ch 2) 32) 4) Aerial Imagery (B7)	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Dry-Season Water Oxidized Rhizosphe         (where not tilled Presence of Reduce Thin Muck Surface	Odor (C1) Table (C2) eres on Livin ) ed Iron (C4) (C7)	g Roots (C	Surface Sparse Draina Oxidiz  Crayfe Satura Geome	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10) ed Rhizospheres on Living Roots (Cere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2)
Wetland Hydrology Indicenter (A1)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on  Water-Stained Leave	um of one required; ch 2) 32) 4) Aerial Imagery (B7) s (B9)	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Dry-Season Water Oxidized Rhizosphe	Odor (C1) Table (C2) eres on Livin ) ed Iron (C4) (C7) emarks)		Surface Sparse Draina Oxidiz  Crayfe Satura Geome	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10) ed Rhizospheres on Living Roots (Cere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5)
Primary Indicators (minimal Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Water-Stained Leave: Surface Water Present?	um of one required; ch	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Dry-Season Water Oxidized Rhizosphe	Odor (C1) Table (C2) eres on Livin ) ed Iron (C4) (C7) emarks)		Surface Sparse Draina Oxidiz  Crayfe Satura Geome	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10) ed Rhizospheres on Living Roots (Cere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5)
High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on	um of one required; ch 2) 32) 4) Aerial Imagery (B7) s (B9) Yes No Yes No	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Dry-Season Water Oxidized Rhizosphe	Odor (C1) Table (C2) eres on Livin ) ed Iron (C4) (C7) emarks)	-	Surface Sparse Draina Oxidiz (whe Crayfis Satura Geom FAC-N Frost-I	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10) ed Rhizospheres on Living Roots (Cere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5) Heave Hummocks (D7) (LRR F)
Wetland Hydrology Indicenters (Indicators	um of one required; ch 2) 32) 4) Aerial Imagery (B7) s (B9) Yes No Yes No	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Dry-Season Water Oxidized Rhizosphe	Odor (C1) Table (C2) eres on Livin ) ed Iron (C4) (C7) emarks)	-	Surface Sparse Draina Oxidiz (whe Crayfis Satura Geom FAC-N Frost-I	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10) ed Rhizospheres on Living Roots (Cere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5)
Primary Indicators (minimary I	um of one required; ch 2) 32) 4) Aerial Imagery (B7) s (B9)  Yes No _ Yes No _ Yes No _ Yes No _	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Dry-Season Water Oxidized Rhizosphe (where not tilled Presence of Reduce Thin Muck Surface Other (Explain in Ref	Odor (C1) Table (C2) eres on Livin ) ed Iron (C4) (C7) emarks)	- Wetland	Surface Sparse Sparse Draina Oxidiz  Crayfis Satura Geom FAC-N Frost-I	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10) ed Rhizospheres on Living Roots (Cere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5) Heave Hummocks (D7) (LRR F)
Vetland Hydrology Indicential Primary Indicators (miniments)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on  Water-Stained Leaves  Surface Water Present?  Vater Table Present?	um of one required; ch 2) 32) 4) Aerial Imagery (B7) s (B9)  Yes No _ Yes No _ Yes No _ Yes No _	Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Dry-Season Water Oxidized Rhizosphe (where not tilled Presence of Reduce Thin Muck Surface Other (Explain in Ref	Odor (C1) Table (C2) eres on Livin ) ed Iron (C4) (C7) emarks)	- Wetland	Surface Sparse Sparse Draina Oxidiz  Crayfis Satura Geom FAC-N Frost-I	e Soil Cracks (B6) ely Vegetated Concave Surface (B8 ge Patterns (B10) ed Rhizospheres on Living Roots (Cere tilled) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) leutral Test (D5) Heave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		City/C	ounty:	Lockhaı	rt/Caldwell	Sami	pling Date: 06/	18/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX			
Investigator(s): Troegle, Josh & Littleton, Brandyn	1	Section	on, To	wnship, Ra	nge: NA			
Landform (hillslope, terrace, etc.): Depression		Local	l relief	(concave,	convex, none): Cor	ncave	Slope (%	6): 2-4
Subregion (LRR): J - Southwestern Prairies					Long: -97.66			
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 Circumstand			No
Are Vegetation, Soil, or Hydrology					eded, explain any a			
SUMMARY OF FINDINGS – Attach site map								res, etc.
Hydrophytic Vegetation Present? Yes ✓ 1	No		le th	e Sampled	Area			
Hydric Soil Present? Yes ✓ Yes				_		✓	No	
Wetland Hydrology Present? Yes ✓ 1	No							
Remarks:								
VEGETATION – Use scientific names of plan	nts.							
	Absolute	Dom	inant	Indicator	Dominance Test	worksheet	•	
<u>Tree Stratum</u> (Plot size: 30'	% Cover	•			Number of Domina			
1					That Are OBL, FAI (excluding FAC-):		2	(A)
2			_					_ (//
3					Total Number of D Species Across Al		3	(B)
4		= Tota	al Cov	/or				_ (D)
Sapling/Shrub Stratum (Plot size: 15' )		- 100	ai Cuv	·CI	Percent of Domina That Are OBL, FA			(A/B)
1. Prosopis glandulosa	30	Yes		FACU		·		(3.5.7)
2. Juniperus virginiana	2	No		UPL	Prevalence Index			
3					Total % Cove			
4	_				FACW species			
5		_			FAC species			
Herb Stratum (Plot size: 5' )	32	= Tota	al Cov	er er	FACU species			
1. Iva annua	80	Yes		FAC	UPL species			
2. Phanopyrum gymnocarpon	20	No		OBL	Column Totals: _			
3. Eleocharis palustris	25	Yes		OBL				
4.					Hydrophytic Vege		\ =	
5					1 - Rapid Test			
6					✓ 2 - Dominance		-	
7					3 - Prevalence			
8					4 - Morpholog	ical Adapta	tions <sup>1</sup> (Provide s	upporting
9.					data in Rer	marks or on	ı a separate shee	et)
10		= Tota		/or	Problematic H	ydrophytic '	Vegetation¹ (Exp	lain)
Woody Vine Stratum (Plot size: 30'					<sup>1</sup> Indicators of hydri be present, unless	ic soil and was disturbed o	vetland hydrolog or problematic.	y must
1					Hydrophytic			_
% Bare Ground in Herb Stratum 5			al Cov	/er	Vegetation Present?	Yes <u>√</u>	No	
Remarks:								
Shrubs at edge of depression.								

SOIL Sampling Point: T3-DP3

Depth	Matrix		Redo	x Feature				maroutors.)
(inches)	Color (moist)	%	Color (moist)	%		Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-3	10 YR 3/1		10 YR 5/1	_ 15	_ <u>D</u>	. <u>M</u>	Clay	
			10 YR 5/8	_ <u>5</u>	<u> C</u>	_ <u>M</u>	Clay	
3-8	10 YR 2/1	100						
<del></del>		<del></del>	· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·
1Tuno: C=C	oncentration, D=De	alation DM=	Reduced Matrix, CS		d an Cast		21 11	DI DI III AA AA AA
	Indicators: (Applic					eu Sanu G		on: PL=Pore Lining, M=Matrix.  Problematic Hydric Soits <sup>3</sup> :
Histosol				Gleyed Ma	•			(A9) (LRR I, J)
Histic E	pipedon (A2)			Redox (St	, ,			irie Redox (A16) (LRR F, G, H)
	istic (A3)			d Matrix (	,			ace (S7) (LRR G)
1	en Sulfide (A4)	-\		Mucky Mi				s Depressions (F16)
	d Layers (A5) (LRR uck (A9) (LRR F, G,			Gleyed M d Matrix (				l outside of MLRA 72 & 73)
	d Below Dark Surfac	•	✓ Redox i					/ertic (F18) nt Material (TF2)
	ark Surface (A12)	` ′		d Dark St	. ,	")		ow Dark Surface (TF12)
. —	Mucky Mineral (S1)			Depressio				olain in Remarks)
	Mucky Peat or Peat			ains Depr	•			ydrophytic vegetation and
5 cm MI	ucky Peat or Peat (S	3) ( <b>LRR F</b> )	(ML	RA 72 &	73 of LRI	₹H)		drology must be present, turbed or problematic.
Restrictive	Layer (if present):		<del></del>				<u> </u>	turbed or problematic.
Type: Cli								
Depth (in	ches): 8-10 inches						Hydric Soil Pre	sent? Yes ✓ No
Remarks:								
HYDROLO	acv.							
	drology Indicators:		<del></del>				·	
	cators (minimum of c		check all that appli	v)			Secondary II	ndicators (minimum of two required)
	Water (A1)	no regunea,	Salt Crust					Soil Cracks (B6)
_	ater Table (A2)		Aquatic Inv	` '	es (B13)			y Vegetated Concave Surface (B8)
Saturation	, ,		Hydrogen		. ,			e Patterns (B10)
	larks (B1)		Dry-Seaso			)		d Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits (B2)		✓ Oxidized F	Rhizosphe	res on Liv	ing Roots		e tilled)
Drift Dep	posits (B3)		(where r	not tilled)				Burrows (C8)
	at or Crust (B4)		Presence		•	4)		on Visible on Aerial Imagery (C9)
	oosits (B5)		Thin Muck	,				phic Position (D2)
_	on Visible on Aerial	lmagery (B7)	Other (Exp	olain in Re	emarks)			utral Test (D5)
	tained Leaves (B9)						Frost-He	eave Hummocks (D7) (LRR F)
Field Obser		'an Me	Donth (in	ahaa):				
Surface Water Table			Depth (ind Depth (ind					
Saturation P			Depth (inc				and Hadraham Pr	
(includes car		es 140	J_▼ Deptil (ilit	Jiles)	<del></del>	_   well	and nydrology Pr	esent? Yes ✓ No
Describe Re	corded Data (stream	gauge, mon	toring well, aerial p	ohotos, pr	evious ins	spections),	if available:	
Domestics				_				
Remarks:								

Project/Site: 130 Environmental Par	k		City/Cou	<sub>inty:</sub> Lockha	rt/Caldwell	Sar	npting Date: 06	3/18/2013
Applicant/Owner: 130 Environmental							npling Point: T	
Investigator(s): Troegle, Josh & Little								
Landform (hillslope, terrace, etc.): Depr						Concave	Slane	(%): <b>0-1</b>
Subregion (LRR): J - Southwestern F	Prairies	Lat. 29	QR	che (concave,	. 197	 36	Siope	NAD 83
								INAD 00
Soil Map Unit Name: WgC - Wilson gra								
Are climatic / hydrologic conditions on the								
Are Vegetation, Soil, or Hy							ent? Yes <u>√</u>	No
Are Vegetation, Soil, or Hy	ydrology	naturally pro	blemati	c? (If ne	eeded, explain	any answers in	Remarks.)	
SUMMARY OF FINDINGS - Att	ach site map	showing	samp	oling point l	ocations, tı	ransects, in	portant feat	tures, etc.
Hydrophytic Vegetation Present?	Yes <u></u> ✓			s the Sampled	l <b>A</b> rea			
Hydric Soil Present?	Yes <u>√</u>			vithin a Wetlar		Yes ✓	No	
Wetland Hydrology Present?	Yes <u>√</u>	No						
Remarks:								
VEOETATION Has sais saifing								
VEGETATION – Use scientific r	iames or pia		Domin		l Di	To at accordance to a		
Tree Stratum (Plot size: 30'	)	Absolute % Cover		nant Indicator es? Status		Test workshed Oominant Specie		
1						L, FACW, or FA	4C	
2.					(excluding F	AC-):	2	(A)
3					Total Numbe	er of Dominant	_	
4					Species Acr	oss All Strata:	3	(B)
1.61			= Total	Cover	Percent of D	ominant Specie	es	
Sapling/Shrub Stratum (Plot size: 15'	)	40	Yes	FACU	That Are OB	L, FACW, or FA	AC: <u>66</u>	(A/B)
1. Prosopis glandulosa		<del>- 40</del> 5	No		Prevalence	Index workshe	et:	
					Total %	Cover of:	Multiply b	by:
3							x 1 =	
4							_ x 2 =	
5			= Total	Cover	FAC species	·	_ x 3 =	
Herb Stratum (Plot size: 5'	)		- 10(a)	OOVEI	FACU speci	es	_ x 4 =	
1. Iva annua		50	Yes	FAC	UPL species		_ x 5 =	
2. Eleocharis palustris		50	Yes	OBL	Column Tota	als:	_ (A)	(B)
3. Carex brevior		10	No	FAC	Proval	opeo Indov. – B	/A =	
4						c Vegetation In		
5					1	_	ophytic Vegetati	OD
6					l .	inance Test is		JII .
7						alence Index is		
8							tations¹ (Provide	e supportina
9					data	in Remarks or	on a separate st	neet)
10					Problem	natic Hydrophyti	c Vegetation¹ (E	Explain)
Woody Vine Stratum (Plot size: 30'	)	110	= Total	Cover	<sup>1</sup> Indicators o	of hydric soil and	wetland hydrol	oav must
1	,						d or problematic	
2					Hydrophyti	 C		
				Cover	Vegetation			
% Bare Ground in Herb Stratum					Present?	Yes <u></u>	No	_
Remarks:								
Mesquite and cedar elm on edge of	depression.							

Sampling Point: T3-DP4 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Type<sup>1</sup> (inches) Color (moist) Loc<sup>2</sup> Texture 0-5 10 YR 2/1 5 YR 6/8 10 С M/PL Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Sandy Gleyed Matrix (S4) \_\_\_ 1 cm Muck (A9) (LRR I, J) Sandy Redox (S5) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR F, G, H) \_\_\_ Dark Surface (S7) (LRR G) Black Histic (A3) Stripped Matrix (S6) \_\_\_ Hydrogen Sulfide (A4) \_\_\_ Loamy Mucky Mineral (F1) High Plains Depressions (F16) \_\_\_ Stratified Layers (A5) (LRR F) \_\_\_ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) \_\_\_ 1 cm Muck (A9) (LRR F, G, H) Depleted Matrix (F3) Reduced Vertic (F18) \_\_\_ Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Other (Explain in Remarks) \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_\_\_ High Plains Depressions (F16) 3Indicators of hydrophytic vegetation and \_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Cobble Depth (inches): 5 inches Hydric Soil Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) \_\_\_ Surface Water (A1) \_\_\_ Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_ Saturation (A3) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) \_\_\_ Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) ✓ Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) (where tilled) \_\_\_ Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) ✓ Saturation Visible on Aerial Imagery (C9) \_ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) ✓ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes No ✓ Depth (inches): Surface Water Present? Yes \_\_\_\_ No ✓ Depth (inches): \_\_\_\_\_ Water Table Present? Yes \_\_\_\_\_ No 

Depth (inches): \_\_\_\_\_ Saturation Present? Wetland Hydrology Present? Yes ✓ No (includes capillary fringe)

Remarks:

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

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.): Depression						ve	Slope (%)	. 0-1
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: HoC2 - Houston Black clay, 3 to							_	
Are climatic / hydrologic conditions on the site typical for thi			,					
Are Vegetation, Soil, or Hydrology					"Normal Circumstances"		Yes ✓ N	10
Are Vegetation, Soil, or Hydrology					eeded, explain any answ			
SUMMARY OF FINDINGS – Attach site map				,	•		•	etc.
Hydrophytic Vegetation Present? Yes ✓ N	lo.			-				
Hydric Soil Present? Yes ✓ N				Sampled				
	10		withi	n a Wetlar	nd? Yes <u>▼</u>	No_		
Remarks:					·			
VEGETATION – Use scientific names of plan	nts.							
Tree Stratum (Plot size: 30'	Absolute			Indicator	Dominance Test wor			
	% Cover	-			Number of Dominant 5 That Are OBL, FACW,			
1					(excluding FAC-):	OITAC .	2	(A)
2 3					Total Number of Domi	nant		
4.					Species Across All Str		3	_ (B)
		= Tota	al Cov	 er	Percent of Dominant S	Species		
Sapling/Shrub Stratum (Plot size: 15' )					That Are OBL, FACW,		66	(A/B)
1. Prosopis glandulosa	40	Yes		FACU	Prevalence Index wo	rksheet:		
2. Ulmus crassifolia	- <del>5</del> -	No No		TAC UPL	Total % Cover of:		Multiply by:	
3. Juniperus virginiana				OLE	OBL species			
4					FACW species	x2	=	
3	50	= Tota	al Cov	 er	FAC species	x 3	=	_
Herb Stratum (Plot size: 5' )	<del></del>	, , ,	31 001	01	FACU species	x 4	=	_
1. Iva annua	_ 50	Yes		FAC	UPL species	x 5	=	_
2. Eleocharis palustris	_ 50	Yes		OBL	Column Totals:	(A)		(B)
3. Carex brevior		No		FAC	Prevalence Inde	x = B/A =		
4					Hydrophytic Vegetat			
5					1 - Rapid Test for	Hydrophyti	c Vegetation	
6.					✓ 2 - Dominance Te	est is >50%		
7					3 - Prevalence Inc	dex is ≤3.0¹		
8					4 - Morphological	Adaptations	s <sup>1</sup> (Provide su	pporting
10					data in Remarl			-
	110	= Tota	al Cov	er	Froblematic riyun	opnylic veg	etation (Expia	1111)
Woody Vine Stratum (Plot size: 30' )					<sup>1</sup> Indicators of hydric so be present, unless dis			must
1					be present, unless dis	turbed of bi	obiematic.	
2					Hydrophytic Vegetation			
% Bare Ground in Herb Stratum		= Tota		er	Present? Y	es	No	
% Bare Ground in Herb Stratum					<u> </u>			
Mesquite, cedar and cedar elm on edge of depressi	ion.							

SOIL								Sampling Point: T3-DP5
Profile Des	cription: (Describe	to the dept	h needed to docu	ment the	indicator	or confirm	n the absence of	
Depth	Matrix			x Feature				
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		Remarks
0-5	10 YR 2/1	_ <u>90</u>	5 YR 6/8	_ <u>10</u>	_ <u>C</u>	M/PL	Clay	
	V 100							
	•							
	-							
	oncentration, D=Dep					ed Sand G		on: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise no	ted.)		Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol				-	atrix (S4)			k (A9) ( <b>LRR I, J</b> )
	pipedon (A2)		-	Redox (S				irie Redox (A16) ( <b>LRR F, G, H</b> )
	istic (A3)			d Matrix (	,			ace (S7) (LRR G)
	en Sulfide (A4)	<b>-</b> \			neral (F1)		-	ns Depressions (F16)
	d Layers (A5) (LRR				atrix (F2)		,	Houtside of MLRA 72 & 73)
	uck (A9) ( <b>LRR F, G,</b> d Below Dark Surfac		✓ Redox I	ed Matrix (			Reduced	, ,
	ark Surface (A12)	(/ (/ / /			urface (F7)	١		nt Material (TF2) low Dark Surface (TF12)
	Mucky Mineral (S1)			Depressio	, ,	,		plain in Remarks)
-	Mucky Peat or Peat (	S2) ( <b>LRR G</b>			` '	16)		nydrophylic vegetation and
	icky Peat or Peat (S				73 of LRR			/drology must be present,
						,		turbed or problematic.
Restrictive	Layer (if present):							· · · · · · · · · · · · · · · · · · ·
Type: Co	bble		-					
Depth (in	ches): <u>5</u>						Hydric Soil Pro	esent? Yes ✓ No
Remarks:								
						_		<del></del>
HYDROLO								_
Wetland Hy	drology Indicators:							· · ·
Primary India	cators (minimum of c	ne required:	check all that appl	γ)			Secondary I	ndicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surface	Soil Cracks (B6)
High Wa	iter Table (A2)		Aquatic In	vertebrate	es (B13)		Sparsel	y Vegetated Concave Surface (B8)
Saturatio	on (A3)		Hydrogen	Sulfide O	dor (C1)			je Patterns (B10)
Water M	arks (B1)		Dry-Seaso	n Water	Гаble (С2)		Oxidize	d Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits (B2)		✓ Oxidized F	Rhizosphe	res on Liv	ing Roots	(C3) (whe	re tilled)
Drift Dep	oosits (B3)		(where r	not tilled)	)	_		n Burrows (C8)
Algal Ma	it or Crust (B4)		Presence	of Reduce	ed Iron (C4	1)		ion Visible on Aerial Imagery (C9)
Iron Dep	osits (B5)		Thin Muck		,	,		rphic Position (D2)
	on Visible on Aerial I	magery (B7)			' '			eutral Test (D5)
	tained Leaves (B9)	3 , ( )			,		<del></del>	eave Hummocks (D7) (LRR F)
Field Observ								eare Hammooke (D) / (ERT)
Surface Wate		es N	o 🗸 Depth (inc	ches).				
Water Table			o <u>✓</u> Depth (inc					
Saturation Pr (includes cap		esN	o ✓ Depth (ind	unes):		_   Wetl	and Hydrology Pi	resent? Yes No
	corded Data (stream	gauge, mor	itoring well, aerial r	ohotos, pr	evious ins	pections).	if available:	
	•					. ,		
Remarks:							_	
- williamo.								

Project/Site: 130 Environmental Pa	ark		City/Cou	<sub>inty:</sub> Lockhai	rt/Caldwell	_ Sampling Date	06/18/2013
Applicant/Owner: 130 Environmenta					State: TX	_ Sampling Point	: T3-DP6
Investigator(s): Troegle, Josh & Litt							
Landform (hillslope, terrace, etc.): Dep						ve s	lope (%): 0-1%
Subregion (LRR): J - Southwestern							
Soil Map Unit Name: HoC2 - Houston							.um.
·							
Are climatic / hydrologic conditions on th							
Are Vegetation, Soil, or H					'Normal Circumstances"		No
Are Vegetation, Soil, or H	Hydrology	_ naturally pro	blemati	c? (If ne	eded, explain any answ	∍rs in Remarks.)	
SUMMARY OF FINDINGS - At	tach site ma	p showing	samp	ling point l	ocations, transects	s, important f	eatures, etc
Hydrophytic Vegetation Present?	Yes <u></u> ✓	No		s the Sampled	Aroa		
Hydric Soil Present?	Yes <u>√</u>		1	vithin a Wetlar		No	
Wetland Hydrology Present?	Yes <u>√</u>	No					_
Remarks:							
VEGETATION - Use scientific	names of pl	ants.					
		Absolute	Domin	ant Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size: 30'	)	,		es? Status	Number of Dominant S		
1					That Are OBL, FACW,	or FAC 2	445
2					(excluding FAC+);		(A)
3					Total Number of Domi	7	4-1
4					Species Across All Str	ata: <u>3</u>	(B)
Sapling/Shrub Stratum (Plot size: 15	,		= Total	Cover	Percent of Dominant S		
1. Prosopis glandulosa		40	Yes	FACU	That Are OBL, FACW,	or FAC: 00	(A/B)
2. Ulmus crassifolia		5	No	FAC	Prevalence Index wo	rksheet:	
Lucia succe cincinated man		5	No	UPL	Total % Cover of:	Multi	ply by:
4					OBL species	x 1 =	
5.					FACW species		
		50	= Total	Cover	FAC species		
Herb Stratum (Plot size: 5'	)				FACU species		
1. Phyla lanceolata				FACW FACW	UPL species		
2. Iva annua		50	Yes Yes	— FAC	Column Totals:	(A)	(B)
3. Eleocharis palustris 4 Carex brevior		10	No	OBL FAC	Prevalence Inde	x = B/A =	
					Hydrophytic Vegetat		
5					1 - Rapid Test for	Hydrophytic Vege	etation
6					✓ 2 - Dominance Te	st is >50%	
7					3 - Prevalence Inc	lex is ≤3.0¹	
8					4 - Morphological		
9						ks or on a separat	•
10.			= Total	Cover	Problematic Hydro	ophytic Vegetatioi	า' (Explain)
Woody Vine Stratum (Plot size: 30'	)		10(2)	00101	<sup>1</sup> Indicators of hydric so		
1					be present, unless dis	urbed or problem	atic.
2					Hydrophytic		
			= Total	Cover	Vegetation Present? Yes	es_✓ No_	
% Bare Ground in Herb Stratum					, resource		
Remarks: Shrub layer at perimeter of depress	sion						
Strub layer at perimeter of depress	31011.						

SOIL Sampling Point: T3-DP6 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Denth Matrix Redox Features Color (moist) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> (inches) % Texture 0-5 10 YR 2/1 5 YR 6/8 10 С M/PL Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: Sandy Gleyed Matrix (S4) Histosol (A1) \_ 1 cm Muck (A9) (LRR I, J) \_\_\_ Histic Epipedon (A2) \_\_ Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) \_\_\_ Black Histic (A3) Stripped Matrix (S6) \_ Dark Surface (S7) (LRR G) \_\_\_ Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) \_\_\_ Stratified Layers (A5) (LRR F) \_\_\_ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) \_\_\_ 1 cm Muck (A9) (LRR F, G, H) Depleted Matrix (F3) Reduced Vertic (F18) \_\_\_ Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Red Parent Material (TF2) \_\_\_ Thick Dark Surface (A12) \_\_\_ Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Other (Explain in Remarks) \_\_\_ High Plains Depressions (F16) <sup>3</sup>Indicators of hydrophytic vegetation and 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Cobble Depth (inches): 5" Hydric Soil Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Sediment Deposits (B2) ✓ Oxidized Rhizospheres on Living Roots (C3) (where tilled) \_\_\_ Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) \_\_\_ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) ✓ Saturation Visible on Aerial Imagery (C9) \_\_\_ Iron Deposits (B5) Thin Muck Surface (C7) ✓ Geomorphic Position (D2) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes No ✓ Depth (inches): Surface Water Present? Yes \_\_\_\_ No ✓ \_\_ Depth (inches): \_\_\_\_ Water Table Present? Yes \_\_\_\_\_ No ✓ \_\_ Depth (inches): \_\_\_\_\_ Saturation Present? Wetland Hydrology Present? Yes ✓ No \_\_\_

(includes capillary fringe)

Remarks

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

Project/Site: 130 Environmental Park		City/Co	ounty:	Lockhai	rt/Caldw <b>e</b> ll	Samplir	ng Date: 06	6/18/2013
Applicant/Owner: 130 Environmental Park, LLC		-	-		State: TX		_	
Investigator(s): Troegle, Josh & Littleton, Brandyn		Sectio	n, Tov	ynship, Ra	nge: NA			•
Landform (hillslope, terrace, etc.): Depression				-	-	'e	Slope	(%): 0-1%
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: HoC2 - Houston Black clay, 3 to								•
Are climatic / hydrologic conditions on the site typical for thi								
Are Vegetation, Soil, or Hydrology					'Normal Circumstances"			No
Are Vegetation, Soil, or Hydrology is					eeded, explain any answe			NO
SUMMARY OF FINDINGS – Attach site map							,	turae ata
SOMMAN OF THE MOSS - Attach site map	SHOWING	Saiii	rhuni	) point i	ocations, transects	, iiiipoi		
Hydrophytic Vegetation Present? Yes ✓ N			Is the	e Sampled	Area			
Hydric Soil Present? Yes ✓ N			withi	n a Wetlar	nd? Yes <u>√</u>	No		
Wetland Hydrology Present? Yes   ✓ N  Remarks:	10				<del></del>			
Remarks.								
VEGETATION – Use scientific names of plan	nte							
VEGETATION – Ose scientific finances of plan	Absolute	Dom	inant	Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30'	% Cover				Number of Dominant S			
1					That Are OBL, FACW,		2	
2					(excluding FAC-):		2	(A)
3					Total Number of Domir		3	4
4					Species Across All Stra	ıta:	3	(B)
Sapling/Shrub Stratum (Plot size: 15' )		= Tota	al Cov	er	Percent of Dominant S		66	(
1. Prosopis glandulosa	40	Yes		FACU	That Are OBL, FACW,	or FAC:	00	(A/B)
2. Ulmus crassifolia	5	No		FAC	Prevalence Index wor	ksheet:		
3. Juniperus virginiana	5	No		UPL	Total_% Cover of:		Multiply l	oy:
4					OBL species			
5					FACW species			
E!	50	= Tota	al Cov	er	FAC species			
Herb Stratum (Plot size: 5' )	50	Yes		FAC	FACU species			<del></del>
1. Iva annua 2 Eleocharis palustris	50	Yes		OBL			5 =	—— (D)
3. Carex brevior	10	No	·	FAC	Column Totals:	(A	·)	(B)
					Prevalence index	= B/A =		
4.       5.					Hydrophytic Vegetati	on Indica	itors:	
6.					1 - Rapid Test for I		_	on
7					✓ 2 - Dominance Tes			
8					3 - Prevalence Ind			
9.					4 - Morphological / data in Remark	Adaptation	ns¹ (Provide	e supporting
10.					Problematic Hydro		-	•
201	110	= Tota	al Cov	er				
Woody Vine Stratum (Plot size: 30' )					<sup>1</sup> Indicators of hydric so be present, unless dist			
1								•
2			-1.0		Hydrophytic Vegetation			
% Bare Ground in Herb Stratum		= Tota	al Cov	er	Present? Ye	s <u> </u>	No	
Remarks:								
Mesquite, cedar and cedar elm on edge of depressi	ion.							

SOIL

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)
| Depth | Matrix | Redox Features |

Depth	cription: (Describ Matrix			iment the lox Feature		or confire	n the absence o	r indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10 YR 2/1	90	5 YR 6/8	10	С	M/PL	Clay	
	-		_					. <u>.</u>
			<del></del>					
				_				
¹Type: C=C	oncentration, D=D	epletion, RM=	Reduced Matrix, (	CS=Covere	d or Coat	ed Sand G	rains. <sup>2</sup> Local	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appl	icable to all	LRRs, unless oth	erwise no	ted.)			or Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Sandy	Gleyed M	atrix (S4)		1 cm Mu	ck (A9) (LRR I, J)
Histic E	pipedon (A2)		Sandy	Redox (S	5)		Coast Pr	airie Redox (A16) ( <b>LRR F, G, H</b> )
Black H	istic (A3)		Stripp	ed Matrix (	S6)		Dark Sur	face (S7) (LRR G)
	en Sulfide (A4)			/ Mucky Mi			High Pla	ins Depressions (F16)
	d Layers (A5) (LRF			Gleyed M				H outside of MLRA 72 & 73)
	uck (A9) (LRR F, G	- ,		ted Matrix (				Vertic (F18)
	d Below Dark Surfa	ice (A11)		Dark Surf	, ,			ent Material (TF2)
	ark Surface (A12) Jucky Mineral (S1)			ted Dark Si Depressio	-	)		allow Dark Surface (TF12)
	Mucky Peat or Pea					16)		xplain in Remarks) hydrophytic vegetation and
	ucky Peat or Peat (			LRA 72 &				nydrology must be present,
	zony i caron rear (	00) (EIRIT)	(10)	LICA 12 W	10 OI LIKI	<b>XII</b> )		isturbed or problematic.
Restrictive	Layer (if present):	-			<del></del>		1	otalised of problematic.
Type: Co								
	ches): 5"						Hydric Soil D	resent? Yes ✓ No _
Remarks:			<del></del>				Tryuno dont	163
Nomana.								
				· -	,			
IYDROLO	GY							
Wetland Hy	drology Indicators	s:						
Primary Indi	cators (minimum of	one required	; check all that ap	oly)			Secondary	Indicators (minimum of two required)
Surface	Water (A1)		Salt Crus	t (B11)			Surfac	e Soil Cracks (B6)
	iter Table (A2)		Aquatic I	nvertebrate	es (B13)			ely Vegetated Concave Surface (B8)
Saturati			Hydrogei					ige Patterns (B10)
	larks (B1)			on Water		)		ed Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		✓ Oxidized					ere tilled)
	posits (B3)			not tilled			, ,	sh Burrows (C8)
	at or Crust (B4)			of Reduce		4)		ition Visible on Aerial Imagery (C9)
	posits (B5)			k Surface		,		orphic Position (D2)
	on Visible on Aeria	Imagery (B7						leutral Test (D5)
	tained Leaves (B9)		,					Heave Hummocks (D7) (LRR F)
Field Obser								iodro Flammoska (B7) (ERRT)
Surface Wat		Yes N	lo ✓ Depth (i	nches).				
Water Table			lo <u>✓</u> Depth (i					
						I		200 May 1
Saturation P (includes car		1 es P	lo <u>✓</u> Depth (i	ncnes):	_	Wetl	and Hydrology F	Present? Yes <u>√</u> No
Describe Re	corded Data (stream	n gauge, mo	nitoring well, aeria	photos, pr	evious ins	spections).	if available:	
	•			1		. "		
Remarks:			<del></del>					
. Comuno.								

Project/Site: 130 Environmental Park		Citv/Cn	untv- Lock	hart/Caldwell	Sampling Date: 06/18/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T3-DP8
Investigator(s): Troegle, Josh & Littleton, Brandyr					_ Sumpling Forms
Landform (hillslope, terrace, etc.): Toe of Slope				-	Stone (9/), 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: BuB - Burleson clay, 1 to 3 percentage				NWI classifi	
Are climatic / hydrologic conditions on the site typical for the					
Are Vegetation, Soil, or Hydrology				re "Normal Circumstances"	present? Yes ✓ No
Are Vegetation, Soil, or Hydrology	naturally pro	blemat	ic? (I	f needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	samı	pling poin	t locations, transects	s, important features, etc.
	. /				·
Hydrophytic Vegetation Present? Yes I Hydric Soil Present? Yes I			Is the Samp		,
Wetland Hydrology Present? Yes	No <del>▼</del>		within a We	tland? Yes	No <u>-</u> /
Remarks:					
VEGETATION – Use scientific names of plan	nts.				
Tree Stratum (Plot size: 30'	Absolute		nant Indicate ies? <u>Status</u>	.	
1. Celtis laevigata	25	Yes	FAC	Number of Dominant S That Are OBL, FACW,	•
2. Prosopis glandulosa	20	Yes	FACU	(excluding FAC-):	1 (A)
3. Ulmus crassifolia	10	No	FAC	─     Total Number of Domit	pant
4.				Species Across All Str	4
	55	= Total	l Cover	Percent of Dominant S	Species
Sapling/Shrub Stratum (Plot size: 15')	-	3.7	211	That Are OBL, FACW,	
1. Bumelia lanuginosa	- <sup>5</sup>	No No	$\frac{\text{NI}}{\text{FAC}}$	Prevalence Index wo	rksheet:
2. Ulmus crassifolia 3. Prosopis glandulosa	50	Yes	FACU		Multiply by:
					x 1 =
4					x 2 =
0	65	= Total	I Cover	FAC species	x 3 =
Herb Stratum (Piot size: 51					x 4 =
1. Nassella leucotricha	90	Yes	NI	<del></del>	x 5 =
2. Solanum elaeagnifolium		No	NI	Column Totals:	(A) (B)
3				Prevalence Index	< = B/A =
4				Hydrophytic Vegetati	
5					Hydrophytic Vegetation
6.				2 - Dominance Te	
7				— 3 - Prevalence Ind	lex is ≤3.0 <sup>1</sup>
8				—   4 - Morphological	Adaptations <sup>1</sup> (Provide supporting
10					(s or on a separate sheet)
			I Cover		ophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30')					oil and wetland hydrology must
1				be present, unless dist	turbed or problematic.
2				Hydrophytic	
% Bare Ground in Herb Stratum		= Total	l Cover	Vegetation Present? Yes	es No
Remarks:					

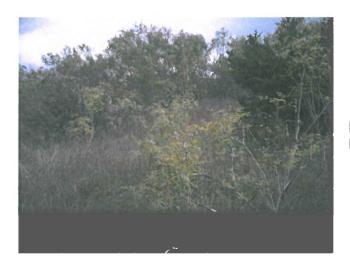
SOIL Sampling Point: T3-DP8 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Texture <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ 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) \_\_\_ High Plains Depressions (F16) \_\_\_ Hydrogen Sulfide (A4) \_\_\_ Loamy Mucky Mineral (F1) \_\_\_ Stratified Layers (A5) (LRR F) \_\_\_ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) \_\_\_ 1 cm Muck (A9) (LRR F, G, H) \_\_\_ Depleted Matrix (F3) Reduced Vertic (F18) \_\_\_ Redox Dark Surface (F6) \_\_\_ Depleted Below Dark Surface (A11) Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) \_\_ Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) \_\_\_ Sandy Mucky Mineral (S1) \_\_\_ Redox Depressions (F8) Other (Explain in Remarks) \_\_\_ High Plains Depressions (F16) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) 3Indicators of hydrophytic vegetation and 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) \_ Sparsely Vegetated Concave Surface (B8) \_\_\_ Saturation (A3) \_ Hydrogen Sulfide Odor (C1) \_ Drainage Patterns (B10) \_\_\_ Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) \_\_ Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) \_\_\_ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_\_ No <a href="#">Yes \_\_\_\_\_ Depth (inches): \_</a> Surface Water Present? Yes \_\_\_\_ No ✓ Depth (inches); \_\_\_\_ Water Table Present? Yes \_\_\_\_\_ No <u>✓\_\_\_</u> Depth (inches): \_\_\_\_\_\_ Saturation Present? Wetland Hydrology Present? Yes No ✓ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: 130 Environmental Park		Citv/Cou	<sub>ntv:</sub> Lockha	rt/Caldwell	Sampling Date: 06/18/2013	
<del>-</del>					Sampling Point; T3-DP9	
Investigator(s): Troegle, Josh & Littleton, Brandyn						
Landform (hillslope, terrace, etc.): Floodplain					e slane /9/.): 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 th						
Are Vegetation, Soil, or Hydrology				"Normal Circumstances" p	oresent? Yes 🗹 No	
Are Vegetation, Soil, or Hydrology	naturally pro	blematic	? (If n∈	eeded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sampl	ling point l	ocations, transects	, important features, etc.	
Hudanahudia Vagalatian Bassant2	lo.					
Hydrophytic Vegetation Present? Yes ✓ N Hydric Soil Present? Yes N	√ √		the Sampled		,	
Wetland Hydrology Present? YesN	√ vo √	W	rithin a Wetlai	nd? Yes	No <u>√</u>	
Remarks:						
FAC vegetation, not hydrophytic.						
				. —		
VEGETATION – Use scientific names of plan						
Tree Stratum (Plot size: 30')	Absolute % Cover		ant Indicator	Dominance Test work		
1. Ulmus crassifolia	30	Yes	FAC	Number of Dominant S That Are OBL, FACW,		
2. Celtis laevigata	10	No	FAC	(excluding FAC-):	4 (A)	
3. Prosopis glandulosa	40	Yes	FACU	Total Number of Domin	ant	
4				Species Across All Stra	•	
	80	= Total (	Cover	Percent of Dominant Si	pecies	
Sapling/Shrub Stratum (Plot size: 15'	c.	NT.	EVOL	That Are OBL, FACW,		
1. Prosopis glandulosa	- <del>5</del>	No No	FACU NI	Prevalence Index wor	ksheet:	
2. Bumelia lanuginosa 3. Ulmus crassifolia	50	Yes	FAC	Total % Cover of:		
					x 1 =	
45.				FACW species	x 2 =	
5	60	= Total (	Cover	FAC species	x 3 =	
Herb Stratum (Plot size: 5'	·	TO LOT	00101	FACU species	x 4 =	
1. Ambrosia trifida	_ 50	Yes	FAC	UPL species		
2. Elymus virginicus	50	Yes	FAC	Column Totals:	(A) (B)	
3. Cylindropuntia leptocaulis	_ 5	No	NI	Prevalence Index	= B/A =	
4				Hydrophytic Vegetation		
5				1 - Rapid Test for H	Hydrophytic Vegetation	
6				✓ 2 - Dominance Tes	et is >50%	
7				3 - Prevalence Inde	ex is ≤3.0 <sup>1</sup>	
8				4 - Morphological A	Adaptations <sup>1</sup> (Provide supporting	
9		· ——-			s or on a separate sheet)	
10.	105	- Total (	Cover	Problematic Hydro	phytic Vegetation¹ (Explain)	
Woody Vine Stratum (Plot size: 30' )		_ Total \	OUVEI		l and wetland hydrology must	
1. Cissus trifoliata		Yes	FACU	be present, unless distu	urbed or problematic.	
2				Hydrophytic		
	20	= Total	Cover	Vegetation Ye	s <u>√</u> No	
% Bare Ground in Herb Stratum				16		
Nomains.						
I .						

SOIL Sampling Point: T3-DP9

Profile Desc	ription: (Descri	be to the depth	needed to docun	nent the i	ndicator	or confirm	n the absence of	indicators.)
Depth	Matri			k Features				
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	<u>Loc²</u>	Texture	Remarks
0-10	10 YR 3/1	100					Clay	
								_
						-		
			<u>.</u>					
	-							
¹Type: C=Cc	ncentration. D=0	 Depletion, RM≒Re	educed Matrix, CS	=Covered	or Coate	d Sand G	rains. <sup>2</sup> Locat	ion: PL=Pore Lining, M=Matrix.
			Rs, unless other			a cana c		r Problematic Hydric Soils <sup>3</sup> :
Histosol				leyed Ma	•			ck (A9) (LRR I, J)
! —	ipedon (A2)			edox (S5)				airie Redox (A16) ( <b>LRR F, G, H</b> )
Black His				Matrix (S				face (S7) (LRR G)
	n Sulfide (A4)		Loamy N	lucky Min	eral (F1)		High Plai	ns Depressions (F16)
	Layers (A5) (LR			eleyed Ma				H outside of MLRA 72 & 73)
ı —	ck (A9) ( <b>LRR F</b> ,			d Matrix (F				Verlic (F18)
. —	Below Dark Sur			ark Surfad I Dark Sur				ent Material (TF2) Illow Dark Surface (TF12)
	ucky Mineral (S1			epression				rplain in Remarks)
1 —	lucky Peat or Pe			ins Depre		16)		hydrophytic vegetation and
	cky Peat or Peat			RA 72 & 7	,	,		ydrology must be present,
							unless di	sturbed or problematic.
1	ayer (if present	):						
Type: Cla			_					
Depth (inc	hes): <u>10"</u>		_				Hydric Soil Pr	esent? Yes No
Remarks:					<u> </u>			· · · · · · · · · · · · · · · · · · ·
	2)/						<del></del>	
HYDROLOG		<del></del>						
· ·	rology Indicato							
		f one required; c	heck all that apply			<del></del>		Indicators (minimum of two required)
	Vater (A1)		Salt Crust (	,				e Soil Cracks (B6)
-	er Table (A2)		Aquatic Inv		, ,			ly Vegetated Concave Surface (B8)
Saturation	, ,		Hydrogen S		, ,			ge Patterns (B10)
Water Ma	, ,		Dry-Seasor		, ,	Б.		ed Rhizospheres on Living Roots (C3)
	t Deposits (B2)		Oxidized R	-	es on Livi	ng Roots	` ,	re tilled)
Drift Depo	` '		(where n		d lunu (O4			h Burrows (C8)
	t or Crust (B4)		Presence o		•	)		tion Visible on Aerial Imagery (C9) orphic Position (D2)
Iron Depo	ก Visible on Aeri	al Imagen/ (B7)	Thin Muck   Other (Expl					
	ained Leaves (B		Other (Exp	alli III IXEI	ilaino)			eutral Test (D5) leave Hummocks (D7) ( <b>LRR F</b> )
Field Observ	· · · · · · · · · · · · · · · · · · ·	<u>''</u>	<del>-</del>					leave Hummocks (D7) (LKK F)
Surface Wate		Vas No	✓ Depth (inc	hae).				
Water Table F			✓ Depth (inc			I .		
			✓ Depth (inc					N /
Saturation Pre (includes capi		res NO	Deptir (inc	nes):		_   weti	and riverology P	resent? Yes No ✓
		am gauge, monito	oring well, aerial p	hotos, pre	vious ins	pections),	if available:	
Remarks:								



Data Point 1 Mesquite Grassland Mosaic



Data Point 1 Mesquite Grassland Mosaic



Data Point 2 Mesquite Grassland Mosaic

T3 - Page 1



Data Point 2 Mesquite Grassland Mosaic



Data Point 3 Sumpweed Depressions



Data Point 3 Sumpweed Depressions

T3 - Page 2



Data Point 4 Sumpweed Depressions



Data Point 5 Sumpweed Depressions



Data Point 5 Sumpweed Depressions

T3 - Page 3



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



Data Point 9 Riparian Woods (Cedar Elm/Oak)



Data Point 9
Riparian Woods (Cedar Elm/Oak)

Project/Site: 130 Environmental Park		City/Co	<sub>unty:</sub> Lockha	rt/Caldwell	Sampling Date: (	06/18/2013
•				State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandyn						
Landform (hillstope, terrace, etc.): None			·	-	Sloc	<sub>e (%):</sub> 0-1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: BuB - Burleson clay, 1 to 3 percel				NWI classifica		
Are climatic / hydrologic conditions on the site typical for thi						
Are Vegetation, Soil, or Hydrology s	-			"Normal Circumstances" pr		No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answer	·	
SUMMARY OF FINDINGS – Attach site map						aturac ata
Oblinia (1 of 1 individe) — Attach site map	SHOWING	Samp	ning point	ocations, transects,	- Important lea	atures, etc.
Hydrophytic Vegetation Present? Yes N			s the Sample	d Area		
Hydric Soil Present? Yes N	lo <u>√</u>	,	within a Wetla	nd? Yes	No <u>√</u>	
Wetland Hydrology Present? Yes N	lo <u>*</u>					
Remarks:						
VEGETATION - Use scientific names of plan	ıts.					
Tree Stratum (Plot size: 30'	Absolute		nant Indicator	Dominance Test works	sheet:	
1. Prosopis glandulosa	<u>% Cover</u> 50	Yes	es? Status FACU	Number of Dominant Sp That Are OBL, FACW, o		
	-			(excluding FAC-):	<u>0</u>	(A)
3				Total Number of Domina		
4				Species Across All Strat		(B)
_		= Total	Cover	Percent of Dominant Sp	orias	
Sapling/Shrub Stratum (Plot size: 15')				That Are OBL, FACW, o		(A/B)
1. Prosopis glandulosa	75	Yes	FACU	Prevalence Index work	sheet:	
2				Total % Cover of:		bv.
3				OBL species		
4				FACW species		
5	75	= Total	Cover	FAC species		
Herb Stratum (Plot size: 5'	-	- Total	Cover	FACU species	x 4 =	
1. Nassella leucotricha	80	Yes	NI NI	UPL species	x 5 =	
2. Opuntia engelmannii	_ 10	No	NI	Column Totals:	(A)	(B)
3. Cylindropuntia leptocaulis	_ 10	No	NI NI	Prevalence Index	= B/A =	
4. Ambrosia artemisiifolia		No	FACU	Hydrophytic Vegetation		
5				1 - Rapid Test for H		tion
6				2 - Dominance Test	· · · · · · · · · · · · · · · · · · ·	
7				3 - Prevalence Inde	x is ≤3.0 <sup>1</sup>	
8.				4 - Morphological A	daptations <sup>1</sup> (Provid	de supporting
9					or on a separate s	•
10	105	= Total	Cover	Problematic Hydrop	hytic Vegetation' (	(Explain)
Woody Vine Stratum (Pfot size: 30'		1000	00101	<sup>1</sup> Indicators of hydric soil		
1				be present, unless distu	bed or problemati	C
2				Hydrophytic		
% Bare Ground in Herb Stratum		= Total	Cover	Vegetation Yes	No_✓	
% Bare Ground in Herb Stratum						

(inches)	Matrix			x Features						
	Color (moist)		Color (moist)		Loc²	Texture -	Remarks			
	<del></del>	<del>'</del>		S=Covered or Coate	d Sand Grain		tion: PL=Pore Lining, M=Matr			
Histosol		icable to all LRI	Sandy (	Gleyed Matrix (S4)		1 cm Mu	or Problematic Hydric Soils <sup>3</sup> ick (A9) (LRR I, J)			
Black Hi		Stripped Matrix (S6)				rairie Redox (A16) ( <b>LRR F, G,</b> rface (S7) ( <b>LRR G</b> )	<b>H</b> )			
Stratified	n Sulfide (A4) d Layers (A5) ( <b>LRF</b> ick (A9) ( <b>LRR F, G</b>		Loamy	Mucky Mineral (F1) Gleyed Matrix (F2) d Matrix (F3)		(LRR	ins Depressions (F16)  H outside of MLRA 72 & 73)  Vertic (F18)	)		
Thick Da	d Below Dark Surfa ark Surface (A12) lucky Mineral (S1)		Deplete	Dark Surface (F6) d Dark Surface (F7) Depressions (F8)		<ul><li>Red Parent Material (TF2)</li><li>Very Shallow Dark Surface (TF12)</li><li>Other (Explain in Remarks)</li></ul>				
_	Aucky Peat or Peat cky Peat or Peat (			ains Depressions (F RA 72 & 73 of LRR	•	wetland I	f hydrophytic vegetation and hydrology must be present, isturbed or problematic.			
	aver /if areasant).						<del></del>			
Type: Depth (inc	ches):		- -			Hydric Soil P	resent? Yes No	<b>√</b>		
Type: Depth (inc			-			Hydric Soil P	resent? Yes No	✓		
Type: Depth (independent of the content of th	ches):		-			Hydric Soil P	resent? Yes No	✓		
Type: Depth (ind Remarks:  YDROLO Wetland Hyd	ches):	5:	eck all that appl	у)			resent? Yes No_	_		
Type: Depth (independent of the content of the	ches): GY drology Indicators	5:	eck all that appl			Secondary				
Type: Depth (ind Remarks:  YDROLO Wetland Hyd Primary Indic Surface	GY  drology Indicators sators (minimum of	5:	Salt Crust			Secondary	· Indicators (minimum of two re	eguire		
Type: Depth (ind Remarks:  YDROLO Wetland Hyd Primary Indic Surface	GY drology Indicators sators (minimum of Water (A1) ter Table (A2)	5:	Salt Crust Aquatic Inv	(B11)		Secondary Surfac Spars	v Indicators (minimum of two re ce Soil Cracks (B6)	eguire		
Type: Depth (ind Remarks:  YDROLO Wetland Hyd Surface High Wa Saturation	GY drology Indicators sators (minimum of Water (A1) ter Table (A2)	5:	Salt Crust Aquatic Inv	(B11) vertebrates (B13)		Secondary Surface Sparse	v Indicators (minimum of two re the Soil Cracks (B6) ely Vegetated Concave Surface	eguire		
Type: Depth (ind Remarks:  YDROLO Wetland Hyd Surface High Wa Saturatic Water M	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3)	5:	Salt Crust Aquatic Inv Hydrogen Dry-Seaso	(B11) vertebrates (B13) Sulfide Odor (C1)		Secondary Surfac Spars Draina	<u>r Indicators (minimum of two re</u> ce Soil Cracks (B6) ely Vegetated Concave Surfac age Patterns (B10)	equire		
Type: Depth (ind Remarks:  YDROLO  Wetland Hyd  Frimary Indic  Surface  High Wa  Saturatio  Water M  Sedimen	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1)	5:	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F	(B11) vertebrates (B13) Sulfide Odor (C1) on Water Table (C2)		Secondary Surfac Spars Draina Oxidiz (whe	r Indicators (minimum of two rece Soil Cracks (B6) ely Vegetated Concave Surfactage Patterns (B10) ed Rhizospheres on Living Roere tilled)	equire ce (B8 oots (C		
Type: Depth (ind Remarks:  YDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) tl Deposits (B2) oosits (B3) t or Crust (B4)	5:	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F (where r	(B11) vertebrates (B13) Sulfide Odor (C1) on Water Table (C2) Rhizospheres on Livi not tilled) of Reduced Iron (C4	ng Roots (C3	Secondary Surfac Spars Draina Oxidiz (whe	r Indicators (minimum of two re the Soil Cracks (B6) ely Vegetated Concave Surfac age Patterns (B10) ed Rhizospheres on Living Ro <b>ere tilled</b> )	equire ce (B8 oots (C		
Type: Depth (ind Remarks:  YDROLO Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5)	s: one required; ch	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F (where r Presence of Thin Muck	(B11) vertebrates (B13) Sulfide Odor (C1) on Water Table (C2) Rhizospheres on Livi not tilled) of Reduced Iron (C4 Surface (C7)	ng Roots (C3	Secondary  Surface Sparse Draina Oxidiz  (whee Crayfie Satura	r Indicators (minimum of two rece Soil Cracks (B6) ely Vegetated Concave Surfacting Patterns (B10) ed Rhizospheres on Living Ropere tilled) sh Burrows (C8) atton Visible on Aerial Imagery orphic Position (D2)	equired ce (B8) pots (C		
Type: Depth (ind Remarks:  YDROLO  Wetland Hyd Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) t or Crust (B4) cosits (B5) on Visible on Aeria	s: one required; ch	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F (where r Presence of Thin Muck	(B11) vertebrates (B13) Sulfide Odor (C1) on Water Table (C2) Rhizospheres on Livi not tilled) of Reduced Iron (C4	ng Roots (C3	Secondary Surface Spars Draina Oxidiz (wh Crayfie Satura Geom FAC-N	r Indicators (minimum of two rece Soil Cracks (B6) ely Vegetated Concave Surfacting Patterns (B10) ed Rhizospheres on Living Romere tilled) sh Burrows (C8) ation Visible on Aerial Imagery orphic Position (D2) Neutral Test (D5)	equired ce (B8) pots (C		
Type: Depth (ind Remarks:  YDROLO  Wetland Hyd Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Water-Si	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial rained Leaves (B9)	s: one required; ch	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F (where r Presence of Thin Muck	(B11) vertebrates (B13) Sulfide Odor (C1) on Water Table (C2) Rhizospheres on Livi not tilled) of Reduced Iron (C4 Surface (C7)	ng Roots (C3	Secondary Surface Spars Draina Oxidiz (wh Crayfie Satura Geom FAC-N	r Indicators (minimum of two rece Soil Cracks (B6) ely Vegetated Concave Surfacting Patterns (B10) ed Rhizospheres on Living Ropere tilled) sh Burrows (C8) atton Visible on Aerial Imagery orphic Position (D2)	equired ce (B8) pots (C		
Type:	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) earks (B1) at Deposits (B2) eosits (B3) t or Crust (B4) eosits (B5) en Visible on Aerial eained Leaves (B9) rations:	s: one required; ch	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F (where r Presence of Thin Muck Other (Exp	(B11) vertebrates (B13) Sulfide Odor (C1) on Water Table (C2) Rhizospheres on Livi not tilled) of Reduced Iron (C4 Surface (C7) blain in Remarks)	ng Roots (C3	Secondary Surface Spars Draina Oxidiz (wh Crayfie Satura Geom FAC-N	r Indicators (minimum of two rece Soil Cracks (B6) ely Vegetated Concave Surfacting Patterns (B10) ed Rhizospheres on Living Romere tilled) sh Burrows (C8) ation Visible on Aerial Imagery orphic Position (D2) Neutral Test (D5)	equired ce (B8) pots (C		
Type:	GY  drology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aeria ained Leaves (B9) rations: er Present?	s: one required; ch	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F (where r Presence c Thin Muck Other (Exp	(B11) vertebrates (B13) Sulfide Odor (C1) on Water Table (C2) Rhizospheres on Livi not tilled) of Reduced Iron (C4 Surface (C7) blain in Remarks)	ng Roots (C3	Secondary Surface Spars Draina Oxidiz (wh Crayfie Satura Geom FAC-N	r Indicators (minimum of two rece Soil Cracks (B6) ely Vegetated Concave Surfacting Patterns (B10) ed Rhizospheres on Living Romere tilled) sh Burrows (C8) ation Visible on Aerial Imagery orphic Position (D2) Neutral Test (D5)	equired ce (B8) pots (C		
Depth (ind Remarks:  IYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatic  Water M  Sedimen  Drift Dep  Algal Ma  Iron Dep	GY  drology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial ained Leaves (B9) vations: er Present? Present?	s: one required; ch	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F (where r Presence of Thin Muck Other (Exp	(B11) vertebrates (B13) Sulfide Odor (C1) on Water Table (C2) Rhizospheres on Livi not tilled) of Reduced Iron (C4 Surface (C7) blain in Remarks)	ng Roots (C3	Secondary  Surface Sparse Oxidize Crayfie Satura Geom FAC-N Frost-	r Indicators (minimum of two rece Soil Cracks (B6) ely Vegetated Concave Surfacting Patterns (B10) ed Rhizospheres on Living Romere tilled) sh Burrows (C8) ation Visible on Aerial Imagery orphic Position (D2) Neutral Test (D5)	equired ce (B8) pots (C (C9)		

Project/Site: 130 Environmental Park		City/Cou	<sub>inty:</sub> Lockha	rt/Caldwell	Sampling Date: 06/18/2013	
					Sampling Point: T4-DP2	
Investigator(s): Troegle, Josh & Littleton, Brandyn						
Landform (hillslope, terrace, etc.): None		Local re	elief (concave,	convex, none): 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					oresent? Yes ✓ No	
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map				-	,	
Hydrophytic Vegetation Present? Yes N	o 🗸					
Hydric Soil Present? Yes N			s the Sample		N ./	
Wetland Hydrology Present? Yes N	o <u>√</u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	vithin a Wetla	nd? Yes	No <u> </u>	
Remarks:						
VEGETATION III : 100						
VEGETATION – Use scientific names of plan						
Tree Stratum (Plot size: 30'	Absolute % Cover		ant Indicator	Dominance Test work		
1. Ulmus crassifolia	10	Yes	FAC	Number of Dominant Sp That Are OBL, FACW, of	or FAC	
2. Celtis laevigata	10	Yes	FAC	(excluding FAC-):	<u>3</u> (A)	
3. Prosopis glandulosa	25	Yes	FACU	Total Number of Domini		
4				Species Across All Stra	ta: <u>8</u> (B)	
151	45	= Total	Cover	Percent of Dominant Sp	pecies	
Sapling/Shrub Stratum (Plot size: 15 <sup>1</sup> )  1. Ulmus crassifolia	10	No	FAC	That Are OBL, FACW, o	or FAC: $37.5$ (A/B)	
2. Prosopis glandulosa	50	Yes	- FACU	Prevalence Index work	ksheet:	
3. Celtis laevigata	5	No	FAC	Total % Cover of:	Multiply by:	
4. Mahonia trifoliolata	15	No	NI	OBL species	x1=	
5.					x 2 =	
	80	= Total	Cover		x 3 =	
Herb Stratum (Plot size: 5'		•			x 4 =	
1. Nassella leucotricha	80	Yes	— NI		x 5 =	
2. Ambrosia artemisiifolia 3. Rudbeckia hirta	5	Yes No	FACU FACU	Column Totals:	(A) (B)	
3. Kuaveckia niria 4. Opuntia engelmannii	- <del>5</del>	No	NI	Prevalence Index	= B/A =	
5 Cylindropuntia leptocaulis	5	No	— NI	Hydrophytic Vegetation	n Indicators:	
· · · · · · · · · · · · · · · · · · ·				1 - Rapid Test for H	lydrophytic Vegetation	
6				2 - Dominance Tes	t is >50%	
8.				3 - Prevalence Inde		
9.				4 - Morphological A	daptations <sup>1</sup> (Provide supporting sor on a separate sheet)	
10.					ohytic Vegetation <sup>1</sup> (Explain)	
201	135	= Total	Cover		,	
Woody Vine Stratum (Plot size: 30')	10	V	TAC	'Indicators of hydric soil be present, unless distu	l and wetland hydrology must	
1. Smilax rotundifolia 2. Rubus trivialis	5	Yes	FAC FACU			
2. Kubus trivians	15			Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 5	13	= Total	Cover		s No	
Remarks:				<u> </u>		

Sampling Point: T4-DP2 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Texture Color (moist) (inches) <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ Histosol (A1) \_\_\_ Sandy Gleyed Matrix (S4) \_ 1 cm Muck (A9) (LRR I, J) Histic Epipedoл (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) <sup>3</sup>Indicators of hydrophytic vegetation and \_\_\_ High Plains Depressions (F16) \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): \_ **Hydric Soil Present?** Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) \_\_\_ High Water Table (A2) \_\_\_ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_\_ Saturation (A3) \_\_\_ Drainage Patterns (B10) \_ Hydrogen Sulfide Odor (C1) \_\_\_ Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) \_\_\_ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) \_\_\_ Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_ No ✓ Depth (inches): \_\_\_ Surface Water Present? Yes \_\_\_\_\_ No ✓ Depth (inches): \_\_\_\_\_ Water Table Present? Yes \_\_\_\_ No ✓ \_ Depth (inches): \_\_\_\_ Saturation Present? Wetland Hydrology Present? Yes \_\_\_\_ No √ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: 130 Environmental Park	,	City/Co	<sub>unty:</sub> Lockha	rt/Caldwell	Sampling Date: 06/	18/2013
Applicant/Owner: 130 Environmental Park, LLC					· · · ·	
Investigator(s): Troegle, Josh & Littleton, Brandy						
Landform (hilislope, terrace, etc.): Floodplain			-	_	ve Slope (	%): 2-4
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				eded, explain any answ		
SUMMARY OF FINDINGS – Attach site ma					·	
SOMMAN OF FINDINGS - Attach site ma	h showing	Samp	Jing point i	ocations, transect	s, important leatu	ires, etc.
Hydrophytic Vegetation Present? Yes ✓			ls the Sampled	l Area		
Hydric Soil Present? Yes ✓ Wetland Hydrology Present? Yes	No		within a Wetlar		No <u>√</u>	
Wetland Hydrology Present? Yes  Remarks:	No <u>▼</u>					
Remarks:						
VEGETATION – Use scientific names of pla	ants.					
Tree Stratum (Plot size: 30' )	Absolute		nant Indicator	Dominance Test wor	ksheet:	
1. Quercus stellata	50	Yes	es? Status FACU	Number of Dominant S That Are OBL, FACW,		
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	4	(B)
	145	= Total	Cover	Percent of Dominant S	Precios	
Sapling/Shrub Stratum (Plot size: 15' )				That Are OBL, FACW,		(A/B)
1. Ulmus crassifolia	75	Yes	FAC	Prevalence Index wo	rkehoot:	
2. Ailanthus altissima	5	No	FACU	Total % Cover of:		
3					x 1 =	
4					x2=	
5	80				x 3 =	
Herb Stratum (Plot size: 5' )		= lotai	l Cover		x 4 =	
1. Digitaria haller	2	No	NI	1	x 5 =	
2.					(A)	
3				Decomber to dec	- B/A	
4				Hydrophytic Vegetati	x = B/A =	
5					ion indicators: Hydrophytic Vegetatior	
6				✓ 2 - Dominance Te	- ,	1
7				3 - Prevalence Inc		
8					Adaptations <sup>1</sup> (Provide s	supporting
9					s or on a separate she	
10	_			Problematic Hydro	ophytic Vegetation <sup>1</sup> (Ex	plain)
Woody Vine Stratum (Plot size: 30'	2	= Total	l Cover	<sup>1</sup> Indicators of hydric so	il and wetland hydrolog	av must
1. Smilax rotundifolia	20	Yes	FAC	be present, unless dis	turbed or problematic.	,,
2.				Hydrophytic		
	20	= Total	l Cover	Vegetation		
% Bare Ground in Herb Stratum 75				Present? Ye	es No	-
Remarks:						

SOIL Sampling Point: T4-DP3

Profile Desc	cription: (Describ	e to the dep	th needed to doc	ument the	indicator	or confirr	n the absence of indica	ators.)
Depth (inches)	Matrix Color (moist)	%		dox Feature		Loc <sup>2</sup>	Taxtuma	December
(inches) 0-5	10 YR 4/1	100	Color (moist)	%	Type <sup>1</sup> _	LOC	<u>Texture</u> Clay	Remarks
			10 VP 6/9			- NA		<del></del> .
5-10	10 YR 4/1	_ 75	10 YR 6/8	5	_ <u>C</u>	_ <u>M</u>	Clay	
	10 YR 5/2							<del>_</del>
1= 0.0			D. I. INC.				. 21	
	oncentration, D=De Indicators: (Appl					ed Sand G		L=Pore Lining, M=Matrix. lematic Hydric Soils³:
Histosol				y Gleyed M			1 cm Muck (A9)	•
	oipedon (A2)			y Redox (S:				edox (A16) (LRR F, G, H)
	Black Histic (A3)			ed Matrix (	S6)		Dark Surface (S	
	n Sulfide (A4)			y Mucky Mi			High Plains Dep	
_	d Layers (A5) (LRF		,	y Gleyed M				side of MLRA 72 & 73)
I —	ick (A9) ( <b>LRR</b> F <b>, G</b> d Below Dark Surfa			ted Matrix ( x Dark Surf			Reduced Verfic Red Parent Mat	` '
	ark Surface (A12)	200 (7111)		ted Dark S		)	Very Shallow Da	•
Sandy M	lucky Mineral (S1)			x Depressio		•	Other (Explain i	
	Nucky Peat or Pea			Plains Depr				hytic vegetation and
5 cm Mu	icky Peat or Peat (	S3) ( <b>LRR F</b> )	(N	ILRA 72 &	73 of LRF	RH)		gy must be present,
Restrictive I	_ayer (if present):	ı		_			uniess disturbed	d or problematic.
i	zayer (ii present).							
1	ches):						Hydric Soil Present	? Yes <u>√</u> No
Remarks:							yarıo con r resent	. 163 10
T CONTIGUE								
							· · · · · · · · · · · · · · · · · · ·	
HYDROLO	GY 							
Wetland Hyd	drology Indicators	s:						
Primary Indic	ators (minimum of	one required	l; check all that ap	ply)			Secondary Indicat	tors (minimum of two required)
l <del></del>	Water (A1)		Salt Crus	` '			Surface Soil (	` ,
<del></del>	ter Table (A2)			Invertebrate	, ,			etated Concave Surface (B8)
Saturatio				n Sulfide O		,	Drainage Pat	` '
	arks (B1) it Deposits (B2)			son Water I Rhizosphe				zospheres on Living Roots (C3)
_	osits (B3)			e not tilled		ing Roots	(C3) (where tille Crayfish Burn	'
	t or Crust (B4)			e of Reduc		4)	=	sible on Aerial Imagery (C9)
Iron Dep				ck Surface	•	.,	✓ Geomorphic F	
	on Visible on Aeria	I Imagery (B7					FAC-Neutral	, ,
Water-St	tained Leaves (B9)	)					Frost-Heave I	Hummocks (D7) (LRR F)
Field Observ	/ations:							<u>.                                      </u>
Surface Wate			No ✓ Depth (			I		
Water Table			√ Depth (					
Saturation Pr		Yes 1	No 🗸 Depth (	inches):		Wetl	land Hydrology Present	t? Yes No <u>√</u>
(includes cap	ollary fringe) corded Data (strea	m daude mo	nitoring well, aeria	l photos p	revious ins	spections)	if available:	· · · · · · · · · · · · · · · · · · ·
		550, 1110		p	. 5 5 40 1116	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2	
Remarks:						w		
	ephemeral strea	m in riparia:	n corridor. Data	point take	n outside	of chann	iel.	
,5,5,5,7,7,7,0	,	p		,		U. U. MINI		

Project/Site: 130 Environmental Park		City/Co	ountv	: Lockhai	rt/Caldwell	Sampling Date: 06/	/18/2013
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: HmB - Heiden-Wilson complex, 1							
Are climatic / hydrologic conditions on the site typical for the							
Are Vegetation, Soil, or Hydrology					"Normal Circumstances"		_ No
Are Vegetation, Soil, or Hydrology					eeded, explain any answ	ŕ	
SUMMARY OF FINDINGS – Attach site map	showing	sam	plin	g point le	ocations, transect	s, important featu	ıres, etc.
Hydrophytic Vegetation Present? Yes N	No <b>√</b>		1 = 41		l Aman		
Hydric Soil Present? Yes N	40 <u>√</u>			e Sampled in a Wetlar		No <u>√</u>	
Wetland Hydrology Present? Yes N	√		WILL	iii a rretiai	1e3 <u></u>		
Remarks:		•					
VEGETATION – Use scientific names of plan	ıts		_				
VEGETATION — 636 3016Hallio Hallies of Plan	Absolute	Dom	inant	Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size: 30'	% Cover				Number of Dominant S		
1					That Are OBL, FACW,	or FAC 0	(4)
2					(excluding FAC-):		(A)
3					Total Number of Domi		(D)
4					Species Across All Str	ata: <u>-</u>	(B)
Sapling/Shrub Stratum (Plot size: 15' )		= Tota	af Cov	ver	Percent of Dominant S That Are OBL, FACW,		(A/B)
1. Prosopis glandulosa	30	Yes	_	FACU			(A/b)
2. Ulmus crassifolia	5	No		FAC	Prevalence Index wo		
3. Mahonia trifoliolata	5	No		NI		Multiply by	
4					1	x 1 =	
5					FACW species		
Herb Stratum (Plot size: 5'	40	= Tota	al Cov	ver	FACU species	x 3 =	
Monarda citriodora	90	Yes		NI	UPL species	-	<del></del>
2. Aristida purpurea	20	No		NI		(A)	—— (B)
3							
4						x = B/A =	
5.					Hydrophytic Vegetati		
6						Hydrophytic Vegetation	n
7					2 - Dominance Te		
8						iex is s3.0 Adaptations <sup>1</sup> (Provide :	
9					4 - Morphological data in Remark	ks or on a separate she	et)
10					Problematic Hydro	ophytic Vegetation¹ (Ex	plain)
Woody Vine Stratum (Plot size: 30')	110	= Tota	al Cov	ver .	<sup>1</sup> Indicators of hydric so	oil and wetland hydrolog	av muet
1					be present, unless dist		gy musi
2					Hydrophytic		
					Vegetation	,	
% Bare Ground in Herb Stratum					Present? Ye	esNo	
Remarks:							<u>-</u>

SOIL		Sampling Point: T4-DP4
Profile Description: (Describe to	the depth needed to document the indicator or c	confirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist)	% Color (moist) % Type <sup>1</sup> L	<u>oc<sup>2</sup> Texture Remarks</u>
1Time: C=Connectiation D=Deplet	DM-Daduard Natriy CC-Cayanad as Casted C	21 21 21 21 21 21 21 21 21 21 21 21 21 2
	on, RM=Reduced Matrix, CS=Covered or Coated S le to all LRRs, unless otherwise noted.)	Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	
Histic Epipedon (A2)	Sandy Redox (S5)	1 cm Muck (A9) (LRR I, J) 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 (A	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)	· · · · · · · · · · · · · · · · · · ·	, , , ,
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):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No ✓
Remarks:		
IVDDOLOCV		
IYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one		Secondary Indicators (minimum of two require
Surface Water (A1)	Salt Crust (B11)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Invertebrates (B13)	Sparsely Vegetated Concave Surface (B.
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Water Marks (B1)	Dry-Season Water Table (C2)	Oxidized Rhizospheres on Living Roots (
Sediment Deposits (B2)	Oxidized Rhizospheres on Living F	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 Ima	gery (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 <u>✓</u> Depth (inches):	
	No ✓ Depth (inches):	
	No ✓ Depth (inches):	Wetland Hydrology Present? Yes No ✓
(includes capillary fringe)		
	uge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:		

Project/Site: 130 Environmental Park		City/Co	ountv:	Lockha	rt/Caldwell	Sampling	Date: 06/	18/2013
Applicant/Owner: 130 Environmental Park, LLC		State: TX Sampling Point: T4-D						
Investigator(s): Troegle, Josh & Littleton, Brandy								
Landform (hillslope, terrace, etc.): Hillslope							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 the								
Are Vegetation, Soil, or Hydrology					"Normal Circumstances"		Vac J	No
Are Vegetation, Soil, or Hydrology					eeded, explain any answe			. 140
SUMMARY OF FINDINGS – Attach site map	showing	sam	pling	point l	ocations, transects	i, import	ant featu	res, etc.
Hydrophytic Vegetation Present? Yes	No ✓		1-41-	C				
Hydric Soil Present? Yes	No <u>√</u>			Sampled a Wetlar		No_	/	
Wetland Hydrology Present? Yes	No <u>✓</u>		WILLIII	i a vvetiai	iid: 165	NO_	<u>*</u>	
Remarks:								
VEGETATION – Use scientific names of pla	nte							
VEGETATION - Ose scientific flatfies of pla	Absolute	Dom	inant I	ndicator	Dominance Test work	(sheet:		
Tree Stratum (Plot size: 30'	% Cover				Number of Dominant S			
1. Celtis laevigata	10	Yes		FAC	That Are OBL, FACW,	or FAC	1	
2. Prosopis glandulosa		Yes		FACU	(excluding FAC-):	-	'	(A)
3	_				Total Number of Domir		5	(D)
4					Species Across All Stra	ita:		(B)
Sapling/Shrub Stratum (Plot size: 151 )	20	_= Tota	al Cove	r	Percent of Dominant S		20	(A (D)
1. Prosopis glandulosa	40	Yes		FACU	That Are OBL, FACW,	or FAC: _		(A/B)
2. Juniperus virginiana	5	No		UPL	Prevalence Index wo			
3.					Total % Cover of:			
4					OBL species			
5					FACW species			•
Unit Objective (Blad sizes 51	45	= Tota	al Cove	r	FAC species			
Herb Stratum (Plot size: 5'  1. Opuntia engelmannii	15	No		NI				
2. Nassella leucotricha	80	Yes		NI	Column Totals:		=	
3 Monarda citriodora	30	Yes		NI				
4.					Prevalence Index			
5.					Hydrophytic Vegetati			
6.					1 - Rapid Test for		: Vegetation	1
7.					2 - Dominance Te			
8					3 - Prevalence Ind		1 (0 )	
9.					4 - Morphological / data in Remark			
10					Problematic Hydro	phytic Vegi	etation¹ (Ex	plain)
Woody Vine Stratum (Plot size: 30' )	125	= Tota	al Cove	r	<sup>1</sup> Indicators of hydric so	il and watta	nd bydrolog	w muct
					be present, unless dist			jy musi
1					Hydrophytic			
2		= Tota	al Cove	ır	Vegetation			
% Bare Ground in Herb Stratum 10					Present? Ye	:s	No <u>√</u>	-
Remarks:								

Sampling Point: T4-DP5 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features % Color (moist) % Type¹ Loc² Texture (inches) Color (moist) <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: 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 Verlic (F18) \_\_\_ Depleted Below Dark Surface (A11) \_\_\_ Redox Dark Surface (F6) Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Thick Dark Surface (A12) \_\_ Redox Depressions (F8) Sandy Mucky Mineral (S1) Other (Explain in Remarks) \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_\_\_ High Plains Depressions (F16) <sup>3</sup>Indicators of hydrophytic vegetation and \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): Hydric Soil Present? Yes \_\_\_\_ No ✓ Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) \_\_ Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_ Saturation (A3) \_ Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) \_\_\_ Dry-Season Water Table (C2) \_\_\_ Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) (where tilled) \_\_\_ Drift Deposits (B3) (where not tilled) \_\_\_ Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) \_\_\_ Iron Deposits (B5) Thin Muck Surface (C7) \_\_\_ Geomorphic Position (D2) \_\_\_ Inundation Visible on Aerial Imagery (B7) \_\_\_ Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) \_ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes No ✓ Depth (inches): Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_\_ Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches); \_\_\_\_ Saturation Present? Wetland Hydrology Present? Yes \_\_\_\_\_ No ✓ \_ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: 130 Environmental Park		City/County:	Lockha	rt/Caldwell	Sampling Date: 06/18/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T4-DP6
Investigator(s): Troegle, Josh & Littleton, Brandyr					
Landform (hillslope, terrace, etc.): Floodplain					e Slone (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: Ts - Tinn soils, frequently flooder				NWI classific	
Are climatic / hydrologic conditions on the site typical for the					
Are Vegetation, Soil, or Hydrology	-				present? Yes_✓ No
Are Vegetation, Soil, or Hydrology				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map			,		,
			•	·	
Hydrophytic Vegetation Present? Yes  Hydric Soil Present? Yes		ls th	e Sampled		,
Hydric Soil Present? Yes  Wetland Hydrology Present? Yes	No ✓	with	in a Wetlar	nd? Yes	No <u>√</u>
Remarks:				· .	
VEGETATION – Use scientific names of pla					
Tree Stratum (Plot size: 30'	Absolute % Cover	Dominant Species?		Dominance Test work	
1. Ulmus crassifolia	20	Yes	FAC	Number of Dominant Sp That Are OBL, FACW, of	or FAC
2. Prosopis glandulosa	30	Yes	FACU	(excluding FAC-):	<u>2</u> (A)
3. Celtis laevigata	10	No	FAC	Total Number of Domin	
4				Species Across All Stra	ita: 5 (B)
151	60	= Total Cov	/er	Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size: 15' )  1. Celtis laevigata	20	Yes	FAC	That Are OBL, FACW,	or FAC: 40 (A/B)
				Prevalence Index wor	ksheet:
3				Total % Cover of:	Multiply by:
4				OBL species	x1=
5				1	x 2 =
	20	= Total Cov	/er		x 3 =
Herb Stratum (Plot size: 5'	40	17	NIT		x 4 =
1. Nassella leucotricha	$-\frac{40}{30}$	Yes Yes	NI NI		x 5 =
2. Croton monanthogynus				Column Totals;	(A) (B)
3				Prevalence Index	= B/A =
4.       5.				Hydrophytic Vegetation	on Indicators:
6				1 - Rapid Test for H	, , , ,
7				2 - Dominance Tes	
8.				3 - Prevalence Inde	
9				4 - Morphological A	Adaptations <sup>1</sup> (Provide supporting sor on a separate sheet)
10					phytic Vegetation <sup>1</sup> (Explain)
30'	70	= Total Cov	/er		
Woody Vine Stratum (Plot size: 30'				be present, unless distu	I and wetland hydrology must urbed or problematic.
1				Hydrophytic	-
2		= Total Cov		Vegetation	
% Bare Ground in Herb Stratum 40				Present? Yes	s No <u> </u>
Remarks:				•	·
1					· ·

SOIL Sampling Point: T4-DP6 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (maist) % Type<sup>1</sup> Lac<sup>2</sup> (inches) Color (moist) Texture 0-10 10 YR 2/1 100 Clay <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ Sandy Gleyed Matrix (S4) \_\_\_ 1 cm Muck (A9) (LRR I, J) \_\_\_ Histosol (A1) 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) \_\_\_ High Plains Depressions (F16) 3 Indicators of hydrophytic vegetation and \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Clay pan Depth (inches): Ten Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) \_\_\_ High Water Table (A2) \_\_\_ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_\_ Saturation (A3) Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) \_\_\_ Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) \_\_\_ Crayfish Burrows (C8) Drift Deposits (B3) (where not tilled) \_\_\_ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) ✓ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_ No ✓ Depth (inches): \_\_\_ Surface Water Present? Yes \_\_\_\_\_ No <u>✓</u> Depth (inches): \_\_\_\_\_\_ Water Table Present? Yes \_\_\_\_\_ No \_ Depth (inches): Saturation Present? Wetland Hydrology Present? Yes \_\_\_\_ No ✓ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: 130 Environmental Park		City/Co	ounty:	Lockha	rt/Caldwell	Sampling Dat	e: 06/18/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX		•
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: HoC2 - Houston Black clay, 3 to 5	_				·		
Are climatic / hydrologic conditions on the site typical for this							
Are Vegetation, Soil, or Hydrology s					"Normal Circumstances" p	*	✓ No
Are Vegetation, Soil, or Hydrology n					eded, explain any answe	-	
SUMMARY OF FINDINGS – Attach site map					•		•
			•		<u> </u>		
Hydrophytic Vegetation Present? Yes ✓ No.  Hydric Soil Present? Yes ✓ No.	·		Is the	Sampled			
	D		withi	n a Wetlar	nd? Yes <u>√</u>	No	
Remarks:			-		<del></del>		
VEGETATION – Use scientific names of plan		-			1		
Tree Stratum (Plot size: 30'	Absolute <u>% Cover</u>			Indicator Status	Dominance Test work		
1	•				Number of Dominant Sp That Are OBL, FACW, of	or FAC	
2					(excluding FAC-):	2	(A)
3					Total Number of Domin		
4					Species Across All Stra	ta: <u>3</u>	(B)
Sapling/Shrub Stratum (Plot size: 15'		= Tota	al Cove	er	Percent of Dominant Sp		
1. Prosopis glandulosa	40	Yes		FACU	That Are OBL, FACW, o	or FAC: 66_	(A/B)
2. Ulmus crassifolia	5	No		FAC	Prevalence Index worl	ksheet:	
3. Juniperus virginiana	5	No		UPL	Total % Cover of:		tiply by:
4					OBL species		
5					FAC appeies		
Herb Stratum (Plot size: 5' )	50	= Tota	al Cove	er	FAC species		
1 Iva annua	50	Yes		FAC	UPL species		<del></del> _
2. Eleocharis palustris	50	Yes		OBL	Column Totals:	— (A)	(B)
3. Carex brevior	10	No		FAC			
4					Prevalence Index		
5	. <u></u>				Hydrophytic Vegetatio		
6					1 - Rapid Test for H  ✓ 2 - Dominance Tes		getation
7					3 - Prevalence Inde		
8					4 - Morphological A		rovide supporting
9.					data in Remarks	or on a separ	ate sheet)
10		= Tota			Problematic Hydrop	hytic Vegetation	on¹ (Explain)
Woody Vine Stratum (Plot size: 30'		- 100	ai ÇUVE	71	<sup>1</sup> Indicators of hydric soil	and wetland h	ydrology must
1					be present, unless distu	rbed or proble	matic.
2					Hydrophytic		
9/ Page County in Harb Stratum		= Tota	al Cove	∍r	Vegetation   Present? Yes	s_√ No	
% Bare Ground in Herb Stratum							
Sapling/shrub at edge of depression.							

Sampling Point: T4-DP7 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> (inches) \_\_\_% Texture 0-5 10 YR 2/1 90 5 YR 6/8 10 С M/PL Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: Sandy Gleyed Matrix (S4) Histosol (A1) \_\_\_ 1 cm Muck (A9) (LRR f, J) \_\_\_ Sandy Redox (S5) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR F, G, H) \_\_\_ Stripped Matrix (S6) Black Histic (A3) \_\_\_ Dark Surface (S7) (LRR G) \_\_\_ Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) \_\_\_ High Plains Depressions (F16) \_\_\_ Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR F) (LRR H outside of MLRA 72 & 73) 1 cm Muck (A9) (LRR F, G, H) Depleted Matrix (F3) Reduced Vertic (F18) 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) \_\_\_ High Plains Depressions (F16) <sup>3</sup>Indicators of hydrophytic vegetation and \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present):

Type: Cobble	
Depth (inches): Five	Hydric Soil Present? Yes ✓ No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Salt Crust (B11)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Invertebrates	(B13) Sparsely Vegetated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide Odd	or (C1) Drainage Patterns (B10)
Water Marks (B1) Dry-Season Water Ta	ble (C2) Oxidized Rhizospheres on Living Roots (C3)
Sediment Deposits (B2)   ✓ Oxidized Rhizosphere	es on Living Roots (C3) (where tilled)
Drift Deposits (B3) (where not tilled)	Craytish Burrows (C8)
Algal Mat or Crust (B4) Presence of Reduced	
Iron Deposits (B5) Thin Muck Surface (C	. ,
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	parks) 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 <u>√</u> Depth (inches):	
Saturation Present? Yes No ✓ Depth (inches): (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	rious inspections), if available:
Remarks:	
JS Army Corps of Engineers	Great Plains – Version 2.0

Project/Site: 130 Environmental Park		City/Cot	<sub>inty:</sub> Lockhai	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					ve Slope (%); 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: HoC2 - Houston Black clay, 3 to					
Are climatic / hydrologic conditions on the site typical for th			_		
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ	
SUMMARY OF FINDINGS – Attach site map					
Hydrophytic Vegetation Present? Yes ✓	No	Π.			
Hydric Soil Present? Yes ✓	No		s the Sampled vithin a Wetlar		No
Wetland Hydrology Present? Yes ✓ N	No	"	villilli a vvellai	iid: res	140
Remarks:					
					<del> </del>
VEGETATION - Use scientific names of plan	ıts.				
	Absolute	Domin	ant Indicator	Dominance Test wor	rksheet:
Tree Stratum (Plot size: 30'	% Cover	Specie	es? <u>Status</u>	Number of Dominant	Species
1				That Are OBL, FACW	
2				(excluding FAC-);	<u>Z</u> (A)
3.				Total Number of Dom	
4				Species Across All St	rata; <u>3</u> (B)
Sapling/Shrub Stratum (Plot size: 15' )		= Total	Cover	Percent of Dominant	
1. Prosopis glandulosa	40	Yes	FACU	That Are OBL, FACW	, or FAC: 66 (A/B)
2. Ulmus crassifolia	5	No	FAC	Prevalence Index wo	orksheet:
3. Juniperus virginiana	5	No	UPL	Total % Cover of	Multiply by:
4				OBL species	x 1 =
5.					x 2 =
	50	= Total	Cover		x 3 =
Herb Stratum (Plot size: 5'					x 4 =
1. Iva annua	_ 50	Yes	FAC		x 5 =
2. Eleocharis palustris	50	Yes	OBL FAC	Column Totals:	(A) (B)
3. Carex brevior	_ 10	No	FAC	Prevalence Inde	ex = B/A =
4		<del></del>		Hydrophytic Vegetar	
5		_		, , ,	Hydrophytic Vegetation
6				✓ 2 - Dominance To	, , , ,
7				3 - Prevalence In	
8				4 - Morphological	Adaptations <sup>1</sup> (Provide supporting
9				data in Remar	ks or on a separate sheet)
10				Problematic Hydr	ophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30')		= Total			oil and wetland hydrology must sturbed or problematic.
1					
2				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum		= Total	Cover	Present? Y	es <u>√</u> No
Remarks:					
Sapling/shrub at edge of depression.					

Sampling Point: T4-DP7

c	$\boldsymbol{\cap}$	п	
J	v	Ш	_

Profile Desc	cription: (Describe	to the depth n	eeded to docu	ment the i	ndicator	or confirm	the absence of	indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10 YR 2/1	_ <del>90 _ 5`</del>	YR 6/8	10	<u> </u>	M/PL	Clay _	
				-				·
i ——								
l ———								
<sup>1</sup> Type: C=C	oncentration, D=De	oletion, RM=Re	duced Matrix, C	S=Covere	d or Coate	ed Sand Gr	rains. <sup>2</sup> Locati	ion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LRF	Rs, unless othe	rwise not	ed.)		Indicators for	r Problematic Hydric Soils <sup>3</sup> :
Histosol				Gleyed Ma			1 cm Mud	ck (A9) ( <b>LRR I, J</b> )
	pipedon (A2)			Redox (S5	•			airie Redox (A16) ( <b>LRR F, G, H</b> )
	istic (A3)			d Matrix (S				face (S7) (LRR G)
	en Sulfide (A4) d Layers (A5) ( <b>LRR</b>	E\		Mucky Mir Gleyed Ma				ns Depressions (F16)  H outside of MLRA 72 & 73)
	ick (A9) (LRR F, G,			ed Matrix (I				Vertic (F18)
1 —	d Below Dark Surfac		✓ Redox	•	,			ent Material (TF2)
	ark Surface (A12)	,		d Dark Su		)		llow Dark Surface (TF12)
	lucky Mineral (S1)			Depressio				rplain in Remarks)
	Mucky Peat or Peat			ains Depre	•	,		hydrophytic vegetation and
5 cm Mu	icky Peat or Peat (S	3) (LRR F)	(ML	RA 72 & 7	73 of LRR	( H)		ydrology must be present,
Restrictive I	Layer (if present):						uniess dis	sturbed or problematic.
Type: Co								
	ches): Five		-				Undria Cail Dr	
Remarks:	ones j.		<del>-</del>				Hydric Soil Pr	esent? Yes No
Nemarks.								
		<del> </del>	<del></del>					
HYDROLO	GY							
Wetland Hyd	drology Indicators:							<del>-</del>
Primary India	ators (minimum of c	ne required; ch	eck all that appl	y)			Secondary	Indicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surface	e Soil Cracks (B6)
High Wa	iter Table (A2)		Aquatic In	vertebrate	s (B13)		Sparse	ly Vegetated Concave Surface (B8)
Saturatio	on (A3)		Hydrogen	Sulfide Od	dor (C1)		Drainag	ge Patterns (B10)
Water M	arks (B1)		Dry-Seaso					ed Rhizospheres on Líving Roots (C3)
_	nt Deposits (B2)		✓ Oxidized F	Rhizosphei	res on Livi	ing Roots (		re tilled)
	osits (B3)		,	not tilled)				h Burrows (C8)
	it or Crust (B4)		Presence		•	1)		ion Visible on Aerial Imagery (C9)
	osits (B5)		Thin Muck	,	,			orphic Position (D2)
	on Visible on Aerial I	magery (B7)	Other (Exp	olain in Re	marks)			eutral Test (D5)
	tained Leaves (B9)					·	Frost-H	leave Hummocks (D7) (LRR F)
Field Observ								
Surface Wate			Depth (in					
Water Table			Depth (in-			I		
Saturation Pr		esNo_	Depth (in	ches):		_ Wetla	and Hydrology P	resent? Yes ✓ No No
(includes cap Describe Rec	orded Data (stream	gauge, monito	ring well, aerial i	ohotos, pre	evious ins	pections), i	if available:	
	and the second	2g-, monto	3			r 2000/10/, 1	, aramano,	
Remarks:						**		

Project/Site: 130 Environmental Park	(	City/Co	ounty:	Lockhai	rt/Caldwell	_ Sampling E	oate: 06/19/201	3
Applicant/Owner: 130 Environmental Park, LLC					State: TX			
Investigator(s): Troegle, Josh & Littleton, Brandyn								
Landform (hillslope, terrace, etc.): Depression						ve	Slope (%): 0-1	 I
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: HoC2 - Houston Black clay, 3 to 5	_							<u> </u>
•							<u> </u>	_
Are climatic / hydrologic conditions on the site typical for thi								
Are Vegetation, Soil, or Hydrology s					'Normal Circumstances'			
Are Vegetation, Soil, or Hydrology r	naturally pro	blemat	itic?	(If ne	eeded, explain any answ	ers in Remark	ks.)	
SUMMARY OF FINDINGS – Attach site map	showing	sam	pling	point l	ocations, transect	s, importa	nt features, e	tc.
Hydrophytic Vegetation Present? Yes ✓ N	lo.							
Hydric Soil Present? Yes N				Sampled		/	,	
Wetland Hydrology Present? Yes ✓ N	10		within	a Wetlar	nd? Yes	No <u>√</u>		
Remarks:								
								_
VEGETATION - Use scientific names of plan	ıts.							
201	Absolute	Domi	inant li	ndicator	Dominance Test wo	rksheet:		_
Tree Stratum (Plot size: 30'	<u>% Cover</u>	Spec	cies?	Status_	Number of Dominant			
1					That Are OBL, FACW	, or FAC 3	(4)	١
2					(excluding FAC-):		(A)	ļ
3					Total Number of Dom			
4					Species Across All St	rata: <u>5</u>	(B)	
D 15 151 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		= Tota	al Cove	r	Percent of Dominant		0	
Sapling/Shrub Stratum (Plot size: 15' )	50	Yes	1	FACU	That Are OBL, FACW	, or FAC: <u>b</u>	0(A/I	В)
1. <u>Prosopis glandulosa</u> 2. Celtis laevigata	5	No		FAC	Prevalence Index wo	orksheet:		_
3. Ulmus crassifolia	5	No		FAC	Total % Cover of	<u> </u>	Multiply by:	
Juniperus virginiana	- <del>5</del>	No		JPL	OBL species	x 1 =	:	
5. Mahonia trifoliolata	- 5	No		NI NI	FACW species	x 2 =	·	
5. Manoma ir ijonolaid	70				FAC species			
Herb Stratum (Plot size: 5')		= Tota	al Cove	Г	FACU species	x4=	:	
1 Iva annua	60	Yes	1	FAC		x 5 =		
2 Eleocharis palustris	60	Yes		OBL	Column Totals:			3}
Phanopyrum gymnocarpon	60	Yes		OBL				,
4.					Prevalence Inde			
5					Hydrophytic Vegeta			
6.					1 - Rapid Test for	- , .	Vegetation	
7					✓ 2 - Dominance To			
8.					3 - Prevalence In			
9					4 - Morphologica data in Rema	Adaptations	(Provide supporti	ng
10.					Problematic Hydr			
	180	= Tota	al Cove		Froblematic Hydi	opriyus veget	adon (Explain)	
Woody Vine Stratum (Plot size: 30' )					<sup>1</sup> Indicators of hydric s			
1. Rubus trivialis	10	Yes		FACU	be present, unless dis	sturbed or prof	blematic.	
2					Hydrophytic			
		= Tota	al Cove	r	Vegetation Present?	′es <u>√</u>	No	
% Bare Ground in Herb Stratum					i lesetit!			
Remarks:								
Sapling/shrub on perimeter of depression.								

Sampling Point: T4-DP9 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) (inches) Color (moist) Type<sup>1</sup> Texture 10 YR 2/1 10 YR 5/1 0-4 95 5 M D Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: 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) Stripped Matrix (S6) \_\_\_ Dark Surface (S7) (LRR G) Black Histic (A3) \_\_\_ Loamy Mucky Mineral (F1) High Plains Depressions (F16) Hydrogen Sulfide (A4) \_\_\_ Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR F) (LRR H outside of MLRA 72 & 73) \_\_ Depleted Matrix (F3) 1 cm Muck (A9) (LRR F, G, H) Reduced Vertic (F18) \_\_ Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) \_\_\_ Redox Depressions (F8) Sandy Mucky Mineral (S1) Other (Explain in Remarks) \_\_\_ High Plains Depressions (F16) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) Indicators of hydrophytic vegetation and \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Cobble Depth (inches): Four Hydric Soil Present? Yes Remarks: Soil is crumbly. **HYDROLOGY** 

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
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 Saturation (A2) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks) Water-Stained Leaves (B9)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Oxidized Rhizospheres on Living Roots (C3)</li> </ul>
Field Observations:  Surface Water Present? Yes No _ ✓ Depth (inches):  Water Table Present? Yes No _ ✓ Depth (inches):  Saturation Present? Yes No _ ✓ Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes <u>√</u> No

Project/Site: 130 Environmental Park		City/Coun	ty: Lockha	rt/Caldwell	Sampling Date: 06/19/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T4-DP10
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Depression					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 Hydrologys					oresent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map					
Li i i i i i i i i i i i i i i i i i i	<del></del>				
Hydrophytic Vegetation Present? Yes ✓ N Hydric Soil Present? Yes ✓ N			the Sampled		
Wetland Hydrology Present? Yes ✓ N		wi	thin a Wetlar	nd? Yes <u>▼</u>	No
Remarks:					<del></del>
VECTOR III	4-	<u> </u>			
VEGETATION – Use scientific names of plan				· · · · · · · · · · · · · · · · · · ·	
Tree Stratum (Plot size: 30'	Absolute % Cover		nt Indicator <u>Status</u>	Dominance Test work	
1				Number of Dominant S That Are OBL, FACW,	or FAC
2				(excluding FAC-):	<u>1</u> (A)
3.				Total Number of Domir	
4				Species Across All Stra	ata: <u>2</u> (B)
15t		= Total C	over	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 15' )	15	No	NI	That Are OBL, FACW,	or FAC: 50 (A/B)
1. Diospyros texana 2 Prosopis glandulosa	50	Yes	FACU	Prevalence Index wor	ksheet:
3 Mahonia trifoliolata	10	No	NI	Total % Cover of:	Multiply by:
4.				OBL species	x 1 =
5					x 2 =
	85	= Total C	over		x 3 =
Herb Stratum (Plot size: 5'	85	Van	OBL		x 4 =
1. Eleocharis palustris	15	Yes No	OBL		x 5 =
2. Phanopyrum gymnocarpon				Column Totals.	(A) (B)
3				Prevalence Index	: = B/A =
5				Hydrophytic Vegetation	on Indicators:
6				1 - Rapid Test for I	•
7				✓ 2 - Dominance Tes	
8				3 - Prevalence Ind	
9.				4 - Morphological /	Adaptations <sup>1</sup> (Provide supporting sor on a separate sheet)
10					phytic Vegetation <sup>1</sup> (Explain)
201	95	= Total C	over		
Woody Vine Stratum (Plot size: 30'				be present, unless dist	il and wetland hydrology must urbed or problematic.
1				Undraphidia	
2			over	Hydrophytic Vegetation	,
% Bare Ground in Herb Stratum		- 10tal C		Present? Ye	s <u>✓ No</u>
Remarks:				•••	
Sapling/shrub at perimeter of depression.					

SOIL

Sampling Point: T4-DP10

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

(inches)	Color (moist)	%	Red Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10 YR 2/1	95	10 YR 5/8	5	С	М	Clay	
			_					
			* * *****					
				_				
				_				
	oncentration, D=Dep					d Sand G		on: PL=Pore Lining, M=Matrix.
Histosol	Indicators: (Applic	able to all L			•			Problematic Hydric Soils <sup>3</sup> :
	pipedon (A2)		-	Gleyed Ma Redox (S5	- ,			k (A9) (LRR I, J) iirie Redox (A16) (LRR F, G, H)
Black Hi				ed Matrix (S	*			ace (S7) (LRR G)
	en Sulfide (A4)			Mucky Mir				ns Depressions (F16)
_	Layers (A5) (LRR	•		Gleyed Ma				d outside of MLRA 72 & 73)
	ick (A9) ( <b>LRR F, G,</b> d Below Dark Surfac			ed Matrix (f : Dark Surfa	,		Reduced	Vertic (F18) nt Material (TF2)
	ark Surface (A12)	c (ATT)		ed Dark Su				low Dark Surface (TF12)
	lucky Mineral (S1)			Depression	` '			plain in Remarks)
	Mucky Peat or Peat			lains Depre				nydrophytic vegetation and
5 cm Mu	icky Peat or Peat (S	3) (LRR F)	(M)	LRA 72 & 7	3 of LRR	H)		/drology must be present,
Restrictive L	_ayer (if present):						uniess dis	turbed or problematic.
Type: Co							}	
- · · -	ches): Five						Hydric Soil Pr	esent? Yes ✓ No
Remarks:								
remarko.								
remarks.								
	GV							
HYDROLO								
HYDROLO Wetland Hyd	drology Indicators:		abook oil that are	da)			Canada	
HYDROLO Wetland Hyo Primary Indic	drology Indicators: ators (minimum of c							Indicators (minimum of two required)
HYDROLO Wetland Hyo Primary Indic	drology Indicators: ators (minimum of c Water (A1)		Salt Crus	t (B11)	e (B13)		Surface	Soil Cracks (B6)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa	drology Indicators: eators (minimum of c Water (A1) ter Table (A2)		Salt Crus Aquatic Ir	t (B11) rvertebrate			Surface Sparse	Soil Cracks (B6) y Vegetated Concave Surface (B8)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturation	drology Indicators: eators (minimum of c Water (A1) ter Table (A2)		Salt Crus Aquatic Ir Hydroger	t (B11) nvertebrate n Sulfide Oc	lor (C1)		Surface Sparse Drainag	e Soil Cracks (B6) ly Vegetated Concave Surface (B8) ge Patterns (B10)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatic  Water M	drology Indicators: eators (minimum of c Water (A1) ter Table (A2) on (A3)		Salt Crus Aquatic Ir Hydroger	t (B11) nvertebrate n Sulfide Od on Water T	dor (C1) able (C2)	ng Roots	Surface Sparse Drainaç Oxidize	Soil Cracks (B6) y Vegetated Concave Surface (B8)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatio  Water M  Sedimen	drology Indicators: eators (minimum of c Water (A1) ter Table (A2) on (A3) arks (B1)		Salt Crus Aquatic Ir Hydroger Dry-Seas Oxidized	t (B11) nvertebrate n Sulfide Od on Water T	dor (C1) able (C2)	ng Roots	Surface Sparse Drainag Oxidize (C3) (whe	Soil Cracks (B6) ly Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatic  Water M  Sedimen  Drift Dep	drology Indicators: cators (minimum of compared to the compare		Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where	t (B11) nvertebrate n Sulfide Od on Water T Rhizospher	dor (C1) able (C2) res on Livi		Surface Sparse Drainag Oxidize (C3) (whe Crayfisl	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3) re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatic  Water M  Sedimen  Drift Dep  Algal Ma	drology Indicators: cators (minimum of c Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) osits (B5)	one required;	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc	t (B11) nvertebrate n Sulfide Oc on Water T Rhizospher not tilled) of Reduce k Surface (	dor (C1) lable (C2) res on Livi d Iron (C4 C7)		Surface Sparse Drainag Oxidize (C3) (whe Crayfish Saturat Geomo	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3) re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatio  Water M  Sedimen  Drift Dep  Algal Ma  Iron Dep	trology Indicators: tators (minimum of c Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) tosits (B3) at or Crust (B4) osits (B5) on Visible on Aerial I	one required;	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc	t (B11) nvertebrate n Sulfide Oc on Water T Rhizospher not tilled)	dor (C1) lable (C2) res on Livi d Iron (C4 C7)		Surface Sparse Drainag Oxidize  (C3) (whe Crayfis  Saturat Geomo	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3) re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatio  Water M  Sedimen  Drift Dep  Algal Ma  Iron Dep  Inundatio  Water-Si	trology Indicators: tators (minimum of c Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) tor Crust (B4) osits (B5) on Visible on Aerial I tained Leaves (B9)	one required;	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc	t (B11) nvertebrate n Sulfide Oc on Water T Rhizospher not tilled) of Reduce k Surface (	dor (C1) lable (C2) res on Livi d Iron (C4 C7)		Surface Sparse Drainag Oxidize  (C3) (whe Crayfis  Saturat Geomo	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3) re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatio  Water M  Sedimen  Drift Dep  Algal Ma  Iron Dep  Inundatio  Water-Si  Field Observ	drology Indicators: actors (minimum of control (Mater (A1)) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial I dained Leaves (B9) vations:	one required; Imagery (B7)	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Oc on Water T Rhizospher not tilled) of Reduce k Surface (c plain in Re	dor (C1) rable (C2) res on Livi d Iron (C4 C7) marks)	)	Surface Sparse Drainag Oxidize  (C3) (whe Crayfis  Saturat Geomo	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3) re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatic  Water M  Sedimen  Drift Dep  Algal Ma  Iron Dep  Inundatic  Water-St  Field Observ  Surface Water	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial I cations: er Present?	Imagery (B7)	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Oc on Water T Rhizosphei not tilled) of Reduce k Surface ( cplain in Re	dor (C1) rable (C2) res on Livi d Iron (C4 C7) marks)	)	Surface Sparse Drainag Oxidize  (C3) (whe Crayfis  Saturat Geomo	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3) re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5)
Wetland Hyde Primary Indice Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Water-Si Field Observ Surface Water	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) arks (B1) to Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial I cained Leaves (B9) vations: er Present? Y	Imagery (B7)  'es N  'es N	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Oc on Water T Rhizospher not tilled) of Reduce k Surface (c cplain in Re	dor (C1) rable (C2) res on Livi d Iron (C4 C7) marks)	)	Surface Sparse Drainag Oxidize (C3) (whe Crayfise ✓ Saturat ✓ Geomo FAC-Ne Frost-H	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3) re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatic  Water M  Sedimen  Drift Dep  Algal Ma  Iron Dep  Inundatic  Water-St  Field Observ  Surface Water	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) cosits (B3) ot or Crust (B4) cosits (B5) on Visible on Aerial I cained Leaves (B9) vations: er Present? Present? Y	Imagery (B7)  'es N  'es N	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Oc on Water T Rhizospher not tilled) of Reduce k Surface (c cplain in Re	dor (C1) rable (C2) res on Livi d Iron (C4 C7) marks)	)	Surface Sparse Drainag Oxidize (C3) (whe Crayfise ✓ Saturat ✓ Geomo FAC-Ne Frost-H	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3) re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatic  Water M  Sedimen  Drift Dep  Algal Ma  Iron Dep  Inundatic  Water-St  Field Observ  Surface Water Table  Saturation Pr (includes cap	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) cosits (B3) ot or Crust (B4) cosits (B5) on Visible on Aerial I cained Leaves (B9) vations: er Present? Present? Y	Imagery (B7)  'es N  'es N	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Octon Water T Rhizospher not tilled) of Reduce k Surface (caplain in Re	dor (C1) rable (C2) res on Livi d Iron (C4 C7) marks)	) Wetl	Surface Sparse Drainag Oxidize (C3) (whe Crayfise ✓ Saturat ✓ Geomo FAC-Ne Frost-H	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3) re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatic  Water M  Sedimen  Drift Dep  Algal Ma  Iron Dep  Inundatic  Water-St  Field Observ  Surface Water Table  Saturation Pr (includes cap	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial I dained Leaves (B9) covations: er Present? Present? Y esent? Y esent? Y esent? Y	Imagery (B7)  'es N  'es N	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Octon Water T Rhizospher not tilled) of Reduce k Surface (caplain in Re	dor (C1) rable (C2) res on Livi d Iron (C4 C7) marks)	) Wetl	Surface Sparse Drainag Oxidize (C3) (whe Crayfise ✓ Saturat ✓ Geomo FAC-Ne Frost-H	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3) re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatic  Water M  Sedimen  Drift Dep  Algal Ma  Iron Dep  Inundatic  Water-St  Field Observ  Surface Water Table  Saturation Pr (includes cap	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial I dained Leaves (B9) covations: er Present? Present? Y esent? Y esent? Y esent? Y	Imagery (B7)  'es N  'es N	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Octon Water T Rhizospher not tilled) of Reduce k Surface (caplain in Re	dor (C1) rable (C2) res on Livi d Iron (C4 C7) marks)	) Wetl	Surface Sparse Drainag Oxidize (C3) (whe Crayfise ✓ Saturat ✓ Geomo FAC-Ne Frost-H	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3) re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F)
HYDROLO  Wetland Hyd  Primary Indic  Surface  High Wa  Saturatio  Water M  Sedimen  Drift Dep  Algal Ma  Iron Dep  Inundatio  Water-SI  Field Observ  Surface Water  Water Table  Saturation Pr (includes cap  Describe Rec	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial I dained Leaves (B9) covations: er Present? Present? Y esent? Y esent? Y esent? Y	Imagery (B7)  'es N  'es N	Salt Crus Aquatic Ir Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	t (B11) nvertebrate n Sulfide Octon Water T Rhizospher not tilled) of Reduce k Surface (caplain in Re	dor (C1) rable (C2) res on Livi d Iron (C4 C7) marks)	) Wetl	Surface Sparse Drainag Oxidize (C3) (whe Crayfise ✓ Saturat ✓ Geomo FAC-Ne Frost-H	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3) re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F)

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-DP11
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				•	
Are climatic / hydrologic conditions on the site typical for th					• "
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ	
SUMMARY OF FINDINGS – Attach site map					
Hydrophytic Vegetation Present? Yes <u>√</u>	1o	lo 4l	he Sampled	I Aron	
Hydric Soil Present? Yes ✓ ١	10		hin a Wetlar		No
Wetland Hydrology Present? Yes ✓ 1	40				
Remarks:					
VEGETATION – Use scientific names of plan					
Tree Stratum (Plot size: 30'	Absolute % Cover		t Indicator ' Status	Dominance Test wor	
1.				Number of Dominant : That Are OBL, FACW	, or FAC
2.				(excluding FAC-);	<u>1</u> (A)
3				Total Number of Domi	
4				Species Across All Sti	rata: <u>2</u> (B)
0 11 70 1 0 1 70 1 15 15		= Total Co	ver	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 15' )  1. Prosopis glandulosa	50	Yes	FACU	That Are OBL, FACW	, or FAC: 50 (A/B)
2. Zanthoxylum clava-herculis	10	No	FACU	Prevalence Index wo	orksheet:
3				Total % Cover of:	
4.					x 1 = <u>80</u>
5			,		x 2 =
	60	= Total Co	ver		x 3 = 120
Herb Stratum (Plot size: 5'	0.0	<b>V</b> Z	ODI	FACU species 60	x 4 = 240
1. Eleocharis palustris	$-\frac{80}{20}$	Yes No	OBL FAC	of E opeoids	$\times 5 = \frac{100}{(A)}$
2. Iva annua 3. Monarda citriodora	20	No	NI NI	Column Totals: 200	(A) <u>540</u> (B)
4. Coreopsis tinctoria	20	No	FAC	Prevalence Inde	x = B/A = 2.7
				Hydrophytic Vegetat	ion Indicators:
5.       6.				1 - Rapid Test for	Hydrophytic Vegetation
7				2 - Dominance Te	
8				✓ 3 - Prevalence Inc	
9.					Adaptations <sup>1</sup> (Provide supporting ks or on a separate sheet)
10.				1	ophytic Vegetation <sup>1</sup> (Explain)
201	140	= Total Co	ver		
Woody Vine Stratum (Plot size: 30'				be present, unless dis	oil and wetland hydrology must turbed or problematic.
1,					-
2		= Total Co	- ———	Hydrophytic Vegetation	,
% Bare Ground in Herb Stratum		_ 10tai 0t	, y G1	Present? Y	es No
Remarks:					
Sapling/shrub on perimeter of depression.					

Remarks:

· —		City/Co	<sub>unty:</sub> Lockha	rt/Caldwell	_ Sampling Date:	06/19/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX	_ Sampling Point	T4-DP12
Investigator(s): Troegle, Josh & Littleton, Brandyr	1	Section	, Township, Ra	nge: NA		
Landform (hillslope, terrace, etc.): Depression		Local r	elief (concave.	convex. none); Conca	ive s	ope (%): 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 the						,
Are Vegetation, Soil, or Hydrology	significantly	disturbe	ed? Are	"Normal Circumstances"	present? Yes 💌	No
Are Vegetation, Soil, or Hydrology	naturally pro	blemati	ic? (If ne	eeded, explain any ansv	vers in Remarks.)	
SUMMARY OF FINDINGS – Attach site mag	showing	samp	oling point l	ocations, transect	s, important f	eatures, etc.
Hydrophytic Vegetation Present? Yes <u>√</u>	No		la éba Camalad	1 Aven		
Hydric Soil Present? Yes ✓			ls the Sampled within a Wetlar		No	
Wetland Hydrology Present? Yes ✓		'	Within a Wetlan	iidi res <u> </u>	NO	_
Remarks:						
VEGETATION – Use scientific names of pla	nts.					
	Absolute	Domir	nant Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plot size: 30'			es? Status	Number of Dominant	Species	
1. Ulmus crassifolia		Yes	FAC	That Are OBL, FACW	, or FAC 3	(4)
2				(excluding FAC-):	<u> </u>	(A)
3				Total Number of Dom		
4				Species Across All St	rata: <u>5</u>	(B)
201	10	= Total	Cover	Percent of Dominant	Species	
Sapling/Shrub Stratum (Plot size: 30' )	1.5	17	NII	That Are OBL, FACW	/, or FAC: <u>60</u>	(A/B)
1. Diospyros texana		Yes	NI NI	Prevalence Index wo	orksheet	•
2. Prosopis glandulosa		Yes	FACU		: Multij	nly hy:
3				OBL species		
4				FACW species		
5				FAC species		
Herb Stratum (Plot size: 30'	40	= Total	Cover	FACU species		
1. Cyperus polystachyos	10	No	FACW	UPL species		
2. Iva annua	80	Yes	FAC	Column Totals:		
3 Eleocharis palustris	70	Yes	OBL	Column Totals.		(D)
4. Opuntia engelmannii	10	No	NI	Prevalence Inde	ex = B/A =	
5. Phanopyrum gymnocarpon	20	No	OBL	Hydrophytic Vegeta	tion Indicators:	
6 Monarda citriodora	20	No	NI	1 - Rapid Test for	r Hydrophytic Vege	etation
	_			✓ 2 - Dominance Telephone	est is >50%	
7				3 - Prevalence In	dex is ≤3.0 <sup>1</sup>	
8				4 - Morphologica	l Adaptations¹ (Pro	vide supporting
9					rks or on a separat	
10	210	_ T-1-1	Cover	Problematic Hydi	ophytic Vegetation	ı' (Explain)
Woody Vine Stratum (Plot size: 30'	210	_= rota	Cover	<sup>1</sup> Indicators of hydric s	oil and wetland hy	drology must
1				be present, unless dis		
2.				Hydrophytic		
			Cover	Vegetation	,	
% Bare Ground in Herb Stratum 30	-		. 50,01	Present? Y	′es <u>√</u> No_	
Remarks;				1010000		
Trees/saplings/shrubs at perimeter of depression.						

Sampling Point: T4-DP12

c	$\sim$	ı	
J	v	ı	_

Depth Ma	atrix .		ox Features		m the absence of ir	•
(inches) Color (mo		Color (moist)	ox reatures _ <u>%                                    </u>	e <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-5 10 YR 2/1		10 YR 5/8	5 C	M/PL	Clay	TXOTTO
		_				
				<del></del>		
		-				
				<del></del>		
<sup>1</sup> Type: C=Concentration, E				pated Sand G		n: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (A	Applicable to all L	RRs, unless othe	rwise noted.)		Indicators for F	Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)			Gleyed Matrix (S	4)	1 cm Muck	(A9) (LRR I, J)
Histic Epipedon (A2)			Redox (S5)			ie Redox (A16) (LRR F, G, H)
Black Histic (A3)			d Matrix (S6)	E4\		ee (S7) (LRR G)
Hydrogen Sulfide (A4) Stratified Layers (A5) (			Mucky Mineral (I Gleyed Matrix (F			Depressions (F16)
1 cm Muck (A9) (LRR			ed Matrix (F3)	(2)	Reduced V	outside of MLRA 72 & 73)
Depleted Below Dark S			Dark Surface (F6	3)		Material (TF2)
Thick Dark Surface (A1			ed Dark Surface (	•		w Dark Surface (TF12)
Sandy Mucky Mineral (			Depressions (F8	)	Other (Expl	ain in Remarks)
2.5 cm Mucky Peat or I			ains Depressions		<sup>3</sup> Indicators of hy	drophytic vegetation and
5 cm Mucky Peat or Pe	eat (S3) (LRR F)	(ML	.RA 72 & 73 of L	.RR H)	_	rology must be present,
Destal distribution (15 mars)	4				unless distu	irbed or problematic.
Restrictive Layer (if prese	ent):					
Type: Cobble						
Depth (inches): Five		<u> </u>			Hydric Soil Pres	ent? Yes <u></u> ✓ No
Remarks:						
HYDROLOGY						·
Wetland Hydrology Indica	ators:		<del></del>			
		chack all that appl	na)			
Drimon, Indicatora (minimus		check all that appr	<u> </u>		Canadamila	di . e
Primary Indicators (minimum	in of othe required,	Colf Count	/D44\			dicators (minimum of two required)
Surface Water (A1)		Salt Crust	, ,	`	Surface S	Soil Cracks (B6)
Surface Water (A1) High Water Table (A2)		Aquatic In	vertebrates (B13		Surface S Sparsely	Soil Cracks (B6) Vegetated Concave Surface (B8)
Surface Water (A1) High Water Table (A2) Saturation (A3)		Aquatic In Hydrogen	vertebrates (B13 Sulfide Odor (C1	1)	Surface S Sparsely Drainage	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Aquatic In Hydrogen Dry-Seaso	vertebrates (B13 Sulfide Odor (C1 on Water Table (	1) C2)	Surface S Sparsely Drainage Oxidized	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2		— Aquatic In — Hydrogen — Dry-Seasc ✓ Oxidized F	vertebrates (B13 Sulfide Odor (C1 on Water Table ( Rhìzospheres on	1) C2)	Surface S Sparsely Drainage Oxidized (C3) Surface S (C3)	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	2)	Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F	vertebrates (B13 Sulfide Odor (C1 on Water Table (G Rhizospheres on not tilled)	1) C2) Living Roots	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2 Drift Deposits (B3) Algal Mat or Crust (B4)	2)	Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where i	vertebrates (B13 Sulfide Odor (C1 on Water Table (G Rhizospheres on not tilled) of Reduced Iron	1) C2) Living Roots	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9)
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)	2)	Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where in Presence Thin Muck	vertebrates (B13 Sulfide Odor (C1 on Water Table (G2 Rhizospheres on not tilled) of Reduced Iron Surface (C7)	1) C2) Living Roots (C4)	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio Geomorp	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) hic Position (D2)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on A</li> </ul>	erial Imagery (B7)	Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where in Presence Thin Muck	vertebrates (B13 Sulfide Odor (C1 on Water Table (G Rhizospheres on not tilled) of Reduced Iron	1) C2) Living Roots (C4)	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio Geomorp FAC-Neu	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) hic Position (D2) tral Test (D5)
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 A Water-Stained Leaves	erial Imagery (B7)	Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where in Presence Thin Muck	vertebrates (B13 Sulfide Odor (C1 on Water Table (G2 Rhizospheres on not tilled) of Reduced Iron Surface (C7)	1) C2) Living Roots (C4)	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio Geomorp FAC-Neu	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) hic Position (D2)
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 A Water-Stained Leaves Field Observations:	erial Imagery (B7)	Aquatic In Hydrogen Dry-Seasc ✓ Oxidized F (where I Presence Thin Muck	vertebrates (B13 Sulfide Odor (C1 on Water Table (Rhizospheres on not tilled) of Reduced Iron Surface (C7) plain in Remarks	f) C2) Living Roots (C4)	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio Geomorp FAC-Neu	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) hic Position (D2) tral Test (D5)
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 A Water-Stained Leaves Field Observations: Surface Water Present?	erial Imagery (B7) (B9) Yes N	Aquatic In Hydrogen Dry-Seasc Oxidized F (where in Presence Thin Muck Other (Exp	vertebrates (B13 Sulfide Odor (C1 on Water Table (in Rhizospheres on not tilled) of Reduced Iron is Surface (C7) blain in Remarks ches):	f) C2) Living Roots (C4)	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio Geomorp FAC-Neu	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) hic Position (D2) tral Test (D5)
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 A Water-Stained Leaves Field Observations: Surface Water Present?	erial Imagery (B7) (B9) Yes No	Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck Other (Exp	vertebrates (B13 Sulfide Odor (C1 on Water Table (in Rhizospheres on not tilled) of Reduced Iron is Surface (C7) clain in Remarks ches):	t) C2) Living Roots (C4)	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish   ✓ Saturatio ✓ Geomorp FAC-Neu Frost-Hea	Soil Cracks (B6)  Vegetated Concave Surface (B8)  Patterns (B10)  Rhizospheres on Living Roots (C3)  tilled)  Burrows (C8)  n Visible on Aerial Imagery (C9)  hic Position (D2)  tral Test (D5)  ave Hummocks (D7) (LRR F)
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 A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? Saturation Present?	erial Imagery (B7) (B9) Yes No	Aquatic In Hydrogen Dry-Seasc Oxidized F (where in Presence Thin Muck Other (Exp	vertebrates (B13 Sulfide Odor (C1 on Water Table (in Rhizospheres on not tilled) of Reduced Iron is Surface (C7) clain in Remarks ches):	t) C2) Living Roots (C4)	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish   ✓ Saturatio ✓ Geomorp FAC-Neu Frost-Hea	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) hic Position (D2) tral Test (D5)
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 A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	erial Imagery (B7) (B9)  Yes No Yes No	Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck Other (Exp	vertebrates (B13 Sulfide Odor (C1 on Water Table (in Rhizospheres on not tilled) of Reduced Iron is Surface (C7) colain in Remarks ches): ches):	t) C2) Living Roots (C4) ) Weth	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish ✓ Saturatio ✓ Geomorp FAC-Neu Frost-Hea	Soil Cracks (B6)  Vegetated Concave Surface (B8)  Patterns (B10)  Rhizospheres on Living Roots (C3)  tilled)  Burrows (C8)  n Visible on Aerial Imagery (C9)  hic Position (D2)  tral Test (D5)  ave Hummocks (D7) (LRR F)
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 A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present?	erial Imagery (B7) (B9)  Yes No Yes No	Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck Other (Exp	vertebrates (B13 Sulfide Odor (C1 on Water Table (in Rhizospheres on not tilled) of Reduced Iron is Surface (C7) colain in Remarks ches): ches):	t) C2) Living Roots (C4) ) Weth	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish ✓ Saturatio ✓ Geomorp FAC-Neu Frost-Hea	Soil Cracks (B6)  Vegetated Concave Surface (B8)  Patterns (B10)  Rhizospheres on Living Roots (C3)  tilled)  Burrows (C8)  n Visible on Aerial Imagery (C9)  hic Position (D2)  tral Test (D5)  ave Hummocks (D7) (LRR F)
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 A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	erial Imagery (B7) (B9)  Yes No Yes No	Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck Other (Exp	vertebrates (B13 Sulfide Odor (C1 on Water Table (in Rhizospheres on not tilled) of Reduced Iron is Surface (C7) colain in Remarks ches): ches):	t) C2) Living Roots (C4) ) Weth	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish ✓ Saturatio ✓ Geomorp FAC-Neu Frost-Hea	Soil Cracks (B6)  Vegetated Concave Surface (B8)  Patterns (B10)  Rhizospheres on Living Roots (C3)  tilled)  Burrows (C8)  n Visible on Aerial Imagery (C9)  hic Position (D2)  tral Test (D5)  ave Hummocks (D7) (LRR F)
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 A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	erial Imagery (B7) (B9)  Yes No Yes No	Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck Other (Exp	vertebrates (B13 Sulfide Odor (C1 on Water Table (in Rhizospheres on not tilled) of Reduced Iron is Surface (C7) colain in Remarks ches): ches):	t) C2) Living Roots (C4) ) Weth	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish ✓ Saturatio ✓ Geomorp FAC-Neu Frost-Hea	Soil Cracks (B6)  Vegetated Concave Surface (B8)  Patterns (B10)  Rhizospheres on Living Roots (C3)  tilled)  Burrows (C8)  n Visible on Aerial Imagery (C9)  hic Position (D2)  tral Test (D5)  ave Hummocks (D7) (LRR F)
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 A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	erial Imagery (B7) (B9)  Yes No Yes No	Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck Other (Exp	vertebrates (B13 Sulfide Odor (C15 on Water Table (G16 Rhizospheres on not tilled) of Reduced Iron surface (C7) colain in Remarks ches):	t) C2) Living Roots (C4) ) Weth	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish ✓ Saturatio ✓ Geomorp FAC-Neu Frost-Hea	Soil Cracks (B6)  Vegetated Concave Surface (B8)  Patterns (B10)  Rhizospheres on Living Roots (C3)  tilled)  Burrows (C8)  n Visible on Aerial Imagery (C9)  hic Position (D2)  tral Test (D5)  ave Hummocks (D7) (LRR F)

Project/Site: 130 Environmenta	ıl Park	(	City/County	, Lockhai	rt/Caldwell	Sampling Date: 06/1	9/2013
Applicant/Owner: 130 Environme						Sampling Point: T4-D	
Investigator(s): Troegle, Josh &							
Landform (hillslope, terrace, etc.):						Slope (%	): 0-1
Subregion (LRR): J - Southwest							
Soil Map Unit Name: WgC - Wilson					NWI classi		
Are climatic / hydrologic conditions of							
	· ·					" present? Yes <a href="#">Yes</a>	No
Are Vegetation, Soil							NU
Are Vegetation, Soil					eded, explain any ansv		
SUMMARY OF FINDINGS -	Attach site ma	ap showing	samplin	ng point le	ocations, transec	ts, important featur	es, etc.
Hydrophytic Vegetation Present?	Yes	No <u>✓</u>					
Hydric Soil Present?	Yes			he Sampled		No <u>√</u>	
Wetland Hydrology Present?	Yes		With	hin a Wetlar	10? res	NO <u>*</u>	
Remarks:			I	-			
VEGETATION – Use scienti	ific names of pl	ants.					
101		Absolute		t Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plot size: 30'		<u>% Cover</u> 30	Species? Yes	Status FAC	Number of Dominant		
				TAC	That Are OBL, FACW (excluding FAC-):	V, or FAC 3	(A)
2							_ (//
3					Total Number of Dom Species Across All S		(B)
4		30	= Total Co				_ (-)
Sapling/Shrub Stratum (Plot size:	15'	-	- Total Co	vei	Percent of Dominant That Are OBL, FACW		_ (A/B)
1. Prosopis glandulosa		40	Yes	FACU			_ (,,,,,
2. Celtis laevigata		40	Yes	FAC	Prevalence Index w		
3. <u>Mahonia trifoliolata</u>		5	No	NI	Total % Cover of		
4						x 1 =	
5					1	x 2 = x 3 =	
Herb Stratum (Plot size: 5'	,	85	= Total Co	over	1	x4=	
1. Nassella leucotricha		90	Yes	NI		x5=	
2. Avena fatua	<u></u>	5	No	NI		(A)	— (B)
3 Cylindropuntia leptocaulis		10	No	NI			(5)
4						ex = B/A =	
5					Hydrophytic Vegeta		
6.						r Hydrophytic Vegetation	
7.					2 - Dominance T		
8.					3 - Prevalence Ir		
9					4 - Morphologica	al Adaptations <sup>1</sup> (Provide su irks or on a separate shee	Jpporting
10						rophytic Vegetation <sup>1</sup> (Expl	,
_	201	105	= Total Co	over	-		•
Woody Vine Stratum (Plot size:	)		Voc	EAC		soil and wetland hydrology isturbed or problematic.	/ must
1. Smilax rotundifolia		5	Yes	FAC	<u> </u>		
2					Hydrophytic Vegetation		
% Bare Ground in Herb Stratum _			= Total Co	over		Yes No <u>√</u>	
Remarks:	winst				ı		
FAC vegetation, not hydrophyti	С						
US Army Corps of Engineers						Great Plains – Ver	sion 2.0

SOIL Sampling Point: T4-DP13 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Matrix (inches) Color (moist) Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Texture <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ Sandy Gleyed Matrix (S4) \_\_\_ 1 cm Muck (A9) (LRR I, J) Histosof (A1) \_\_\_ Sandy Redox (S5) \_\_\_ Coast Prairie Redox (A16) (LRR F, G, H) Histic Epipedon (A2) \_\_\_ Stripped Matrix (S6) \_\_\_ Black Histic (A3) \_\_\_ Dark Surface (S7) (LRR G) \_\_\_ Loamy Mucky Mineral (F1) \_\_\_ Hydrogen Sulfide (A4) High Plains Depressions (F16) \_\_\_ Loamy Gleyed Matrix (F2) \_\_\_ Stratified Layers (A5) (LRR F) (LRR H outside of MLRA 72 & 73) \_\_\_ Depleted Matrix (F3) 1 cm Muck (A9) (LRR F, G, H) \_\_\_ Reduced Vertic (F18) \_\_\_ Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) \_\_\_ Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) \_\_\_ Redox Depressions (F8) Other (Explain in Remarks) \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) <sup>3</sup>Indicators of hydrophytic vegetation and High Plains Depressions (F16) \_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) \_\_\_ High Water Table (A2) \_\_\_ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Hydrogen Sulfide Odor (C1) \_\_ Drainage Patterns (B10) Saturation (A3) \_\_\_ Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) \_\_\_ Drift Deposits (B3) (where not tilled) \_\_\_ Crayfish Burrows (C8) \_\_\_ Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) \_\_\_ Iron Deposits (B5) \_\_\_ Thin Muck Surface (C7) Geomorphic Position (D2) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) \_\_\_ Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_ No ✓ Depth (inches): \_ Surface Water Present? Yes \_\_\_\_\_ No <u>✓</u> Depth (inches): \_\_\_\_\_

US Army Corps of Engineers

Water Table Present?

(includes capillary fringe)

Saturation Present?

Remarks:

Wetland Hydrology Present? Yes \_\_\_\_\_ No ✓

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

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

Project/Site: 130 Environmental Park		City/Co	<sub>unty:</sub> Lockha	rt/Caldwell	Sampling Date:	06/19/2013
Applicant/Owner: 130 Environmental Pa				State: TX		
Investigator(s): Troegle, Josh & Littleto						
5 , , _					Sic	no /9/ ): 0-1
Subregion (LRR): J - Southwestern Pra						
Soil Map Unit Name: WgC - Wilson gravel			_			
Are climatic / hydrologic conditions on the site						
Are Vegetation, Soil, or Hydro				"Normal Circumstances"	present? Yes <a>V</a>	No
Are Vegetation, Soil, or Hydro	ology naturally pro	oblemati	ic? (If ne	eeded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attack	n site map showing	samp	oling point l	ocations, transect	s, important fe	atures, etc
Hydrophytic Vegetation Present? You	es No <u> </u>		I- 45- CI-	1 A		
Hydric Soil Present?	es No <u>√</u>		Is the Sampled within a Wetlar		No_✓	
	es No <u> <b>√</b></u>	'	within a wellar	iid: ies	140 +	-
Remarks:						
VEGETATION – Use scientific nan	nes of plants.					
Tree Stratum (Plot size: 30'	Absolute % Cover		nant Indicator es? Status	Dominance Test wor		
1. Ulmus crassifolia	30	Yes	FAC	Number of Dominant S That Are OBL, FACW,		
2. Prosopis glandulosa		Yes	FACU	(excluding FAC-):	~	(A)
3				Total Number of Domi	nant	
4.				Species Across All Str	_	(B)
		= Total	Cover	Percent of Dominant S	ènacios	
	)			That Are OBL, FACW,		(A/B)
1. Prosopis glandulosa		Yes	FACU	Prevalence Index wo	rico la a a tu	
2. Ulmus crassifolia		Yes	FAC	Total % Cover of:		hr bu:
3. Celtis laevigata		No	FAC	OBL species		
4. Mahonia trifoliolata	5	No	<u>NI</u>	FACW species		
5	<u> </u>			FAC species		
Herb Stratum (Plot size: 51	50	_= Lotal	Cover	FACU species		
1. Nassella leucotricha	90	Yes	NI	UPL species		
2 Opuntia engelmannii	20	No	NI	Column Totals:		
3.						, ,
4.					x = B/A =	
5				Hydrophytic Vegetati		
6.				1 - Rapid Test for		ation
7				2 - Dominance Te		
8				3 - Prevalence Inc		
9				4 - Morphological data in Remark	Adaptations (Prov ks or on a separate	ide supporting sheet)
10				Problematic Hydro	ophytic Vegetation	(Explain)
30'	110	= Total	l Cover	1Indicators of hydrin as	ail and watland bud	
Woody Vine Stratum (Plot size: 30'	<del></del>			<sup>1</sup> Indicators of hydric so be present, unless dis		
1				15-de-East-		
2			I Couer	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 5	_	_ ~ TOtal	OUVE	Present? Yo	es No <u>√</u>	
Remarks:						

Sampling Point: T4-DP14 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redo	x Features			
(inches)	Color (moist)	%C	olor (moist)	%Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
							_
			-				
		<del></del>		·			<u>-</u>
1							
	ncentration, D=Deple				ed Sand Gra		PL=Pore Lining, M=Matrix.
	ndicators: (Applica	ble to all LRRs		•		Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :
Histosol	• •			Gleyed Matrix (S4)		1 cm Muck (#	
	ipedon (A2)			Redox (S5)			Redox (A16) (LRR F, G, H)
Black His				d Matrix (S6)		Dark Surface	
	n Sulfide (A4)			Mucky Mineral (F1	l	High Plains D	
	Layers (A5) (LRR F)			Gleyed Matrix (F2)			utside of MLRA 72 & 73)
	ck (A9) ( <b>LRR F, G, H</b>			d Matrix (F3)		Reduced Ver	
	Below Dark Surface	(A11)		Dark Surface (F6)		Red Parent M	
	rk Surface (A12)			d Dark Surface (F7	)		Dark Surface (TF12)
	ucky Mineral (S1)	0) /L BB C LIV		Depressions (F8)	-40)		n in Remarks)
	lucky Peat or Peat (S			ains Depressions (I			rophytic vegetation and
5 CM IVIU	cky Peat or Peat (S3)	(LRKF)	(ML	RA 72 & 73 of LR	₹Н)		ology must be present,
Destrictive	man (if munnama).					unless disturb	ped or problematic.
_	ayer (if present):						
Depth (incl	hes):					Hydric Soil Prese	nt? YesNo_✓
Remarks:							
			<u> </u>			<u></u>	
HYDROLOG	GY Y						
Wetland Hyd	rology Indicators:						
-			-111.4b -4)				
	ators (minimum of on	e requirea; che				Secondary Indi	cators (minimum of two required)
	Vater (A1)		Salt Crust	(B11)		Surface So	il Cracks (B6)
	er Table (A2)		Aquatic Inv	rertebrates (B13)		Sparsely V	egetated Concave Surface (B8)
Saturation	n (A3)		Hydrogen \$	Sulfide Odor (C1)		Drainage P	atterns (B10)
Water Ma	ırks (B1)		Dry-Seaso	n Water Table (C2	)	Oxidized R	hizospheres on Living Roots (C3)
Sediment	Deposits (B2)		Oxidized R	hizospheres on Li	ing Roots (	C3) (where ti	lled)
Drift Depo	osits (B3)		(where n	ot tilled)		Crayfish Bu	irrows (C8)
Algal Mat	or Crust (B4)		Presence of	of Reduced Iron (C	4)	•	Visible on Aerial Imagery (C9)
Iron Depo			Thin Muck	•	,		c Position (D2)
	n Visible on Aerial Im	agery (B7)		lain in Remarks)			al Test (D5)
	ained Leaves (B9)	lagory (er)	0.1101 (EXP	idir iii (Comanto)			
Field Observa	. ,			· .	<del></del>	riost-neav	e Hummocks (D7) (LRR F)
Surface Water				:hes):			
Water Table F	resent? Ye:	s No 🗹	Depth (inc	:hes):			
Saturation Pre	esent? Yes	sNo <u> </u>	Depth (inc	hes):	Wetla	ind Hydrology Prese	ent? Yes No ✓
(includes capil	llary fringe)						
Describe Reco	orded Data (stream g	auge, monitorii	ng well, aerial p	hotos, previous in:	spections), it	f available:	
Remarks:				_			

Project/Site: 130 Environmental Park		Çity/Çoı	<sub>unty:</sub> Lockha	rt/Caldwell	_ Sampling Date: 06/19/2013
Applicant/Owner: 130 Environmental Park, LL	.C			State: TX	Sampling Point: T4-DP15
Investigator(s): Troegle, Josh & Littleton, Brai	· · · · · · · · · · · · · · · · · · ·				
					Stope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					Datum: NAD 83
Soil Map Unit Name: WgC - Wilson gravelly loam				NWI classif	
Are climatic / hydrologic conditions on the site typical			_		
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ	
SUMMARY OF FINDINGS – Attach site				ocations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes ✓	No		s the Sampled	I Anno	
Hydric Soil Present? Yes	No <u>√</u> No <u>√</u>		within a Wetlar		No <u>√</u>
Wetland Hydrology Present? Yes	No <u>-</u>		WICHINI & TYCKA		NO
Remarks:					
VEGETATION – Use scientific names of	plants.				
30'	Absolute		nant Indicator	Dominance Test wo	ksheet:
Tree Stratum (Plot size: 30')	<u>% Cover</u> 80	Yes	es? Status FAC	Number of Dominant	
1. Ulmus crassifolia		1 63	TAC	That Are OBL, FACW (excluding FAC-):	, or FAC(A)
2				(CXCIDATING 1 /40 /	(A)
3				Total Number of Dom	•
4				Species Across All St	rata: 6 (B)
Sapling/Shrub Stratum (Plot size: 15'	80	= Total	Cover	Percent of Dominant	
1. Zanthoxylum clava-herculis	_ <i>_)</i> 5	No	FACU	That Are OBL, FACW	, or FAC: <u>66</u> (A/B)
2. Mahonia trifoliolata	15	No	NI NI	Prevalence Index wo	orksheet:
3. Ulmus crassifolia	10	Yes	FAC	Total % Cover of	Multiply by:
					x 1 =
4					x 2 =
5	30	= Total	Cover	1	x 3 =
Herb Stratum (Plot size: 5'		- 10tai	Cover	FACU species	x 4 =
1. Nassella leucotricha	20	Yes	Nl	UPL species	x 5 =
2. Eupatorium incarnatum	75	Yes	FAC		(A) (B)
3. Opuntia engelmannii	5	No	NI NI		
4.					ex = B/A =
5.				Hydrophytic Vegetat	
6					· Hydrophytic Vegetation
7				✓ 2 - Dominance To	
8.				3 - Prevalence In	
9				4 - Morphological	Adaptations <sup>1</sup> (Provide supporting ks or on a separate sheet)
10					' '
101		= Total	Cover	Problematic Hydr	ophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'					oil and wetland hydrology must
1. Smilax rotundifolia	5	Y	FAC	be present, unless dis	sturbed or problematic.
2				Hydrophytic	
		= Total	l Cover	Vegetation Present? Y	′es <u>√</u> No
% Bare Ground in Herb Stratum 25				i leselit:	
Remarks:					

Sampling Point: T4-DP15

C	$\sim$	Ī	п	
J	v	ı	L	

Profile Des	cription: (Describe	e to the depth ne	eded to docu	ment the i	ndicator	or confirn	n the absence of in	dicators.)
Depth	Matrix		_	x Feature	4-1	- 2	<b>-</b> .	
(inches) 0-5	Color (moist) 10 YR 4/2	<u>%C</u>	olor (moist)	%	Type'	Loc²		Remarks
<u>-0-5</u>	10 11 4/2	_ 100					Sandy clay	
							<u></u>	
l ——				<del></del>		-	<del></del>	-
		<del>-</del>						
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM≃Redu	ced Matrix, C	S=Covered	d or Coate	d Sand G	rains. <sup>2</sup> Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all LRRs	, unless othe	rwise not	ed.)		Indicators for P	roblematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy	Gleyed Ma	itrix (S4)			(A9) ( <b>LRR I, J</b> )
	pipedon (A2)			Redox (S5				e Redox (A16) ( <b>LRR F, G, H</b> )
	istic (A3)			d Matrix (S	,			e (S7) ( <b>LRR G</b> )
	en Sulfide (A4)	<b>-</b> \		Mucky Mir				Depressions (F16)
I	d Layers (A5) ( <b>LRR</b> Jck (A9) ( <b>LRR F, G,</b>			Gleyed Ma d Matrix (f			Reduced Ve	outside of MLRA 72 & 73)
I —	d Below Dark Surfa	,		Dark Surfa	,			Material (TF2)
ı —	ark Surface (A12)	()		d Dark Su				w Dark Surface (TF12)
Sandy N	lucky Mineral (S1)		Redox	Depressio	ns (F8)		Other (Expla	ain in Remarks)
1 —	Mucky Peat or Peat			ains Depre				drophytic vegetation and
5 cm Mu	icky Peat or Peat (\$	83) (LRR F)	(ML	.RA 72 & 7	73 of LRR	H)	•	rology must be present,
Poetrictius I	nune (if proposit):						unless distu	rbed or problematic.
Type: Co	Layer (if present):							
	ches): Six						0	
	ones) <del></del>						Hydric Soil Pres	ent? Yes No ✓
Remarks:								
HYDROLO	GY							
Wetland Hyd	drology Indicators	*						
Primary India	cators (minimum of	one required; che	ck all that appl	у)			Secondary Inc	dicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surface S	ioil Cracks (B6)
High Wa	ter Table (A2)	-	Aquatic In	vertebrate	s (B13)		Sparsely	Vegetated Concave Surface (B8)
Saturatio	on (A3)	-	Hydrogen	Sulfide Od	dor (C1)		Drainage	Patterns (B10)
Water M	arks (B <b>1</b> )	-	Dry-Seaso	n Water T	able (C2)		Oxidized	Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits (B2)	-	Oxidized F	Rhizosphei	res on Livi	ng Roots (	(C3) (where	tilled)
Drift Dep	osits (B3)		(where	not tilled)			Crayfish E	Burrows (C8)
	it or Crust (B4)	-	Presence		•	.)	Saturation	n Visible on Aerial Imagery (C9)
	osits (B5)	_	Thin Muck	,			Geomorp	hic Position (D2)
	on Visible on Aerial	Imagery (B7)	Other (Exp	olain in Re	marks)			tral Test (D5)
	tained Leaves (B9)						Frost-Hea	ve Hummocks (D7) (LRR F)
Field Observ		,						
Surface Water		∕es No <u>√</u>						
Water Table		res No ✓						
Saturation Pr		resNo <u>√</u>	Depth (in	ches):		_ Wetla	and Hydrology Pres	sent? Yes No ✓
(includes cap Describe Red	orded Data (strean	n gauge, monitorir	ng well, aerial	ohotos, pre	evious inst	nections).	if available	
	(	. 99-,	.3	and to all pro		,,,	n aranasis.	
Remarks:			<del></del>				,	

Project/Site: 130 Environmental Park	(	Citv/Cr	ounty:	Lockha	rt/Caldwel	<u> </u>	Sampling	Date: 07/	11/2013
Applicant/Owner: 130 Environmental Park, LLC						: <u>TX</u> s			
Investigator(s): Troegle, Josh & Littleton, Brandyr							ampung i	- Oitte:	
Landform (hillslope, terrace, etc.): Fringe wetlandf						Concave		Clana /	ω \. Π-6
Subregion (LRR): J - Southwestern Prairies									
Soil Map Unit Name: WgC - Wilson gravelly loam,								ie avalia	nie
Are climatic / hydrologic conditions on the site typical for the									
Are Vegetation, Soil, or Hydrology				Are '	'Normal Circ	umstances" pre	sent? Y	es 🗸	No
Are Vegetation, Soil, or Hydrology	naturally pro	blema	tic?	(If ne	eded, expla	in any answers	in Remar	rks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	plin	g point l	ocations,	transects, i	importa	ant featu	ıres, etc.
Hydrophytic Vegetation Present? Yes ✓	No					,	·		
Hydric Soil Present? Yes   Yes				e Sampled					
Wetland Hydrology Present? Yes ✓			with	in a Wetlar	nd?	Yes <u>√</u>	_ No_	<del></del>	
Remarks:									
	4				<u> </u>				
VEGETATION – Use scientific names of pla									
Tree Stratum (Plot size: 30'	Absolute % Cover			Indicator Status		e Test worksh			
1					1	f Dominant Spe DBL, FACW, or			
2.					(excluding	FAC-):	_1	<u></u>	(A)
3.					Total Num	ber of Dominar	nt		
4					Species A	cross Ali Strata	:	1	(B)
1.51		= Tota	al Cov	er/er	Percent of	Dominant Spe	cies		
Sapling/Shrub Stratum (Piot size: 15' )					That Are 0	DBL, FACW, or	FAC: _	100	(A/B)
1					Prevalenc	e Index works	heet:		
2.					Total	% Cover of:		Multiply by	:
3					OBL spec	ies	x 1	=	
4					1	ecies			
5		= Tota	at Cov	er er	FAC spec	ies	х 3	=	
Herb Stratum (Plot size: 5'		1010	a, 00,		FACU spe	cies	× 4	=	
1. Eleocharis compressa	90	Yes		OBL	1	es			
2. Iva annua		No		FAC	Column T	otals:	(A)		(B)
3. Persicaria hydropiper		No		OBL	Prev	alence Index =	: B/A =		
4						tic Vegetation			
5					1	pid Test for Hy			า
6						minance Test i			
7					3 - Pr	evalence Index	is ≤3.0 <sup>1</sup>		
8					4 - Mo	orphological Ad	aptations	<sup>1</sup> (Provide :	supporting
9						ta in Remarks o			
10		= Tota	al Cov	er	Proble	ematic Hydroph	ytic Vege	tation' (Ex	plain)
Woody Vine Stratum (Plot size: 30' ) 1			a. 00.			s of hydric soil a t, unless disturt			gy must
2.					Hydrophy				
		= Tota	al Cov	/er	Vegetatio	n	,		
% Bare Ground in Herb Stratum 25					Present?	Yes_	<b>√</b>	No	
Remarks:									
I .									

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Sampling Point: T4-DP16

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J	v	ı	ᆫ

Depth	cription: (Descri		eptii need		nent the x Feature		or contiri	m the absence	or indicators.)
(inches)	Color (moist)	%	Cold	or (moist)	%	_Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-16	10 YR 3/1	25	5 YR	4/6	15	<u>C</u>	M/PL	Clay	
	10 YR 6/2	40	5 YR	5/8	20	С	M/PL		
								• ———	
ĺ ——			_	<u> </u>				-	
	oncentration, D=D						ed Sand G		eation: PL=Pore Lining, M=Matrix.
1	Indicators: (App	licable to a	II LRRs, I						for Problematic Hydric Soils <sup>3</sup> :
Histosol	, ,			Sandy (					fuck (A9) (LRR I, J)
. —	pipedon (A2) istic (A3)			Sandy F	kedox (St ! Matrix (S				Prairie Redox (A16) ( <b>LRR F, G, H</b> ) urface (S7) ( <b>LRR G</b> )
1 —	en Sulfide (A4)				•	neral (F1)			lains Depressions (F16)
	d Layers (A5) ( <b>LR</b> I	R F)			Gleyed M				R H outside of MLRA 72 & 73)
	ick (A9) ( <b>LRR F, C</b>				d Matrix (	,		Reduce	ed Vertic (F18)
	d Below Dark Surf	ace (A11)			Dark Surfa	, ,			arent Material (TF2)
	ark Surface (A12)					ırface (F7)	)		hallow Dark Surface (TF12)
	łucky Mineral (S1) łucky Peat or Pea		G H)	High Pla	Depressio		16)		Explain in Remarks) of hydrophytic vegetation and
	icky Peat or Peat					73 of LRR			d hydrology must be present,
	-						·		disturbed or problematic.
Restrictive I	Layer (if present)	:				<u> </u>			
Туре:			<del></del>						
Depth (inc	ches):							Hydric Soil	Present? Yes ✓ No
Remarks:									
No hydric so	oil indicators obs	served.							
HYDROLO	GY								
Wetland Hye	drology Indicator	s:							
-	ators (minimum o		ed; check	all that apply	<b>/</b> )			Seconda	ry Indicators (minimum of two required)
Surface	Water (A1)			Salt Crust	(B11)				ace Soil Cracks (B6)
High Wa	iter Table (A2)			_ Aquatic Inv	ertebrate	s (B13)			sely Vegetated Concave Surface (B8)
Saturatio	on (A3)		_	_ Hydrogen :	Sulfide O	dor (C1)			nage Patterns (B10)
Water M	arks (B1)			_ Dry-Seaso					ized Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		✓	Oxidized R	•		ing Roots	(C3) (w	here tilled)
	osits (B3)				ot tilled)			-	fish Burrows (C8)
	it or Crust (B4)			_ Presence o		`	ł)		ration Visible on Aerial Imagery (C9)
	osits (B5)			_ Thin Muck					morphic Position (D2)
	on Visible on Aeria		B7)	Other (Exp	lain in Re	marks)			-Neutral Test (D5)
Field Observ	tained Leaves (B9	<i>)</i>				<u></u>		Frosi	t-Heave Hummocks (D7) (LRR F)
Surface Water		Vac √	No	_ Depth (inc	hae). 0-	5"			
Water Table				Depth (inc			-		
Saturation Pr				Depth (inc				land Uvelselaev	Present? Yes ✓ No
(includes cap		169	140	_ Debin (inc	, nes )		_   wen	and Hydrology	resent? fes v No
Describe Red	corded Data (strea	m gauge, n	onitoring	well, aerial p	hotos, pr	evious ins	pections),	if available:	
Remarks:									
Wetland hyd	Irology criterion	is not met							
									<u> </u>



Data Point 1 Mesquite Grassland Mosaic



Data Point 1 Mesquite Grassland Mosaic



Data Point 2 Mesquite Grassland Mosaic

T4 - Page 1



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/Cour	<sub>nty:</sub> Lockhai	rt/Caldwell	Sampling Date: 06/19/2013
Applicant/Owner: 130 Environmental Park, LLC				· · · · · · · · · · · · · · · · · · ·	Sampling Point: T5-DP1
Investigator(s): Troegle, Josh & Littleton, Brandyn	=				
Landform (hillslope, terrace, etc.): Hillslope		Local rel	lief (concave,	convex, none): None	Slope (%): 2-5%
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					
			<b>3</b>		
Hydrophytic Vegetation Present? Yes N		ls	the Sampled		
Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N	10 <del>V</del>	w	ithin a Wetlar	nd? Yes	No <u>✓</u>
Remarks:	<u> </u>				
VEGETATION – Use scientific names of plan	ts.				
Tree Stratum (Plot size: 30' )	Absolute % Cover		ant Indicator s? Status	Dominance Test work	
1				Number of Dominant Sp That Are OBL, FACW, or	
2				(excluding FAC-);	<u>0</u> (A)
3.				Total Number of Domin	ant
4				Species Across All Stra	2
			Cover	Percent of Dominant Sp	pecies
Sapling/Shrub Stratum (Plot size: 15'				That Are OBL, FACW,	
1				Prevalence Index wor	ksheet:
2				Total % Cover of:	Multiply by:
3				OBL species	x1=
5.				FACW species	x 2 =
0		= Total (	Cover		x 3 =
Herb Stratum (Plot size: 5')		, 515.		FACU species	x 4 =
1. Monarda citriodora	10	No	_ NI		x 5 =
2. Nassella leucotricha	60	Yes	_ <u>NI</u>	Column Totals:	(A) (B)
3. Aristida purpurea	_ 30	Yes	<u> NI</u>	Prevalence Index	= B/A =
4				Hydrophytic Vegetation	
5				1 - Rapid Test for H	lydrophytic Vegetation
6				2 - Dominance Tes	t is >50%
7				3 - Prevalence Inde	ex is ≤3.0 <sup>1</sup>
9					Adaptations <sup>1</sup> (Provide supporting
10					s or on a separate sheet)
10.	100	= Total 0	Cover		phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30')					l and wetland hydrology must
1				be present, unless distu	irbed or problematic.
2				Hydrophytic	
% Bare Ground in Herb Stratum		= Total (	Cover	Vegetation Yes	s No <u> </u>
Remarks:					

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SOIL

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)
| Depth | Matrix | Redox Features |

Depth	ription: (Desc Mat			nent the indicator o x Features	or confirm the	e absence	of Indicators.)
(inches)	Color (mois		Color (moist)	% Type <sup>1</sup>	Loc²	Texture	Remarks
						•	
		<del></del>	<del></del>	· — — .			
						_	
Type: C=C	oncentration, D	Depletion, RM	=Reduced Matrix, C8	S=Covered or Coated	Sand Grains	 s. <sup>2</sup> Lo	cation: PL=Pore Lining, M=Matrix.
		<del></del>	LRRs, unless other				for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy 0	Gleyed Matrix (S4)		1 cm l	Muck (A9) (LRR I, J)
	pipedon (A2)			Redox (S5)			Prairie Redox (A16) (LRR F, G, H)
Black Hi	stic (A3)		Stripped	Matrix (S6)			Surface (S7) (LRR G)
Hydroge	n Sulfide (A4)		Loamy I	Mucky Mineral (F1)		High F	Plains Depressions (F16)
Stratified	d Layers (A5) ( <b>L</b>	RR F)	Loamy (	Gleyed Matrix (F2)			RR H outside of MLRA 72 & 73)
	rck (A9) (LRR F		Deplete	d Matrix (F3)		Reduc	ced Vertic (F18)
	d Below Dark St	, ,		Dark Surface (F6)			Parent Material (TF2)
	irk Surface (A12			d Dark Surface (F7)	-		Shallow Dark Surface (TF12)
	lucky Mineral (S			Depressions (F8)			(Explain in Remarks)
	lucky Peat or P			ains Depressions (F1			of hydrophytic vegetation and
5 cm Mu	icky Peat or Pea	it (53) (LRR F)	(ML	RA 72 & 73 of LRR I	H)		d hydrology must be present,
Poetrictivo I	_ayer (if preser	41.	<del> </del>	<u> </u>		uniess	s disturbed or problematic.
Depth (inc	ches):					ydric Soil	Present? Yes No _
Remarks:							
YDROLO	GY						
	drology Indicat	ore:					
			d; check all that apply	٨		Const	
		or one require					ary Indicators (minimum of two required)
Surface '	, ,		Salt Crust				face Soil Cracks (B6)
_ ~	ter Table (A2)			/ertebrates (B13)			arsely Vegetated Concave Surface (B8)
Saturatio				Sulfide Odor (C1)			inage Patterns (B10)
	arks (B1)			n Water Table (C2)			dized Rhizospheres on Living Roots (C3
	t Deposits (B2)			hizospheres on Livin	ig Roots (C3)		vhere tilled)
	osits (B3)		•	ot tilled)			yfish Burrows (C8)
_	t or Crust (B4)			of Reduced Iron (C4)			uration Visible on Aerial Imagery (C9)
	osits (B5)		Thin Muck			Geo	omorphic Position (D2)
Inundatio	n Visible on Ae	rial Imagery (B	7) Other (Exp	lain in Remarks)		FAC	C-Neutral Test (D5)
Water-St	ained Leaves (E	39)				Fros	st-Heave Hummocks (D7) (LRR F)
ield Observ	ations:						
Surface Wate	er Present?	Yes	No Depth (inc	ches):	_		
Vater Table	Present?			ches):	1		
Saturation Pr				ches):	- 1	Hydrolog	y Present? Yes No ✓
includes cap	illary fringe)						,
Describe Rec	orded Data (str	eam gauge, mo	onitoring well, aerial p	hotos, previous insp	ections), if av	ailable:	
Remarks:							

Project/Site: 130 Environmental Park City/County: Loc				<sub>inty:</sub> Lockha	rt/Caldwell	Sampling Date: 06/19/201
Applicant/Owner: 130 Environmental Park, LLC			State: TX			
Investigator(s): Troegle, Josh &						
Landform (hillslope, terrace, etc.): H		-				ne Slope (%): 2-4
Subregion (LRR): J - Southweste						
Soil Map Unit Name: WgC - Wilson						
Are climatic / hydrologic conditions or						
Are Vegetation, Soil,						ces" present? Yes ✓ No
Are Vegetation, Soil,						nswers in Remarks.)
SUMMARY OF FINDINGS -						
Hydrophytic Vegetation Present?	Yes <u>√</u>		ls	s the Sampled		
Hydric Soil Present? Wetland Hydrology Present?	Yes Yes	No ▼	W	vithin a Wetlaı	nd? Yes	No <u> </u>
Remarks:		110				
Tremains.						
VEGETATION – Use scientif	fic names of pla	ants.	· ·			
		Absolute	Domin	ant Indicator	Dominance Test	worksheet:
Tree Stratum (Plot size: 30'	)	% Cover		es? Status	Number of Domina	ant Species
1. Ulmus crassifolia			Yes	FAC	That Are OBL, FA	CW, or FAC
2. Prosopis glandulosa			No	FACU	(excluding FAC-):	(A)
3. Quercus virginiana			. <u>No</u>	FACU	Total Number of C	4
4					Species Across Al	Il Strata: 4 (B)
Couling/Charle Charles (Plat size)	15'	60	= Total	Cover	Percent of Domina	
Sapling/Shrub Stratum (Plot size: 1. Ulmus crassifolia	)	20	Yes	FAC	That Are OBL, FA	CW, or FAC: <u>75</u> (A/B
2. Prosopis glandulosa		10	No	FACU	Prevalence Index	worksheet:
3 Ilex vomitoria		50	Yes	FAC	Total % Cove	r of: Multiply by:
4.					OBL species _	x 1 =
5.					FACW species _	x 2 =
		80	= Total	Cover		x 3 =
Herb Stratum (Plot size: 5'	)					x 4 =
1. Nassella leucotricha		90	Yes	NI	UPL species	x 5 =
2. Ambrosia artemisiifolia			No No	FACU	Column Totals: _	(A) (B)
3					Prevalence I	Index = B/A =
4						etation Indicators:
5					1 - Rapid Tes	t for Hydrophytic Vegetation
6					✓ 2 - Dominanc	e Test is >50%
7					3 - Prevalence	e Index is ≤3.0 <sup>1</sup>
8					4 - Morpholog	gical Adaptations¹ (Provide supportin
9						marks or on a separate sheet)
10			= Total	Cover	Problematic F	Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30	)		. 10.01	00.07		ic soil and wetland hydrology must
1					be present, unless	s disturbed or problematic.
2					Hydrophytic	
0/ Page 000000 5			= Total	Cover	Vegetation Present?	Yes <u>√</u> No
% Bare Ground in Herb Stratum 5 Remarks:						
FAC vegetation, not hydrophytic						
rogotation, not nydrophytio						
US Army Corps of Engineers						Great Plains – Version 2.0

Sampling Point: T5-DP2

Profile Des	cription: (Descri	be to the depth	needed to docur	nent the i	ndicator	or confire	n the absence of indi	cators.)			
Depth	Matrix			x Features							
(inches)	Color (moist)		Color (moist)	%	_Type <sup>1</sup>	_Loc <sup>2</sup> _	Texture	Remarks			
0-3	10 YR 4/2	<u>100</u>					Sandy clay				
3-10	10 YR 4/1	100					Clay				
							<del></del>				
	<del></del>		· · · ·								
¹Type: C=C	oncentration, D=E	enletion RM=Re	educed Matrix, CS	S=Covered	or Coate	d Sand G	rains <sup>2</sup> Location:	PL=Pore Lining, M=Matrix.			
<del></del>	Indicators: (App					d Darid G		blematic Hydric Soils <sup>3</sup> :			
Histosol				Sleyed Ma	-		1 cm Muck (A				
ı —	pipedon (A2)			Redox (S5)				Redox (A16) ( <b>LRR F, G, H</b> )			
l — ·	istic (A3)			l Matrix (S			Dark Surface				
Hydroge	Hydrogen Sulfide (A4) Loamy Mucky Minera			eral (F1)		High Plains De					
_	d Layers (A5) ( <b>LR</b>	•	Loamy	Gleyed Ma	atrix (F2)		(LRR H ou	tside of MLRA 72 & 73)			
	uck (A9) ( <b>LRR F, 9</b>			d Matrix (F			Reduced Vertic (F18)				
	d Below Dark Surf	ace (A11)		Dark Surfa			Red Parent Material (TF2)				
l —	ark Surface (A12) Jucky Mineral (S1	١		d Dark Sui Depression		l	Very Shallow Dark Surface (TF12)				
	Mucky Peat or Pea			ains Depre	, ,	16)	Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and				
	icky Peat or Peat		. — -	RA 72 & 7			wetland hydrology must be present,				
	•	, , ,	`			,		ed or problematic.			
Restrictive I	Layer (if present)	•						<del></del>			
Type: Cla	ay pan		_								
Depth (in	ches): Ten		_				Hydric Soil Presen	t? Yes No <u>√</u>			
Remarks:											
HYDROLO											
1	drology Indicator										
Primary India	cators (minimum o	f one required; c	heck all that apply	<b>/</b> )			Secondary Indic	ators (minimum of two required)			
Surface	Water (A1)		Salt Crust	(B11)			Surface Soi	Cracks (B6)			
High Wa	iter Table (A2)		Aquatic Inv	ertebrates/	s (B13)		Sparsely Ve	getated Coricave Surface (B8)			
Saturatio	on (A3)		Hydrogen	Sulfide Od	lor (C1)		Drainage Pa	atterns (B10)			
Water M	arks (B1)		Dry-Seaso					izospheres on Living Roots (C3)			
Sedimer	nt Deposits (B2)		Oxidized R	hizospher	es on Livi	ng Roots					
! —	oosits (B3)			ot tilled)			Crayfish Bu				
_ ~	it or Crust (B4)		Presence of		,	.)		isible on Aerial Imagery (C9)			
	osits (B5)		Thin Muck				<del></del> ·	Position (D2)			
	on Visible on Aeria		Other (Exp	lain in Rer	marks)		FAC-Neutra	` '			
	tained Leaves (B9						Frost-Heave	Hummocks (D7) (LRR F)			
Field Observ			,								
Surface Wate	er Present?		✓ Depth (ind								
Water Table	Present?		✓ Depth (inc								
Saturation Pr		Yes No	✓ Depth (ind	ches):		_ Wetl	and Hydrology Prese	nt? Yes No_ <u>√</u>			
(includes cap	oillary fringe) corded Data (strea	m dalide monite	oring well serial r	hotos pre	avioue ine	nections)	if available:	<del></del>			
Describe Rec	oorded bata (atte	iii gaage, monit	anig well, atrial p	niotos, pre	, vious 1115	pecaono),	n avallable.				
Domorico							····				
Remarks:											

Project/Site: 130 Environmental Park		City/Cour	nty: Lockhar	rt/Caldwell	Sampling Date: 06/19/2	2013
Applicant/Owner: 130 Environmental Park, LLC		-		State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandyn					. 0	
Landform (hillslope, terrace, etc.): Depression					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 th			_			
Are Vegetation, Soil, or Hydrology				Normal Circumstances" p		,
Are Vegetation, Soil, or Hydrology				eded, explain any answer		
SUMMARY OF FINDINGS – Attach site map				· -	•	s. etc.
	<del>_</del>	<u> </u>	-	<u> </u>	<u> </u>	
	No Is the Sample					
Hydric Soil Present? Yes ✓ Metland Hydrology Present? Yes Metland Hydrology Present?	No within a Wetla			nd? Yes	No. <u>√</u>	
Remarks:	···					
						<del></del>
VEGETATION – Use scientific names of plan	ıts.					
Tree Stratum (Plot size: 30')	Absolute		nt Indicator s? Status	Dominance Test works		
1. Ulmus crassifolia	20	Yes	FAC	Number of Dominant Sp That Are OBL, FACW, o		
2. Prosopis glandulosa	10	Yes	FACU	(excluding FAC-):	3	(A)
3				Total Number of Domina	ant	
4.				Species Across All Strat		(B)
	30	= Total (	Cover	Percent of Dominant Sp	ecies	
Sapling/Shrub Stratum (Plot size: 15'	40	3.7	EAG	That Are OBL, FACW, o		(A/B)
1. Ulmus crassifolia	$-\frac{40}{20}$	Yes Yes	— FAC NI	Prevalence Index work	 (sheet:	
2. Diospyros texana 3. Prosopis glandulosa	- <del>20</del>	No	FACU	Total % Cover of:		
4. Castela erecta	- <del>10</del> 5	No	NI NI		x 1 =	
5.				FACW species	x 2 =	_
J	75	= Total 0		FAC species	x 3 =	_
Herb Stratum (Plot size: 5'			50.01	FACU species	x 4 =	_
1. Eleocharis palustris	90	Yes	OBL		x 5 =	_
2. Iva annua	_ 10	No	FAC	Column Totals:	(A)	_ (B)
3				Prevalence Index	= B/A =	
4				Hydrophytic Vegetatio		
5				1 - Rapid Test for H	lydrophytic Vegetation	
6				✓ 2 - Dominance Test	t is >50%	
7				3 - Prevalence Inde	x is ≤3.0 <sup>1</sup>	
9.				4 - Morphological A	daptations¹ (Provide supp	orting
10.				1	or on a separate sheet)  hytic Vegetation¹ (Explain	- >
	100	= Total (	Oover			,
Woody Vine Stratum (Plot size: 30')		•		<sup>1</sup> Indicators of hydric soil be present, unless distu	and wetland hydrology m	ust
1				be present, unless dista		
2				Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 30			Cover	Present? Yes	s_ <u>√</u> No	
Remarks:				1		

US Army Corps of Engineers

Sampling Point: T5-DP3

		r	ı
3	u	ı	L

Profile Des	cription: (Descri	be to the dep	th needed to do	cument the	indicator	or confire	n the absence of	indicators.)
Depth	Matrix			dox Feature		. 2		
(inches) 0-5	Color (moist) 10 YR 2/1		Color (moist) 5 YR 5/8	<u>%</u> 10	Type <sup>1</sup>	Loc2		Remarks
0-5	10 TR 2/1		3 113/0		<u> </u>	<u>M</u>	Clay	
							<del></del>	
<sup>1</sup> Type: C=C	oncentration D=F	enletion RM:	=Reduced Matrix,	CS=Covere	d or Coate	ed Sand G	rains <sup>2</sup> l ocati	on: PL=Pore Lining, M=Matrix.
			LRRs, unless ot			su Sanu G		r Problematic Hydric Soils <sup>3</sup> :
Histosol				y Gleyed Ma				ck (A9) (LRR I, J)
	pipedon (A2)			ly Redox (S5	. ,			airie Redox (A16) (LRR F, G, H)
	stic (A3)			oed Matrix (S				face (S7) (LRR G)
	en Sulfide (A4)			ny Mucky Mir				ns Depressions (F16)
	d Layers (A5) ( <b>LR</b>	RF)	Loan	ny Gleyed M	atrix (F2)			H outside of MLRA 72 & 73)
	ick ( <b>A</b> 9) ( <b>LRR F</b> , <b>0</b>	. ,		eted Matrix (				Vertic (F18)
	d Below Dark Sur			x Dark Surfa				nt Material (TF2)
	ark Surface (A12)			eted Dark Su		}		llow Dark Surface (TF12)
_	lucky Mineral (S1	•		x Depressio				plain in Remarks)
	Mucky Peat or Pea			Plains Depre	,			hydrophytic vegetation and
5 CHI MIL	icky Peat or Peat	(53) (LKK F)	(1	MLRA 72 &	/3 OF LKH	( H)		ydrology must be present, sturbed or problematic.
Restrictive I	_ayer (if present)	):		-			unless dis	sturbed or problematic.
Type: Cla		,						
	ches): Five						Undeia Call Bu	
. ,	ones).		<del></del>				Hydric Soil Pr	esent? Yes <u>√</u> No
Remarks:								
HYDROLO	GY							
	drology Indicator	rs:			•		<u> </u>	
-			i; check all that ag	nnlv)			Secondany	Indicators (minimum of two required)
	Water (A1)	n one required						
_	` ,			ist (B11)	a (D42)			e Soil Cracks (B6)
	ter Table (A2)			Invertebrate				ly Vegetated Concave Surface (B8)
Saturatio	, ,		Hydroge					ge Patterns (B10)
Water M				son Water 1				ed Rhizospheres on Living Roots (C3)
	t Deposits (B2)		Oxidized	•		ing Roots	- ,	re tilled)
Drift Dep	. ,		,	e not tilled)		13		h Burrows (C8)
	t or Crust (B4)			e of Reduce	•	+)		ion Visible on Aerial Imagery (C9)
Iron Dep	• ,	al Imaganii (D'		ick Surface (			<del></del>	rphic Position (D2)
	on Visible on Aeria		7) Other (E	xpiain in Re	marks)		<del></del>	eutral Test (D5)
	tained Leaves (B9	"					Frost-H	leave Hummocks (D7) (LRR F)
Field Observ		.,	. /					
Surface Wate			No V Depth					
Water Table	Present?		No 🗸 Depth			I		
Saturation Pr		Yes I	No ✓ Depth	(inches):		_ Wetl	and Hydrology P	resent? Yes No ✓
(includes cap		am dallde mo	nitoring well, aeria	al nhotos pr	evinue ine	nections)	if available:	
Dearling L/g(	widen Data (Sties	ant gauge, mu	antoning well, aeli	ai priotos, pr	cvious IIIS	pecuons),	n avanable,	
Daw - di								
Remarks:								

Project/Site: 130 Environmental Park		City/Cour	<sub>nty:</sub> Lockhai	rt/Caldwell_	_ Sampling Date: 06/19/2013
Applicant/Owner: 130 Environmental Park, LLC					_ Sampling Point: T5-DP4
Investigator(s): Troegle, Josh & Littleton, Brandy					
Landform (hillslope, terrace, etc.):					slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 11				NWI classif	<del>-</del>
Are climatic / hydrologic conditions on the site typical for					
Are Vegetation, Soil, or Hydrology					resent? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ	
SUMMARY OF FINDINGS - Attach site ma				ocations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes	No <b>√</b>	la.	the Commission	I Auga	
Hydric Soil Present? Yes	No <u>√</u>		the Sampled ithin a Wetlar		No <u>√</u>
Wetland Hydrology Present? Yes	No <u></u> ✓	**	itiliii a wetiai	id: 165	NO <u>·</u>
Remarks:					
VEGETATION – Use scientific names of pla					
Tree Stratum (Plot size: 30'	Absolute % Cover		ant Indicator s? <u>Status</u>	Dominance Test wor	
1. Quercus stellata	75	Yes	FACU	Number of Dominant That Are OBL, FACW	
2. Prosopis glandulosa	25	No	FACU	(excluding FAC-);	<u>2</u> (A)
3. Ulmus crassifolia	50	Yes	FAC	Total Number of Dom	inant
4.				Species Across All St	0
	150	= Total C	Cover	Percent of Dominant	Species
Sapling/Shrub Stratum (Plot size: 15'	10	3.7	) II	That Are OBL, FACW	
1. Mahonia trifoliolata	$-\frac{10}{10}$	No	- NI	Prevalence Index wo	orksheet:
2. Ulmus crassifolia	$-\frac{10}{10}$	No No	FAC		:Multiply by:
3. Crataegus spathulata 4. Prosopis glandulosa	25	No Yes	FAC FACU		x 1 =
		103	- 17100	1	x 2 =
5			~		x 3 =
Herb Stratum (Plot size: 5'		= Total C	Covei		x 4 =
1. Cylindropuntia leptocaulis	5	No	NI	UPL species	x 5 =
2. Opuntia engelmannii	30	Yes	NI NI		(A) (B)
3. Nassella leucotricha	60	Yes	NI	Drovolongo Inda	= D/A -
4				Hydrophytic Vegetat	ex = B/A =
5					r Hydrophytic Vegetation
6				2 - Dominance Te	· · · · · · · · · · · · · · · · · · ·
7				3 - Prevalence In	
8					Adaptations <sup>1</sup> (Provide supporting
9				data in Remar	ks or on a separate sheet)
10	95			Problematic Hydr	ophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'	93	= Total (	Cover	<sup>1</sup> Indicators of hydric s	oil and wetland hydrology must
1. Smilax rotundifolia	40	Yes	FAC		sturbed or problematic.
2.				Hydrophytic	
	40	= Total (	Cover	Vegetation	
% Bare Ground in Herb Stratum				Present? Y	'es No <u>√</u>
Remarks:					

SOIL Sampling Point: T5-DP4 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) (inches) Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Texture 100 10 YR 4/2 0 - 4Sandy Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ Sandy Gleyed Matrix (S4) \_\_\_ 1 cm Muck (A9) (LRR I, J) \_\_\_ Histic Epipedon (A2) \_\_\_ Sandy Redox (S5) \_\_\_ Coast Prairie Redox (A16) (LRR F, G, H) \_\_\_ Stripped Matrix (S6) Black Histic (A3) \_\_\_ Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) \_\_\_ Loamy Mucky Mineral (F1) High Plains Depressions (F16) \_\_\_ Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR F) (LRR H outside of MLRA 72 & 73) \_\_\_ Depleted Matrix (F3) 1 cm Muck (A9) (LRR F, G, H) Reduced Vertic (F18) \_\_\_ Redox Dark Surface (F6) Depleted Below Dark Surface (A11) \_\_\_ Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) \_\_\_ Sandy Mucky Mineral (S1) \_\_\_ Redox Depressions (F8) Other (Explain in Remarks) \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_\_\_ High Plains Depressions (F16) 3Indicators of hydrophytic vegetation and \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Cobble Depth (inches): Four Hydric Soil Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) \_\_\_ Surface Water (A1) \_\_\_ Salt Crust (B11) Surface Soil Cracks (B6) \_\_\_ High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_\_ Saturation (A3) \_\_ Hydrogen Sulfide Odor (C1) \_ Drainage Patterns (B10) \_\_\_ Water Marks (B1) \_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) \_\_\_ Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8)

Presence of Reduced Iron (C4)

IID.1-152

\_ Thin Muck Surface (C7)

Other (Explain in Remarks)

Yes \_\_\_\_\_ No ✓ Depth (inches): \_\_\_

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

Yes \_\_\_\_\_ No ✓ Depth (inches): \_\_\_\_\_

Yes \_\_\_\_ No ✓ Depth (inches): \_\_\_\_\_

\_\_\_ Algal Mat or Crust (B4)

Water-Stained Leaves (B9)

Inundation Visible on Aerial Imagery (B7)

Iron Deposits (B5)

Field Observations:

Surface Water Present?

US Army Corps of Engineers

Water Table Present?

Saturation Present? (includes capillary fringe)

Remarks:

Saturation Visible on Aerial Imagery (C9)

Frost-Heave Hummocks (D7) (LRR F)

✓ Geomorphic Position (D2)

Wetland Hydrology Present? Yes \_\_\_\_\_ No ✓

\_\_\_ FAC-Neutral Test (D5)

Project/Site: 130 Environmenta	l Park	(	City/C	ounty	Lockhar	rt/Caldwe	ell	Sampling [	Date: <u>06/</u>	19/2013
Applicant/Owner: 130 Environme							e: TX			
Investigator(s): Troegle, Josh &										
Landform (hillslope, terrace, etc.):	•						ne): Concav	e	Slope (%	%): 0-2
Subregion (LRR): J - Southwest										
Soil Map Unit Name: HmB - Heide										
Are climatic / hydrologic conditions of										
Are Vegetation, Soil,							cumstances" p		es ✓	No
Are Vegetation, Soil,							ain any answei			
SUMMARY OF FINDINGS -										res, etc.
Hydrophytic Vegetation Present?	Yes	No <u>√</u>								
Hydric Soil Present?	Yes	No <u></u> ✓			ie Sampled iin a Wetlar		Yes	No. of	/	
Wetland Hydrology Present?	Yes	No <u>✓</u>		WILLI	iiii a wellai	iu :	res	NO <u>*</u>		
Remarks:	- · · · · ·									
VECETATION Line asignti	ific names of al	onto								
VEGETATION – Use scienti	me names of pr		Dom	inant	Indicator	Dominar	ice Test work	shoot:		
Tree Stratum (Plot size: 30'	)	% Cover					of Dominant Sr			
1						That Are	OBL, FACW, o			
2						(excludin	g FAC-):	_		(A)
3							nber of Domin			4-1
4						Species	Across All Stra	ta:	•	(B)
Sapling/Shrub Stratum (Plot size:	15'		= Tota	al Cov	ver		of Dominant Sp			(A (D)
1. Prosopis glandulosa	,	90	Yes		FACU	I nat Are	OBL, FACW, o	or FAC: _		— (A/B)
2. Ulmus crassifolia			No		FAC	Prevaler	ice Index worl	ksheet:		
3							1 % Cover of:		Multiply by:	
4.							cies			
5.						1	pecies			
£1		92	= Tota	al Co	ver		cies			
Herb Stratum (Plot size: 5' 1. Eupatorium incarnatum	)	20	No		NI	1	ecies			
1. Nassella leucotricha	<del></del>	85	Yes		NI		cies Fotals:			
						Coldilli	i Otais	(^/		(D)
3 4						Pre	valence Index	= B/A =		
5,						Hydroph	ytic Vegetatio	n Indicator	rs:	
6.							apid Test for H		Vegetation	
7							ominance Tes			
8							revalence Inde			
9						- 4 - N	lorphological A ata in Remarks	daptations' or on a sei	(Provide s parate shee	supporting et)
10							lematic Hydro			•
   Woody Vine S <u>tratum</u> (Plot size: 3	30')	105	= Tot	al Co	ver		rs of hydric soil	_		-
1							nt, unless distu			•
2.						Hydroph	ıytic			
% Bare Ground in Herb Stratum _			= Tot			Vegetati Present	on ? Ye:	s	No <u>✓</u>	
Remarks:						Ţ.				

SOIL

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

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

Depth (inches)	Matr Color (moist	.) %	Color (moist)	%	Type'	_Loc <sup>2</sup> _	Texture	Remarks
				<u></u>				<u> </u>
			1=Reduced Matrix, C I LRRs, unless othe			d Sand Gra		on: PL=Pore Lining, M=Matrix.  r Problematic Hydric Soils <sup>3</sup> :
_ Histosol (	•			Gleyed Matr	-			k (A9) (LRR I, J)
	pedon (A2)			Redox (S5)				hirie Redox (A16) (LRR F, G, H)
Black His				ed Matrix (S6				ace (S7) (LRR G)
	Sulfide (A4)			Mucky Mine			High Plair	ns Depressions (F16)
	Layers (A5) (LF			Gleyed Mati				Houtside of MLRA 72 & 73)
	ck (A9) (LRR F,			ed Matrix (F3	,		Reduced	, ,
	Below Dark Sui			Dark Surface				nt Material (TF2)
	k Surface (A12)	•		ed Dark Surf				low Dark Surface (TF12)
	ucky Mineral (S1 ucky Peat or Pe			Depressions Iains Depres		le)		plain in Remarks) hydrophylic vegetation and
	ucky Peat or Peat ky Peat or Peat	, , ,		nains Depres LRA 72 & 73				nydropnytic vegetation and ydrology must be present,
_ 0 0111 14165	rky i caron i ca.	. (00) (=1:1:1)	\	FI/U 15 ~	J OI LISTS	''')		sturbed or problematic.
								The state of the s
	ayer (if present							
Туре:							V 13- 0-11 p-	
Type: Depth (inch							Hydric Soil Pro	esent? YesNo_✓
Туре:							Hydric Soil Pro	esent? Yes No <u>√</u>
Type: Depth (inch							Hydric Soil Pro	esent? Yes No ✓
Type: Depth (inch demarks:	nes):						Hydric Soil Pro	esent? Yes No <u>√</u>
Type: Depth (inchemarks:	nes):						Hydric Soil Pro	esent? Yes No <u>√</u>
Type: Depth (inchemarks:  **TOROLOG**  Vetland Hydromatics**	nes):	ors:		ilv)				
Type: Depth (inchemarks:  **TOROLOG**  Vetland Hydromary Indica	nes):  Y rology Indicato	ors:	ed; check all that app				Secondary I	Indicators (minimum of two reguire
Type: Depth (inche lemarks:  **TOROLOG**  **Torong	nes):	ors:	od; check all that app	t (B11)	/R13)		Secondary I	Indicators (minimum of two require
Type: Depth (inche lemarks:  **TOROLOG**  **Torontomary Indication of the lemary Indication of the lemark Indicatio	rology Indicato stors (minimum vater (A1) er Table (A2)	ors:	od; check all that app Salt Crus Aquatic Ir	t (B11) nvertebrates	. ,		Secondary I Surface Sparsel	Indicators (minimum of two require Soil Cracks (B6) ly Vegetated Concave Surface (B8
Type: Depth (inche lemarks:  **TOROLOG**  **TOROLOG	rology Indicators (minimum et Vater (A1) er Table (A2) in (A3)	ors:	od; check all that app Salt Crus Aquatic Ir Hydrogen	t (B11) nvertebrates n Sulfide Odo	or (C1)		Secondary I Surface Sparsel Drainag	Indicators (minimum of two require Soil Cracks (B6) Iy Vegetated Concave Surface (B8 Je Patterns (B10)
Type: Depth (inche lemarks:  **TOROLOG**  **TOROLOG	rology Indicators (minimum et alors (Minimum et alors (A1) er Table (A2) er (A3) rks (B1)	ors:	od; check all that app Salt Crus Aquatic Ir Hydrogen Dry-Seas	t (B11) nvertebrates n Sulfide Odo on Water Tal	or (C1) able (C2)	Posts (f	Secondary I  Surface Sparsel Drainag Oxidize	Indicators (minimum of two require Soil Cracks (B6) Iy Vegetated Concave Surface (B8 ge Patterns (B10) d Rhizospheres on Living Roots (C
Type: Depth (inchemarks:  **TOROLOG**  **POROLOG**	rology Indicators (minimum evater (A1) er Table (A2) rks (B1) Deposits (B2)	ors:	od; check all that app Salt Crus Aquatic Ir Hydrogen Dry-Seas Oxidized	t (B11) nvertebrates n Sulfide Odo on Water Tal Rhizosphere	or (C1) able (C2)	ng Roots (	Secondary I  Surface Sparsel Drainag Oxidize C3) (where	Indicators (minimum of two require Soil Cracks (B6) Iy Vegetated Concave Surface (B8 Je Patterns (B10) d Rhizospheres on Living Roots (C re tilled)
Type: Depth (inch temarks:  TDROLOG Tetland Hydr rimary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators (minimum et vater (A1) er Table (A2) er (A3) rks (B1) Deposits (B2) osits (B3)	ors:	ed; check all that app Salt Crus Aquatic Ir Hydrogen Dry-Seas Oxidized (where	t (B11) nvertebrates n Sulfide Odo on Water Tal Rhizosphere not tilled)	or (C1) able (C2) es on Livir		Secondary I Surface Sparsel Drainag Oxidize C3) (where	Indicators (minimum of two require e Soil Cracks (B6) ly Vegetated Concave Surface (B8 ge Patterns (B10) d Rhizospheres on Living Roots (C re tilled) n Burrows (C8)
Type: Depth (inch temarks:  **TOROLOG**  **Vetland Hydromary Indica** _ Surface W _ High Wate _ Saturation _ Water Ma _ Sediment _ Drift Depo _ Algal Mat	rology Indicators (minimum et vater (A1) er Table (A2) er (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4)	ors:	ed; check all that app Salt Crus Aquatic Ir Hydrogen Dry-Seas Oxidized (where Presence	t (B11) nvertebrates n Sulfide Odo on Water Tal Rhizosphere not tilled) of Reduced	or (C1) able (C2) es on Livir		Secondary I  Surface Sparsel Drainag Cxidize C3) (where calculates and controls are controls and controls are controls and controls are controls and controls are controlled are controls are controls are controls are controls are controlled are controls are controlled are contro	Indicators (minimum of two require e Soil Cracks (B6) ly Vegetated Concave Surface (B8 ge Patterns (B10) d Rhizospheres on Living Roots (C re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9)
Type: Depth (inch temarks:  **TOROLOG**  **Vetland Hydrimary Indica** _ Surface W _ High Wate _ Saturation _ Water Ma _ Sediment _ Drift Depo _ Algal Mat _ Iron Depo	rology Indicators (minimum et A2) in (A3) rks (B1) Deposits (B2) or Crust (B4) esits (B5)	ors: of one require	ed; check all that app  Salt Crus Aquatic Ir Hydrogen Dry-Seas Oxidized (where Presence	t (B11) nvertebrates n Sulfide Odo on Water Tal Rhizosphere not tilled) of Reduced k Surface (C	or (C1) able (C2) es on Livir I Iron (C4)		Secondary I  Surface Sparsel Drainag Oxidize C3) (whered) Captisel Saturati Geomo	Indicators (minimum of two require Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (Core tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2)
Type: Depth (inch demarks:  TDROLOG Vetland Hydr rimary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation	rology Indicators (minimum et ators (minimum et A1) er Table (A2) er (A3) rks (B1) Deposits (B2) er (B3) or Crust (B4) er (B5) er Visible on Aer	ors: of one require	ed; check all that app  Salt Crus Aquatic Ir Hydrogen Dry-Seas Oxidized (where Presence	t (B11) nvertebrates n Sulfide Odo on Water Tal Rhizosphere not tilled) of Reduced	or (C1) able (C2) es on Livir I Iron (C4)		Secondary I  Surface Sparsel Drainag Oxidize (wher Saturati Geomo	Indicators (minimum of two require Soil Cracks (B6) by Vegetated Concave Surface (B8 ge Patterns (B10) d Rhizospheres on Living Roots (Cre tilled) in Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5)
Type: Depth (inch demarks:  TDROLOG Vetland Hydr rimary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta	rology Indicators (minimum of Vater (A1) er Table (A2) er (A3) rks (B1) Deposits (B2) or Crust (B4) esits (B5) er Visible on Aerained Leaves (B	ors: of one require	ed; check all that app  Salt Crus Aquatic Ir Hydrogen Dry-Seas Oxidized (where Presence	t (B11) nvertebrates n Sulfide Odo on Water Tal Rhizosphere not tilled) of Reduced k Surface (C	or (C1) able (C2) es on Livir I Iron (C4)		Secondary I  Surface Sparsel Drainag Oxidize (wher Saturati Geomo	Indicators (minimum of two require Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (Core tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2)
Type: Depth (inch temarks:  TDROLOG Vetland Hydr rimary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat _ Iron Depo Inundation Water-Sta ield Observa	rology Indicators (minimum et vater (A1) er Table (A2) er (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) esits (B5) er Visible on Aerained Leaves (Bations:	ors: of one require: ial Imagery (B	od; check all that app  Salt Crus  Aquatic Ir  Tydrogen  Dry-Seas  Oxidized  (where  Presence  Thin Muck	t (B11) nvertebrates n Sulfide Odo on Water Tal Rhizosphere not tilled) of Reduced k Surface (C' oplain in Rem	or (C1) able (C2) es on Livir Hron (C4) 77) harks)	)	Secondary I  Surface Sparsel Drainag Oxidize (wher Saturati Geomo	Indicators (minimum of two require Soil Cracks (B6) by Vegetated Concave Surface (B8 ge Patterns (B10) d Rhizospheres on Living Roots (Cre tilled) in Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5)
Type: Depth (inch temarks:  TDROLOG  Tetland Hydr rimary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta ield Observa	rology Indicators (minimum et vater (A1) er Table (A2) er (A3) er (B1) Deposits (B2) er (B3) or Crust (B4) er (B5) er Visible on Aerianed Leaves (Bations:	ors: of one required ial Imagery (B 9)	ed; check all that app  Salt Crus Aquatic Ir Hydrogen Dry-Seas Oxidized (where Presence Thin Mucl	t (B11) nvertebrates n Sulfide Odo on Water Tal Rhizosphere not tilled) of Reduced k Surface (C' cplain in Rem	or (C1) able (C2) es on Livir Hron (C4) arks)		Secondary I  Surface Sparsel Drainag Oxidize (wher Saturati Geomo	Indicators (minimum of two require Soil Cracks (B6) by Vegetated Concave Surface (B8 ge Patterns (B10) d Rhizospheres on Living Roots (Cre tilled) in Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5)
Type: Depth (inche lemarks:  **TOROLOG**  *	rology Indicators (minimum evater (A1) er Table (A2) er (A3) e	ors: of one require ial Imagery (B' 9) Yes Yes	Salt Crus Salt Crus Aquatic Ir Hydrogen Dry-Seas Oxidized (where Presence Thin Mucl	t (B11) nvertebrates n Sulfide Odo on Water Tal Rhizosphere not tilled) of Reduced k Surface (C cplain in Rem nches):	or (C1) ble (C2) es on Livir liron (C4) ranks)	- -	Secondary I  Surface Sparsel Drainag Oxidize C3) (where Saturati Geomo FAC-Ne	Indicators (minimum of two require a Soil Cracks (B6) by Vegetated Concave Surface (B8 ge Patterns (B10) d Rhizospheres on Living Roots (Core tilled) in Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F)
Type:	rology Indicators (minimum evater (A1) er Table (A2) er (A3) er (A3) or Crust (B4) esits (B5) er Visible on Aerained Leaves (Bations:  Present? Present? Present? Present?	ors: of one require ial Imagery (B 9)  Yes Yes Yes	ed; check all that app  Salt Crus Aquatic Ir Hydrogen Dry-Seas Oxidized (where Presence Thin Mucl	t (B11) nvertebrates n Sulfide Odo on Water Tal Rhizosphere not tilled) of Reduced k Surface (C' xplain in Rem nches):	or (C1) able (C2) es on Livir I Iron (C4) anarks)	- Wetla	Secondary I  Surface Sparsel Drainag Oxidize C3) (wher Saturati Geomo FAC-Ne Frost-H	Indicators (minimum of two requires Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (Cre tilled) in Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2)
Type:	rology Indicators (minimum evater (A1) er Table (A2) er (A3) er (A3) or Crust (B4) esits (B5) er Visible on Aerained Leaves (Bations:  Present? Present? Present? Present?	ors: of one require ial Imagery (B 9)  Yes Yes Yes	Salt Crus Salt Crus Aquatic Ir Hydrogen Dry-Seas Oxidized (where Presence Thin Mucl	t (B11) nvertebrates n Sulfide Odo on Water Tal Rhizosphere not tilled) of Reduced k Surface (C' xplain in Rem nches):	or (C1) able (C2) es on Livir I Iron (C4) anarks)	- Wetla	Secondary I  Surface Sparsel Drainag Oxidize C3) (wher Saturati Geomo FAC-Ne Frost-H	Indicators (minimum of two requires Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (Core tilled) in Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F)
Type:	rology Indicators (minimum evater (A1) er Table (A2) er (A3) er (A3) or Crust (B4) esits (B5) er Visible on Aerained Leaves (Bations:  Present? Present? Present? Present?	ors: of one require ial Imagery (B 9)  Yes Yes Yes	ed; check all that app  Salt Crus Aquatic Ir Hydrogen Dry-Seas Oxidized (where Presence Thin Mucl	t (B11) nvertebrates n Sulfide Odo on Water Tal Rhizosphere not tilled) of Reduced k Surface (C' xplain in Rem nches):	or (C1) able (C2) es on Livir I Iron (C4) anarks)	- Wetla	Secondary I  Surface Sparsel Drainag Oxidize C3) (wher Saturati Geomo FAC-Ne Frost-H	Indicators (minimum of two requires Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (Concertilled) in Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F)



Data Point 1 Mesquite Grassland Mosaic



**Data Point 1** Mesquite Grassland Mosaic



Data Point 2
Riparian Woods (Cedar Elm/Oak)

T5 – Page 1



Data Point 2 Riparian Woods (Cedar Elm/Oak)



Data Point 3 Sumpweed Depressions



Data Point 3 Sumpweed Depressions



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

Project/Site: 130 Environmental Park		City/Co	ounty:	Lockhai	rt/Caldw <u>e</u> ll	Sampling	Date: 06/19	/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 th								
Are Vegetation, Soil, or Hydrology					'Normal Circumstances"		es <b>√</b> N	o
Are Vegetation, Soil, or Hydrology					eded, explain any answ			
SUMMARY OF FINDINGS - Attach site map					-		,	s, etc.
Hydrophytic Vegetation Present? Yes	Vo ✓							
Hydric Soil Present? Yes				Sampled			/	
Wetland Hydrology Present? Yes I	No.  ✓		withii	n a Wetlar	id? Yes	No_ <u>⊀</u>	<u></u>	
Remarks:								
VEGETATION – Use scientific names of plan	nts.						<del></del> -	
TEST ATTOM COST STATE OF THE ST	Absolute	Dom	inant	Indicator	Dominance Test wor	kshoot:		
<u>Tree Stratum</u> (Plot size: 30'	% Cover				Number of Dominant S			
1.					That Are OBL, FACW,			
2					(excluding FAC-):		<u> </u>	(A)
3					Total Number of Domi		4	
4			·		Species Across All Str	ata:	<del></del> -	(B)
Sapling/Shrub Stratum (Plot size: 15'		= Tota	al Cove	∍r	Percent of Dominant S		DE .	
Prosopis glandulosa  1. Prosopis glandulosa	25	Yes		FACU	That Are OBL, FACW,	, or FAC:	25	(A/B)
2					Prevalence Index wo	rksheet:		
3					Total % Cover of:		Multiply by:	_
4					OBL species			_
5.					FACW species			
<i>5</i> 1	25	= Tota	al Cove	∍r	FAC species			
Herb Stratum (Plot size: 5'	5	NI.		MI	FACU species			_
1. Opuntia engelmannii 2. Nassella leucotricha	50	No Yes		NI NI	UPL species			- (5)
3.6 1 3.1.1	60	Yes		NI NI	Column Totals:	(A)		_ (B)
3. Monarda citirodora 4. Ambrosia artemisiifolia	20	No		FAU	Prevalence Inde	x = B/A = _		_
5. Coreopsis tinctoria	60	Yes		FAC	Hydrophytic Vegetat	ion Indicato	rs:	
6					1 - Rapid Test for	Hydrophytic	Vegetation	
7					2 - Dominance Te			
8					3 - Prevalence Inc			
9.					4 - Morphological data in Remark	Adaptations <sup>1</sup>	(Provide sup	porling
10					Problematic Hydro			
201	195	= Tota	al Cove	er		•		•
Woody Vine Stratum (Plot size: 30')					<sup>1</sup> Indicators of hydric so be present, unless dis			nust
1					,			
2			-L C		Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 5		= 10ta	ai Cove	31		es	No <u>✓</u>	
Remarks:								

SOIL						Sampling Poin	nt: T6-DP1
Profile Description: (De	escribe to the dep	th needed to docu	ment the indicator	or confirm	the absence of		
	Matrix		ox Features	<del> </del>			
(inches) Color (m	noist) %	Color (moist)	<u>%Type</u> 1	Loc <sup>2</sup>	Texture	Remarks	
			<b>_</b>				
1Tune: C=Concentration	D-Danlatian DM	- Radiused Matrix C			-: 21	. 51 5 111	
Type: C=Concentration, Hydric Soil Indicators:	<del></del>			ed Sand Gr		ion: PL=Pore Lining,	
Histosol (A1)	(Applicable to all		Gleyed Matrix (S4)			•	Jons .
Histic Epipedon (A2)			Redox (S5)			ck (A9) ( <b>LRR I, J</b> ) airie Redox (A16) ( <b>LR</b>	DE C U\
Black Histic (A3)		•	d Matrix (S6)			face (S7) (LRR G)	кг, о, п)
Hydrogen Sulfide (A4	1)		Mucky Mineral (F1)			ns Depressions (F16)	
Stratified Layers (A5)			Gleyed Matrix (F2)			H outside of MLRA 7	
1 cm Muck (A9) (LRF	R F, G, H)	Deplete	ed Matrix (F3)		Reduced		,
Depleted Below Dark	, ,		Dark Surface (F6)			ent Material (TF2)	
Thick Dark Surface (/			ed Dark Surface (F7)	)		llow Dark Surface (TF	12)
Sandy Mucky Minera			Depressions (F8)	:40)		kplain in Remarks)	
2.5 cm Mucky Peat o 5 cm Mucky Peat or F			ains Depressions (F .RA 72 & 73 of LRR	•		hydrophytic vegetatio	
J GIT MUCKY Feat OFF	-eat (55) (ERRT)	(III)	.KA 12 & 13 01 EKR	(n)		lydrology must be pres sturbed or problemation	
Restrictive Layer (if pres	sent):		<del></del>		dilless di	starbed or problematic	<i>.</i> .
Type:	*						
Depth (inches):					Hydric Sail D	resent? Yes	No. of
Remarks:	•				Tiyane don't		
Nemarks.							
	·						
HYDROLOGY							
Wetland Hydrology India							_
Primary Indicators (minim	um of one required				Secondary	Indicators (minimum o	of two required)
Surface Water (A1)		Salt Crust			Surfac	e Soil Cracks (B6)	
High Water Table (A2	2)		vertebrates (B13)		Sparse	ly Vegetated Concave	e Surface (B8)
Saturation (A3)			Sulfide Odor (C1)		Draina	ge Patterns (B10)	
Water Marks (B1)			on Water Table (C2)			ed Rhizospheres on Li	ving Roots (C3)
Sediment Deposits (B	32)		Rhizospheres on Liv	ing Roots (	C3) (whe	ere tilled)	
Drift Deposits (B3)		,	not tilled)			h Burrows (C8)	
Algal Mat or Crust (B4	4)		of Reduced Iron (C4	1)	Satura	tion Visible on Aerial I	magery (C9)
Iron Deposits (B5)			Surface (C7)			orphic Position (D2)	
Inundation Visible on	3 , ,	) Other (Exp	olain in Remarks)			eutral Test (D5)	
Water-Stained Leave:	s (B9)	<u> </u>			Frost-H	leave Hummocks (D7	) (LRR F)
Field Observations:							
Surface Water Present?			ches):	1			
Water Table Present?			ches):	I			
Saturation Present?	Yes 1	lo Depth (in	ches):	_ Wetia	nd Hydrology P	resent? Yes	_ No <u>√</u>
(includes capillary fringe) Describe Recorded Data (	stream dauge mo	nitoring well aeriat	photos, previous ins	nections) if	f available:		
2000,00 Hoodided Data (	,gaago, mo			,	. available.		
Remarks:						<del></del>	
nomains.							

Project/Site: 130 Environmental Park		Citv/Cou	<sub>intv:</sub> Lockha	rt/Caldwell	Sampling Date: 06	/19/2013	
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T6-DP2		
Investigator(s): Troegle, Josh & Littleton, Brandy							
Landform (hillstope, terrace, etc.): Depression					ve 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 for							
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"		No	
Are Vegetation, Soil, or Hydrology				eeded, explain any answ		_ 140	
SUMMARY OF FINDINGS – Attach site ma				, ,	,	ures etc	
The state of the s	.p onoming		mig point i		o, important roat		
Hydrophytic Vegetation Present? Yes ✓		19	s the Sampled	f Area			
Hydric Soil Present? Yes ✓		v	vithin a Wetlaı	nd? Yes <u>√</u>	No		
Wetland Hydrology Present? Yes ✓ Remarks:	No			·			
Appears to be an old pig wallow.							
7 Appears to be all old pig waller.							
VEGETATION – Use scientific names of pl	ants.						
30'	Absolute		ant Indicator	Dominance Test wor	ksheet:		
Tree Stratum (Plot size: 30' )  1. Prosopis glandulosa	% Cover	Yes	Status FACU	Number of Dominant That Are OBL, FACW			
2. Quercus virginiana	10	No	FACU	(excluding FAC-):	, or FAC _4	(A)	
3. Ulmus crassifolia	25	Yes	FAC	Total Number of Dom	inant		
4. Celtis occidentalis	10	No	FAC	Species Across All Str	7	(B)	
7.	95	= Total	Cover	Percent of Dominant 9			
Sapling/Shrub Stratum (Plot size: 15'				That Are OBL, FACW	, or FAC: <u>57</u>	(A/B)	
1. Prosopis glandulosa	10	Yes	FACU	Prevalence Index wo	rkehoot:	· · · · · · · · · · · · · · · · · · ·	
2. Ulmus crassifolia		Yes	— FAC		Multiply b	v-	
3. Diospyrus texana	15	Yes No	NI FACU		x 1 =		
4. Quercus virginiana		110			x 2 =		
5	40	= Total	Cover		x 3 =		
Herb Stratum (Plot size: 5' )		- Total	Covei	FACU species	x 4 =		
1. Eleocharis palustris	90	Yes	OBL	UPL species	x 5 =		
2. Iva annua	25	Yes	FAC		(A)	(B)	
3				Prevalence Inde	x = B/A =		
4		· <del></del>		Hydrophytic Vegetat			
5					· Hydrophytic Vegetatio	on	
6				✓ 2 - Dominance Te			
7				3 - Prevalence Inc			
8				4 - Morphological	Adaptations <sup>1</sup> (Provide	supporting	
9		-		data in Remar	ks or on a separate sh	eet)	
10		= Total	Cover	Problematic Hydr	ophytic Vegetation <sup>1</sup> (Ex	xplain)	
Woody Vine Stratum (Plot size: 30' )		_ = 10tai	Covei		oil and wetland hydrolosturbed or problematic.	gy must	
1				be present, utiless dis			
2		-		Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 20		_ = Total	Cover	Present? Y	'es <u>√</u> No		
Remarks:					- <del></del>		
Sapling/Shrub and tree on perimeter of depression	on.						

SOIL Sampling Point: T6-DP2

Profile Des	cription: (Descri	e to the depth	needed to docu	ment the	indicator	or confir	m the absence of	indicators.)
Depth	<u>Matrix</u>		Red	ox Feature		. 3		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		Remarks
0-8	10 YR 3/1	<u>85 5</u>	YR 5/8	_ 15	_ <u>C</u>	M/PL	Clay	
						_		
				_	_			
	-							
								· ·
-								
1								
	Concentration, D=D					ed Sand G		on: PL=Pore Lining, M=Matrix.
-	Indicators: (App	licable to all LR						Problematic Hydric Soils <sup>3</sup> :
Histoso				Gleyed M				k (A9) (LRR I, J)
1	Epipedon (A2)			Redox (S				irie Redox (A16) (LRR F, G, H)
	listic (A3) en Sulfide (A4)			ed Matrix (	,			ace (S7) (LRR G)
	en Sunde (A4) ed Layers (A5) (LRI	) E\		Mucky Mi Gleyed M		,		s Depressions (F16)  I outside of MLRA 72 & 73)
	uck (A9) (LRR F, 0			ed Matrix			Reduced	,
	ed Below Dark Surf			Dark Surf	. ,			nt Material (TF2)
, — ·	ark Surface (A12)			ed Dark S	, ,	')		low Dark Surface (TF12)
	Mucky Mineral (S1)	<b>)</b>		Depression		,		plain in Remarks)
2.5 cm	Mucky Peat or Pea	it (S2) ( <b>LRR G, F</b>	H) High P	lains Depr	ressions (f	<del>-</del> 16)		ydrophytic vegetation and
5 cm M	ucky Peat or Peat	(S3) ( <b>LRR F</b> )	(Mi	LRA 72 &	73 of LRI	₹ <b>H</b> )	wetland hy	drology must be present,
							unless dis	turbed or problematic.
	Layer (if present)	:						
Type: C			_					
Depth (in	nches): Eight		_				Hydric Soil Pre	esent? Yes No
Remarks:								
						<del></del>		
HYDROLO								
Wetland Hy	drology Indicator	s:						
Primary Indi	icators (minimum o	<u>f one required; c</u>	heck all that app	ly)			Secondary	ndicators (minimum of two required)
Surface	Water (A1)		Salt Crus	t (B11)			Surface	Soil Cracks (B6)
High W	ater Table (A2)		Aquatic Ir	vertebrate	es (B13)		Sparsel	y Vegetated Concave Surface (B8)
Saturati	ion (A3)		Hydrogen	Sulfide O	dor (C1)		Drainag	e Patterns (B10)
Water N	//arks (B1)		Dry-Seas	on Water	Table (C2	)	Oxidize	d Rhizospheres on Living Roots (C3)
Sedime	nt Deposits (B2)		✓ Oxidized	Rhizosphe	eres on Liv	ving Roots		e tilled)
Drift De	posits (B3)		(where	not tilled	)		Crayfish	Burrows (C8)
Algal M	at or Crust (B4)		Presence	of Reduce	ed Iron (C	4)	Saturati	on Visible on Aerial Imagery (C9)
Iron De	posits (B5)		Thin Mucl	k Surface	(C7)		✓ Geomoi	phic Position (D2)
Inundat	ion Visible on Aeria	I Imagery (B7)	Other (Ex	plain in Re	emarks)		FAC-Ne	eutral Test (D5)
Water-S	Stained Leaves (B9	)						eave Hummocks (D7) (LRR F)
Field Obser	rvations:							
Surface Wat	ter Present?	Yes No	✓ Depth (ir	iches):				
Water Table			✓ Depth (ir					
Saturation F			✓ Depth (ir			I	land Hydrology Pr	resent? Yes ✓ No
	pillary fringe)	163 140	Deptil (ii			_   '''•'	iana riyarology Fi	esent: 1es <u>·                                     </u>
	corded Data (strea	m gauge, monite	oring well, aerial	photos, p	revious in	spections)	, if available:	
Remarks:								

Project/Site: 130 Environmental Park		City/Cou	<sub>inty:</sub> Lockha	rt/Caldwell	_ Sampling Date: 06/19/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T6-DP3
Investigator(s): Troegle, Josh & Littleton, Brandy					<u> </u>
Landform (hillslope, terrace, etc.): None				•	Slone (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 t					
Are climatic / hydrologic conditions on the site typical for t					
Are Vegetation, Soil, or Hydrology					present? Yes No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic	:? (If n∈	eeded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site may	p showing	samp	ling point l	ocations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes	No 🗸				
Hydric Soil Present? Yes			s the Sampled		,
Wetland Hydrology Present? Yes	No ✓	W	rithin a Wetlar	nd? Yes	No <u>√</u>
Remarks:					
VEGETATION – Use scientific names of pla	ınts.				
201	Absolute		ant Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size: 30'			s? Status	Number of Dominant S	
1. Celtis laevigata		Yes Yes	FACU	That Are OBL, FACW (excluding FAC-):	, or FAC(A)
2. Prosopis glandulosa			— FACO		
3				Total Number of Domi	
4	125			Species Across All Str	***************************************
Sapling/Shrub Stratum (Plot size: 15' )	125	= Total	Cover	Percent of Dominant S	
1. Celtis laevigata	20	Yes	FACU	That Are OBL, FACW	, or FAC: 29% (A/B)
2. Prosopis glandulosa	40	Yes	FACU	Prevalence Index wo	rksheet:
3. Diospyros texana	15	N	NI	Total % Cover of:	Multiply by:
4					x1 =
5					x 2 =
	75	= Total	Cover		x 3 =
Herb Stratum (Plot size: 5'				}	x 4 =
1. Salvia coccinea		Yes	NI NI		x 5 =
2. Cylindropuntia leptocaulis	10	No	<u>NI</u>	Column Totals:	(A) (B)
3. Eupatorium incarna		Yes	NI FACE	Prevalence Inde	x = B/A =
4. Rottboellia cochinchinensis	1	No	FACU	Hydrophytic Vegetat	
5					Hydrophytic Vegetation
6				2 - Dominance Te	
7				3 - Prevalence Inc	
8				4 - Morphological	Adaptations <sup>1</sup> (Provide supporting
9				data in Remarl	ks or on a separate sheet)
10				Problematic Hydro	ophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30'		= Total	Cover	<sup>1</sup> Indicators of hydric so	oil and wetland hydrology must
1. Cissus incisa	5	Yes	NI	be present, unless dis	
2				Hydrophytic	
	_	= Total	Cover	Vegetation	,
% Bare Ground in Herb Stratum 10				Present? Y	es No
Remarks:					

SOIL Sampling Point: T6-DP3 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Texture (inches) <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: \_\_\_ 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) <sup>3</sup>Indicators of hydrophytic vegetation and \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_\_\_ High Plains Depressions (F16) \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_\_ Depth (inches): \_ Hydric Soil Present? Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) \_\_\_ Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) \_\_\_ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_\_ Saturation (A3) \_\_\_ Drainage Patterns (B10) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) \_\_\_ Iron Deposits (B5) Thin Muck Surface (C7) \_\_\_ Geomorphic Position (D2) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_\_ No ✓ Depth (inches): \_\_\_\_\_ Surface Water Present? Yes \_\_\_\_\_ No <u>√</u>\_\_ Depth (inches): \_\_\_\_\_ Water Table Present? Yes \_\_\_\_\_ No <u>✓</u> Depth (inches): \_\_\_\_\_ Saturation Present? Wetland Hydrology Present? Yes \_\_\_\_ No ✓ \_\_ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: 130 Environmental Park  Applicant/Owner: 130 Environmental Park, LLC  Applicant/Owner: 130 Environmental Park, LLC  State: TX  Sampling Point: 16-DP4  Investigator(s): 170egle, Josh & Littleton, Brandyn  Landform (hillslope, terrace, etc.): None  Local relief (concave, convex, none): None  Slope (%): 2-4  Subregion (LRR): 1-Southwestern Prairies  Lat: 29.97  Long: -97.66  Datum: NAD 83  Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5 percent slopes  Are Climatic / hydrologic conditions on the site typical for this time of year? Yes  Are Vegetation, Soil, or Hydrology significantly disturbed?  Are Vegetation, Soil, or Hydrology naturally problematic?  Hydrophytic Vegetation Present?  Hydrophytic Vegetation Present?  Yes  Yes  No  No  Wetland Hydrology Present?  Yes  Yes  No  Within a Wetland?  Yes No  Within a Wetland?  Yes No  Within a Wetland?  Yes No  Within a Wetland?	
Investigator(s): Troegle, Josh & Littleton, Brandyn  Section, Township, Range: NA  Landform (hillslope, terrace, etc.): None  Local relief (concave, convex, none): None  Slope (%): 2-4  Subregion (LRR): J - Southwestern Prairies  Lat: 29.97  Long: -97.66  Datum: NAD 83  Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5 percent slopes  Are climatic / hydrologic conditions on the site typical for this time of year? Yes V No (If no, explain in Remarks.)  Are Vegetation , Soil , or Hydrology significantly disturbed?  Are "Normal Circumstances" present? Yes No No Normal Circumstances in Remarks.)  SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	
Subregion (LRR): J - Southwestern Prairies  Lat: 29.97  Long: -97.66  Datum: NAD 83  Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5 percent slopes  Are climatic / hydrologic conditions on the site typical for this time of year? Yes / No (If no, explain in Remarks.)  Are Vegetation, Soil, or Hydrology significantly disturbed?  Are "Normal Circumstances" present? Yes / No (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present?  Yes / No Is the Sampled Area  Hydric Soil Present?  Yes / No Unit no. 29.66  Datum: NAD 83  No (If no, explain in Remarks.)	
Subregion (LRR): J - Southwestern Prairies  Lat: 29.97  Long: -97.66  Datum: NAD 83  Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5 percent slopes  Are climatic / hydrologic conditions on the site typical for this time of year? Yes / No (If no, explain in Remarks.)  Are Vegetation, Soil, or Hydrology significantly disturbed?  Are "Normal Circumstances" present? Yes / No  Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present?  Yes / No Is the Sampled Area  Hydric Soil Present?  Yes / No Within a Westland?  Yes Westland?	1
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5 percent slopes  Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No  Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Is the Sampled Area  Hydric Soil Present? Yes No Within a Westland? Yes No Within a Westland?	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No  Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Is the Sampled Area  Hydric Soil Present? Yes No Within a Westland? Yes Yes No Within a Westland?	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, et  Hydrophytic Vegetation Present? Yes No Is the Sampled Area  Hydric Soil Present? Yes No Within a Westland?	
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Is the Sampled Area Hydric Soil Present? Yes No Within a Wetland? Yes No Within a Wetland?	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes   Yes  No  Hydric Soil Present?  Yes  Westernd?  Yes Westernd?  Yes Westernd?	
Hydrophytic Vegetation Present?  Yes   No Is the Sampled Area  Hydric Soil Present?  Yes   No Within a Wattend?	ito.
Hydric Soil Present? Yes ✓ No within a Wattend?	-
Wetland Hydrology Present? Yes No Within a Wetland? Yes No V	
Wetland Hydrology Freschis 763 No	
Remarks:	
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indicator  Tree Stratum (Plot size: 30'	
1. Ulmus crassifolia 75 Yes FAC That Are OBL, FACW, or FAC	
2. Quercus stellata 25 Yes FACU (excluding FAC+): 4 (A)	)
3. <u>Prosopis glandulosa</u> 10 No FACU Total Number of Dominant	
4. Celtis laevigata 10 No FAC Species Across All Strata; 7 (B)	
Sapling/Shrub Stratum (Plot size: 151 ) = Total Cover   Percent of Dominant Species   That Are OBL FACW, or FAC: 57% (A/B	
Sapling/Shrub Stratum (Plot size: 15 )  1. Diospyros texana 10 No nl That Are OBL, FACW, or FAC: 57% (A/B	B)
2. Ulmus crassifolia 40 Yes FAC Prevalence Index worksheet:	
3 Mahonia trifoliolata 5 No NI Total % Cover of: Multiply by:	
4. Ilex vomitoria 5 No FAC OBL species x 1 =	
5. FACW species x 2 =	
60 = Total Cover FAC species x 3 =	
Herb Stratum (Plot size: 5' )   FACU species	
70 V., NI	33
2. Eupatorium incarnatum 20 res NI Column Iotals: (A) (B) 3. Nassella leucotricha 40 Yes NI	1)
4. Opuntia engelmannii 2 No NI Prevalence Index = B/A =	
Hydrophytic Vegetation Indicators:	
6.	
2 - Dominance Lest is >50%	
g 3 - Frevalence index is \$3.0	
9 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)	ng
10 Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size: 30' ) 1Indicators of hydric soil and wetland hydrology must	
1 Smilax rotundifolia 5 Yes FAC be present, unless disturbed or problematic.	
2. Hydrophytic	
5 - Total Cover Vegetation	
% Bare Ground in Herb Stratum 30 Present? Yes V No	
Remarks:	

Sampling Point: T6-DP4 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Type<sup>1</sup> (inches) Color (moist) % Loc2 Texture 0-8 10 YR 3/1 85 5 YR 5/8 15 С Clay M/PL <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: Sandy Gleyed Matrix (S4) \_\_\_ Histosol (A1) \_ 1 cm Muck (A9) (LRR I, J) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) \_\_\_ Black Histic (A3) \_\_\_ Stripped Matrix (S6) Dark Surface (S7) (LRR G) \_\_\_ Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) High Plains Depressions (F16) \_\_\_ Stratified Layers (A5) (LRR F) \_\_\_ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) \_\_\_ 1 cm Muck (A9) (LRR F, G, H) \_ Depleted Matrix (F3) Reduced Vertic (F18) \_\_\_ Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Other (Explain in Remarks) \_\_\_ High Plains Depressions (F16) \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) <sup>3</sup>Indicators of hydrophytic vegetation and \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Clay Pan / Cobble Depth (inches): Eight Hydric Soil Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) \_\_\_ High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_\_ Saturation (A3) Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) \_\_\_ Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) \_\_ Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) \_\_\_ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_ No ✓ Depth (inches): \_\_\_ Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_\_ Water Table Present?

Saturation Present?

Remarks:

(includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No ✓

Yes \_\_\_\_\_ No ✓ \_\_ Depth (inches): \_\_\_\_\_\_

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

Project/Site: 130 Environmental Park		City/Cou	<sub>ntv:</sub> Lockhai	rt/Caldwell	Sampling Date: _06/19/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T6-DP5
Investigator(s): Troegle, Josh & Littleton, Brandyr					
Landform (hillslope, terrace, etc.): None			•		Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: HoC2 - Houston Black clay, 3 to					
Are climatic / hydrologic conditions on the site typical for th					
Are Vegetation, Soil, or Hydrology					oresent? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe	
					,
SUMMARY OF FINDINGS – Attach site map	showing	sampl	ing point i	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No <u> </u>	le.	the Sampled	Aroa	
Hydric Soil Present? Yes	No <u>√</u>		ithin a Wetlar		No <u>√</u>
Wetland Hydrology Present? Yes	No <u>√</u>				
Remarks:					
VEGETATION – Use scientific names of pla	nts.				
201	Absolute		ant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 30')	% Cover 85	Specie: Yes	s? Status FACU	Number of Dominant S	
Quercus stellata     Ulmus crassifolia	25	Yes	FAC	That Are OBL, FACW, (excluding FAC-):	or FAC 3 (A)
		100	_ <del>TAC</del>		
3				Total Number of Domin Species Across All Stra	7
4	110	= Total (	Cover		
Sapling/Shrub Stratum (Plot size: 15')				Percent of Dominant Sp That Are OBL, FACW, of	
1. Mahonia trifoliolata	_ 25	Yes	NI NI	Prevalence Index wor	kehoati
2. Ilex vomitoria	_ 50	Yes	FAC		Multiply by:
3. Crataegus spathulata	_ 5	No	FAC	1	x 1 =
4				i	x 2 =
5	80	= Total (	Covor	1	x 3 =
Herb Stratum (Plot size: 5'		- Total C	20461		x 4 =
1. Eupatorium incarnatum	20	Yes	NI	UPL species	x 5 =
2. Setaria leucopila		Yes	<u>NI</u>	Column Totals:	(A) (B)
3			<del></del>	Prevalence Index	= B/A =
4				Hydrophytic Vegetation	
5				1 - Rapid Test for H	
6.				2 - Dominance Tes	t is >50%
7				3 - Prevalence Inde	ex is ≤3.0 <sup>1</sup>
8 9				4 - Morphological A	daptations <sup>1</sup> (Provide supporting
10					s or on a separate sheet)
	95	= Total (	Cover		phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'				<sup>1</sup> Indicators of hydric soil be present, unless distu	l and wetland hydrology must
1. Smilax rotundifolia		Yes	FAC		
2				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 50	50	= Total (	Jover		s No <u>√</u>
Remarks:	<del></del>				
					ļ

Soil Sampling Point: T6-DP5

			needed to document the indicator of	or confirm	the absence of	indicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Features  Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup>	T t	
(inches) 0-8	10 YR 4/2	<del></del> _	Color (moist) % Type <sup>1</sup>	LOC	Texture	Remarks
	10 YR 5/3				- Carray Clay	
	10 11 3/3		<del></del>		·	
					<u> </u>	
					_	
1						
			educed Matrix, CS=Covered or Coated RRs, unless otherwise noted.)	d Sand Gra		on: PL=Pore Lining, M=Matrix.
1 -		icable to all Li	•			r Problematic Hydric Soils <sup>3</sup> :
Histosol	pipedon (A2)		Sandy Gleyed Matrix (S4) Sandy Redox (S5)			ck (A9) ( <b>LRR I, J</b> ) airie Redox (A16) ( <b>LRR F, G, H</b> )
	istic (A3)		Stripped Matrix (S6)			ace (S7) (LRR G)
	en Sulfide (A4)		Loamy Mucky Mineral (F1)			ns Depressions (F16)
Stratified	d Layers (A5) ( <b>LRR</b>	( F)	Loamy Gleyed Matrix (F2)			H outside of MLRA 72 & 73)
	ıck (A9) ( <b>LRR F, G</b>		Depleted Matrix (F3)		Reduced	Vertic (F18)
	d Below Dark Surfa	ice (A11)	Redox Dark Surface (F6)			nt Material (TF2)
1	ark Surface (A12)		Depleted Dark Surface (F7)			llow Dark Surface (TF12)
1	Mucky Mineral (S1) Mucky Peat or Peat	(S2) (LRR G	<ul><li>Redox Depressions (F8)</li><li>High Plains Depressions (F1</li></ul>	6)		pfain in Remarks) hydrophytic vegetation and
_	icky Peat or Peat (		(MLRA 72 & 73 of LRR I			ydrology must be present,
_	,	/ (/	(	,		sturbed or problematic.
	Layer (if present):				-	,
Type: Co	bble/Clay Pan		_			
Depth (in:	ches); Eight		_		Hydric Soil Pre	esent? Yes No ✓
Remarks:						
	OV					
HYDROLO						
	drology Indicators					
[		one required;	check all that apply)		Secondary	Indicators (minimum of two required)
Surface	, ,		Salt Crust (B11)			e Soil Cracks (B6)
	ter Table (A2)		Aquatic Invertebrates (B13)		· ·	ly Vegetated Concave Surface (B8)
Saturatio			Hydrogen Sulfide Odor (C1)			ge Patterns (B10)
	arks (B1)		Dry-Season Water Table (C2)			d Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		Oxidized Rhizospheres on Livin	ig Roots (C	,	re tilled)
	osits (B3)		(where not tilled)			h Burrows (C8)
	it or Crust (B4) osits (B5)		Presence of Reduced Iron (C4) Thin Muck Surface (C7)			ion Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (R7)	Other (Explain in Remarks)			rphic Position (D2)
	tained Leaves (B9)		Other (Explain in Remarks)			eutral Test (D5) leave Hummocks (D7) ( <b>LRR F</b> )
Field Observ						leave Huminiocks (DT) (LKK F)
Surface Wate		Yes No	✓ Depth (inches):			
Water Table	Procent?	Yas No	✓ Depth (inches):	-		
Saturation Pr			✓ Depth (inches):		od Hydrology D	resent? Yes No √
(includes cap	illary fringe)					resent? res No_V
		n gauge, monit	oring well, aerial photos, previous insp	ections), if	available:	
Remarks:						

Project/Site: 130 Environmental Park		Citv/Co	ounty: L	.ockhai	rt/Caldwell	Sampling Date: 0	6/19/2013
Applicant/Owner: 130 Environmental Park, LLC							
Investigator(s): Troegle, Josh & Littleton, Brandyr							
					convex, none): None	Slope	e (%)· 2-4
Subregion (LRR): J - Southwestern Prairies							
Soil Map Unit Name:					NWI classifi	-	
Are climatic / hydrologic conditions on the site typical for th							
Are Vegetation, Soil, or Hydrology					"Normal Circumstances"		Nie
Are Vegetation, Soil, or Hydrology							NO
SUMMARY OF FINDINGS – Attach site map					eeded, explain any answe ocations, transects	,	tures. etc.
Hydrophytic Vegetation Present? Yes ✓			Is the S	Sampled	l Area		
Hydric Soil Present? Yes  Wetland Hydrology Present? Yes			within a	a Wetlar	nd? Yes	No <u>√</u>	
Remarks:	NO						
Riparian terrace area. Hydrology indicative of high	flow inund:	ation o	nly dur	ina floo	ding from intermittent	etream	
Tripanan terrace area. Trydrology indicative of high	now mana	alion o	illy dui	ing noo	ang nom memmen	sucam.	
						<u> </u>	
VEGETATION – Use scientific names of pla	nts.					_	
30'	Absolute		nant In		Dominance Test worl	ksheet:	
Tree Stratum (Plot size: 30'  1. Ulmus crassifolia	% Cover 60	Yes		AC	Number of Dominant S		
				AC	That Are OBL, FACW, (excluding FAC-):	or FAC 2	(A)
2							(1)
3		-			Total Number of Domin Species Across All Stra		(B)
4	60	- Total				·	
Sapling/Shrub Stratum (Plot size: 15'		_ 10tai	i Covei		Percent of Dominant S That Are OBL, FACW,		(A/B)
1. Ulmus crassifolia	95	Yes	F.	AC			(7.02)
2. Celtis laevigata	_ 5	No	F	AC	Prevalence Index wo		
3. Quercus virginiana		No	F.	ACU	Total % Cover of:		
4					OBL species		
5	<del></del>				FACW species		
Herb Stratum (Plot size: 5'	110	= Total	l Cover		FACU species		
1					Column Totals:	x 5 =	—— (B)
3							(5)
4						c = B/A =	
5					Hydrophytic Vegetati	on Indicators:	
6.					1 - Rapid Test for	, , ,	ion
7					✓ 2 - Dominance Te		
8.					3 - Prevalence Ind		
9.						Adaptations¹ (Provid s or on a separate s	
10					Problematic Hydro	•	,
201		= Total	l Cover				,
Woody Vine Stratum (Plot size: 30' )					<sup>1</sup> Indicators of hydric so be present, unless dist		
1,					····	- Probleman	
2					Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 90		. = Total	ıl Cover		Present? Ye	es <u>√</u> No	
Remarks:							
All FAC vegetation. Does not exhibit hydrophytic c	haracteristi	cs or n	norpho	logical :	adaptations typically o	bserved in regular	lv
inundated areas.		1 11		- 3.50.		aa iii rogalal	.7

US Army Corps of Engineers

Sampling Point: T6-DP6 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Texture \_\_\_ (inches) 95 5 0-10 10 YR 3/1 10 YR 6/1 D M Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: Sandy Gleyed Matrix (S4) \_\_\_ 1 cm Muck (A9) (LRR I, J) Histosol (A1) 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) \_\_\_ Redox Depressions (F8) Sandy Mucky Mineral (S1) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_\_\_ High Plains Depressions (F16) 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): \_ **Hydric Soil Present?** Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) \_\_\_ High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_\_ Saturation (A3) \_\_\_ Hydrogen Sulfide Odor (C1) ✓ Drainage Patterns (B10) \_\_\_ Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) ✓ Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) ✓ Geomorphic Position (D2) Iron Deposits (B5) \_\_\_ Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_ No ✓ Depth (inches): Surface Water Present? Yes \_\_\_\_\_ No \_ Depth (inches): \_\_\_\_\_ Water Table Present? Yes \_\_\_\_ No ✓ \_ Depth (inches): \_\_\_\_ Wetland Hydrology Present? Yes ✓ \_\_\_ No\_ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Drift deposits appear to be from recent high flow from adjacent intermittent stream. Not indicative of regular seasonal inundation.

Project/Site: 130 Environmental Park		Citv/Cou	<sub>intv:</sub> Lockhai	rt/Caldwell	Sampling Date: 06/19/2013		
Applicant/Owner: 130 Environmental Park, LLC			Sampling Point: T6-DP7				
Investigator(s): Troegle, Josh & Littleton, Brandyn Section, Township, Range: NA							
Landform (hillslope, terrace, etc.): None			-		Sione (%): 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 th					•		
Are Vegetation, Soil, or Hydrology					resent? Yes 🗸 No		
Are Vegetation, Soil, or Hydrology	naturally pro	blematic	:? (If ne	eded, explain any answer	s in Remarks.)		
SUMMARY OF FINDINGS - Attach site map	showing	samp	ling point le	ocations, transects,	important features, etc.		
Hydrophytic Vegetation Present? Yes	do 🗸						
Hydric Soil Present? Yes N	10 <del>√</del>	1	the Sampled				
Wetland Hydrology Present? Yes N	√ Vo	W	ithin a Wetlar	nd? Yes	No <u>√</u>		
Remarks:					<del></del> ,,		
VEGETATION III : CG		<u>-</u>					
VEGETATION – Use scientific names of plan				I =			
Tree Stratum (Plot size: 30' )	Absolute % Cover		ant Indicator es? <u>Status</u>	Dominance Test works			
1. Ulmus crassifolia	85	Yes	FAC	Number of Dominant Sp That Are OBL, FACW, o			
2. Prosopis glandulosa	15	No	FACU	(excluding FAC-):	<u>2</u> (A)		
3.				Total Number of Domina	ant		
4				Species Across All Strat	a: <u>6</u> (B)		
1 51	100	= Total	Cover	Percent of Dominant Spe	ecies		
Sapling/Shrub Stratum (Plot size: 15'	20	Van	NIE	That Are OBL, FACW, o			
1. Diospyros texana 2. Ulmus crassifolia	- 5	Yes No	— NI FAC	Prevalence Index work	sheet:		
3. Mahonia trifoliolata	10	Yes	- NI	Total % Cover of:	Multiply by:		
					x 1 =		
4.       5.					x 2 =		
J	35	= Total	Cover	FAC species	x 3 =		
Herb Stratum (Plot size: 5' )		1014	00.01	FACU species	x 4 =		
1. Elymus virginicus	25	Yes	FAC FAC	UPL species			
2. Teucrium canadense	_ 5	No	FACW	Column Totals:	(A) (B)		
3. Eupatorium incarnatum	35	Yes	<u>NI</u>	Prevalence Index	≃ B/A =		
4. Nassella leucotricha	_ 20	Yes	NI	Hydrophytic Vegetation			
5				1 - Rapid Test for H			
6				2 - Dominance Test	is >50%		
7				3 - Prevalence Index	x is ≤3.0 <sup>1</sup>		
8 9				4 - Morphological A	daptations <sup>1</sup> (Provide supporting		
10.					or on a separate sheet)		
	85	= Total	Cover		hytic Vegetation <sup>1</sup> (Explain)		
Woody Vine Stratum (Plot size: 30'				<sup>1</sup> Indicators of hydric soil be present, unless distur	and wetland hydrology must		
1							
2				Hydrophytic Vegetation			
% Bare Ground in Herb Stratum		= Total (	Cover		No <u>√</u>		
Remarks:				<del> </del>			

Wetland Hydrology Indicators:	-				
Primary Indicators (minimum of one required; check all the	nat apply)	Secondary Indicators (minimum of two required)			
Surface Water (A1) Sa Aq Aq Aq Aq High Water Table (A2) Aq Hy Ag Hy Dn Dn Color Algal Mat or Crust (B4) Pre Iron Deposits (B5) Thi	It Crust (B11) uatic Invertebrates (B13) drogen Sulfide Odor (C1) y-Season Water Table (C2) idized Rhizospheres on Living Roots (C3) where not tilled) esence of Reduced Iron (C4) in Muck Surface (C7) ner (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Oxidized Rhizospheres on Living Roots (C3)</li> </ul>			
Water-Stained Leaves (B9)		Frost-Heave Hummocks (D7) (LRR F)			
Field Observations:					
Surface Water Present? Yes No De	epth (inches):				
Water Table Present? Yes No De	epth (inches):				
Saturation Present? Yes No De (includes capillary fringe)	epth (inches): Wetland	Hydrology Present? Yes No ✓			
Describe Recorded Data (stream gauge, monitoring well,	, aerial photos, previous inspections), if av	railable:			
Remarks:					



Data Point 1 Mesquite Grassland Mosaic



Data Point 1 Mesquite Grassland Mosaic



Data Point 2 Sumpweed Depressions

T6 - Page 1



Data Point 2 Sumpweed Depressions



Data Point 3 Mesquite Woods



Data Point 3 Mesquite Woods

T6 - Page 2



Data Point 4
Forested Wetlands



Data Point 4
Forested Wetlands



Data Point 5 Post Oak Woods

T6 - Page 3



Data Point 5 Post Oak Woods



Data Point 6 Riparian Woods (Cedar Elm/Oak)



Data Point 7 Cedar Elm Woods

T6 - Page 4



Data Point 7 Cedar Elm Woods

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Project/Site: 130 Environmental Park		Citv/Co	ounty: Lo	ockhar	t/Caldwell	Sampling Date: 0	6/27/2013	
Applicant/Owner: 130 Environmental Park, LLC		State: TX						
Investigator(s): Troegle, Josh & Boe, Brian Section, Township, Range: NA								
Landform (hillslope, terrace, etc.): Toe of hillslope						Slone	(%)· <b>2-4</b>	
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: Ts - Tinn soils, frequently flood								
					NWI classific		iabic	
Are climatic / hydrologic conditions on the site typical for this								
Are Vegetation, Soil, or Hydrology s					Normal Circumstances"		No	
Are Vegetation, Soil, or Hydrology r	naturally pro	blemat	tic?	(If nee	eded, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling p	oint lo	cations, transects	s, important fea	tures, etc.	
Hydrophytic Vegetation Present? Yes ✓ N	0							
Hydric Soil Present? Yes N	° <del>√</del>		Is the Sa					
Hydric Soil Present?         Yes         N           Wetland Hydrology Present?         Yes         N	o <del>V</del>		within a	Wetlan	d? Yes_ <u>▼</u>	No		
Remarks:				,		·		
Live oak woodland area, adjacent to stream channe	l. Data po	int is I	located in	n weste	ern part of northern ha	alf of property.		
VEGETATION – Use scientific names of plan	40				, ,,,	· · · · · · · · · · · · · · · · · · ·		
VEGETATION – Ose scientific flames of plan	Absolute	Domi	inant Indi	licator	Dominance Test worl	kohooti		
Tree Stratum (Plot size: 30'	% Cover				Number of Dominant S			
1. Quercus fusiformis	80	Yes	UP:	L	That Are OBL, FACW,	or FAC		
2. Celtis laevigata	8	No	FA	.c	(excluding FAC-):	2	(A)	
3					Total Number of Domin	^		
4					Species Across All Stra	ata: <u>3</u>	(B)	
Sapling/Shrub Stratum (Plot size: 15')	88	= Tota	al Cover		Percent of Dominant S			
1. Celtis laevigata	15	No	FA	'C	That Are OBL, FACW,	or FAC; 66	(A/B)	
2. Ulmus crassifolia	75	Yes	FA	.C	Prevalence Index wo	rksheet:		
3. Quercus fusiformis	10	No	UP	,r	Total % Cover of:			
4. Ilex decidua	10	No	FA	.C	OBL species			
5					FACW species			
51	110	= Tota	al Cover		FACILITIES			
Herb Stratum (Plot size: 5'					FACU species			
1					UPL species  Column Totals:			
2.					Column Totals.	(A)	(D)	
3					Prevalence Index	c = B/A =		
5					Hydrophytic Vegetati	on Indicators:		
6.				_		Hydrophytic Vegetati	ion	
7					✓ 2 - Dominance Tes			
8.					3 - Prevalence Ind			
9.					4 - Morphological , data in Remark	Adaptations <sup>1</sup> (Providess or on a separate si	e supporting heet)	
10					Problematic Hydro			
201		= Tota	al Cover					
Woody Vine Stratum (Plot size: 30' )  1 Toxicodendron radicans	5	No	FΔ	CU	<sup>1</sup> Indicators of hydric so be present, unless dist			
2. Smilax rotundifolia	70	Yes	—— FA	<del></del>		-		
Z. Similar rotational of the	75		al Cover	-	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 85		- 1018		_	Present? Ye	es <u>√</u> No		
Remarks:								
Hydrophytic vegetation criterion is met.								

Profile Des	cription: (Describ	e to the depth nee	ded to document the indicator or	confirm	the absence	of indicators.)
Depth	<u>Matrix</u>		Redox Features			
(inches)	Color (moist)		lor (moist) % Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u>Remarks</u>
0-5	10 YR 2/1	100			Clay	
5-16	10 YR 2/1	60			Clay	
5-16	10 YR 6/1	40			Silt	Silty texture
	-					
			ced Matrix, CS=Covered or Coated	Sand Gra		cation: PL=Pore Lining, M=Matrix.
1 -		licable to all LRRs,	unless otherwise noted.)			for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Gleyed Matrix (S4)			Muck (A9) (LRR I, J)
	oipedon (A2) stic (A3)		Sandy Redox (S5)			Prairie Redox (A16) (LRR F, G, H)
_	en Sulfide (A4)		Stripped Matrix (S6) Loamy Mucky Mineral (F1)			Surface (S7) ( <b>LRR G</b> ) Plains Depressions (F16)
	d Layers (A5) ( <b>LRF</b>	? F)	Loamy Gleyed Matrix (F2)			RR H outside of MLRA 72 & 73)
1	ick (A9) ( <b>LRR F, G</b>		Depleted Matrix (F3)			ed Vertic (F18)
	d Below Dark Surfa		Redox Dark Surface (F6)		_	arent Material (TF2)
1 3	ark Surface (A12)	, ,	Depleted Dark Surface (F7)			hallow Dark Surface (TF12)
Sandy M	lucky Mineral (S1)		Redox Depressions (F8)			(Explain in Remarks)
	/lucky Peat or Pea		High Plains Depressions (F16)	)	3Indicators	of hydrophytic vegetation and
5 cm Mu	icky Peat or Peat (	S3) ( <b>LRR F</b> )	(MLRA 72 & 73 of LRR H)	)	wetland	d hydrology must be present,
-					unless	disturbed or problematic.
!	_ayer (if present):					
Type:						
Depth (inc	ches):				Hydric Soil	Present? Yes No _
Remarks:						
No hydric so	oil indicators obs	erved.				
HYDROLO	GV			<del></del>		
_	drology indicator		I II 4b - 4			
		one required; chec	***			rry Indicators (minimum of two required)
_	Water (A1)	-	_ Salt Crust (B11)			ace Soil Cracks (B6)
	ter Table (A2)	_	Aquatic Invertebrates (B13)			rsely Vegetated Concave Surface (B8)
Saturatio	, ,	-	_ Hydrogen Sulfide Odor (C1)			nage Patterns (B10)
i —	arks (B1)	_	_ Dry-Season Water Table (C2)	D		dized Rhizospheres on Living Roots (C3)
ı —	t Deposits (B2)	-	_ Oxidized Rhizospheres on Living	Roots (C	, ,	here tilled)
	osits (B3)		(where not tilled)			fish Burrows (C8)
	t or Crust (B4)	_	Presence of Reduced Iron (C4)			ration Visible on Aerial Imagery (C9)
	osits (B5)		Thin Muck Surface (C7)			morphic Position (D2)
i .	on Visible on Aeria		_ Other (Explain in Remarks)			-Neutral Test (D5)
Field Observ	tained Leaves (B9)	1			Fros	t-Heave Hummocks (D7) (LRR F)
		V N/	Death (Labora)			
Surface Wate			Depth (inches):			
Water Table			Depth (inches):			
Saturation Pr		Yes No <u>▼</u>	Depth (inches):	Wetlar	nd Hydrology	Present? Yes No ✓
(includes cap Describe Red		m gauge, monitorin	g well, aerial photos, previous inspec	tions), if	available:	
	. ,	,/!!!		,,		
Remarks:				<del></del>		·
	on Floodolain 7	one A: however r	o other hydrology indicators we	re obse	rved Metla	nd hydrology criterion is not met.
Sum point is	100apiaiii £	,	I all of the state of the s	.0 00001	ITGUA	a nyarology officials is not met.



Data Point 1 Riparian Woods (Cedar Elm/Oak

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Project/Site: 130 Environmental Park		City/Co	ounty: L	_ockhar	rt/Caldwell	Sampling Date: 06	5/20/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandyn Section, Township, Range: NA							
Landform (hillslope, terrace, etc.): Hillslope		Local r	relief (co	oncave, o	convex, none): None	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 th							
Are Vegetation, Soil, or Hydrology					Normal Circumstances"		No
Are Vegetation, Soil, or Hydrology					eded, explain any answe		
SUMMARY OF FINDINGS – Attach site map						,	tures, etc.
Hydrophytic Vegetation Present? Yes 1	No. d	T					
Hydric Soil Present? Yes 1				Sampled		,	
Wetland Hydrology Present? Yes	within a Wetlan				nd? Yes	No <u>√</u>	
Remarks:						<u> </u>	
VEGETATION – Use scientific names of plan							
VEGETATION – Ose scientific flames of plan	Absolute	Domi	inant In	dicator	Dominance Test worl	rehoot:	<del>-</del>
Tree Stratum (Plot size: 30'	% Cover				Number of Dominant S		
1. Quercus stellata	60	Yes	F	ACU	That Are OBL, FACW,	or FAC	
2					(excluding FAC-):	1	(A)
3					Total Number of Domin	^	
4					Species Across All Stra	ata: 6	(B)
15!	60	= Total	l Cover		Percent of Dominant S		
Sapling/Shrub Stratum (Plot size: 15' )  1. Ulmus crassifolia	30	Yes	F.	AC	That Are OBL, FACW,	or FAC: 16	(A/B)
Otmus crassifotta     Mahonia trifoliolata	30	Yes	— <u> </u>		Prevalence Index wo	rksheet:	
					Total % Cover of:		)V:
3	_	. —			OBL species		
5					FACW species		
0		= Total	L Cover		FAC species	x3 =	
Herb Stratum (Plot size: 5'		_ 10181	II COVEI		FACU species	x 4 =	
1. Dichanthelium linearifolium	25	Yes	N	II	UPL species	x 5 =	
2. Eragrostis hirsuta	25	Yes	F	ACU	Column Totals:	(A)	(B)
3. Carex planostachys	15	Yes	N	<u> </u>	Prevalence Index	c = B/A =	
4					Hydrophytic Vegetati		
5		. ——	— –		1 - Rapid Test for		on
6		. ——			2 - Dominance Te	, , , ,	OII
7					3 - Prevalence Ind		
8						Adaptations <sup>1</sup> (Provide	supporting
9						s or on a separate sh	
10					Problematic Hydro	phytic Vegetation <sup>1</sup> (E	xplain)
Woody Vine Stratum (Plot size: 30' )		•	il Cover		<sup>1</sup> Indicators of hydric so be present, unless dist		
1		. —				arbod or problematio	
2					Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 80		= Total	ıl Cover			es No_ <u>√_</u>	_
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.  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.  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.  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.  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.  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=Depleted Matrix, CS=Covered or Coated Sand Grains.  Type: C=Concentration, D=Depleted Matrix, CS=Covered or Coated Sand Grains.  Type: C=Concentration, D=Depleted Matrix, CS=Covered or Coated Sand Grains.  Type: C=Concentration, D=Depleted Matrix, CS=Covered or Coated Sand Grains.  Type: C=Concentration, D=Depleted Matrix, CS=Covered or Coated Sand Grains.  Type: C=Concentration, D=Depleted Matrix, CS=Covered or Coated Sand Grains.  Type: C=Concentration, D=Depleted Matrix, CS=Covered
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Sandy Redox (S5)  Stripped Matrix (S6)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR F)  Depleted Below Dark Surface (A11)  Sandy Mucky Mineral (F1)  Thick Dark Surface (A12)  Sandy Redox Depressions (F8)  2.5 cm Mucky Peat or Peat (S2) (LRR G, H)  Mestrictive Layer (if present):  Type:  Depth (inches):  Histosol (A1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Coast Prairie Redox (A16) (LRR F, G, F)  Lom Muck (A9) (LRR F, G, F)  Loamy Mucky Mineral (F1)  Loamy Mucky Mineral (F1)  Loamy Gleyed Matrix (F2)  Loamy Gleyed Matrix (F2)  Loamy Gleyed Matrix (F2)  Loamy Gleyed Matrix (F3)  Redox Depressions (F16)  Redox Dark Surface (F6)  MLRA 72 & 73 of LRR H)  Wetland hydrology must be present, unless disturbed or problematic.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Sandy Gleyed Matrix (S4)  Histic Epipedon (A2)  Sandy Redox (S5)  Coast Prairie Redox (A16) (LRR F, G, F)  Black Histic (A3)  Hydrogen Sulfide (A4)  Straified Layers (A5) (LRR F)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Redox Depressions (F8)  Sestrictive Layer (if present):  Type:  Depth (inches):  Histosol (A1)  Sandy Gleyed Matrix (S4)  Lom Muck (A9) (LRR F, G, F)  Loamy Gleyed Matrix (S6)  Dark Surface (S7) (LRR G)  High Plains Depressions (F16)  Loamy Gleyed Matrix (F2)  Loamy Gleyed Matrix (S6)  Dark Surface (S7) (LRR G)  High Plains Depressions (F16)  (LRR H outside of MLRA 72 & 73)  Reduced Vertic (F18)  Reduced Vertic (F18)  Reduced Vertic (F18)  Red 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:  Depth (inches):  Hydric Soil Present? Yes No yet
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Sandy Gleyed Matrix (S4)  Histic Epipedon (A2)  Sandy Redox (S5)  Coast Prairie Redox (A16) (LRR F, G, F)  Black Histic (A3)  Hydrogen Sulfide (A4)  Straipped Matrix (S6)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR F)  Depleted Matrix (F2)  Thick Dark Surface (A11)  Sendy Redox Matrix (F3)  Redox Dark Surface (F6)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1)  Redox Depressions (F8)  Sondy Mucky Peat or Peat (S2) (LRR 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)  Other (Explain in Remarks)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 cm Muck (A9) (LRR I, J)  Coast Prairie Redox (A16) (LRR F, G, F)  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 of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type:  Depth (inches):  Depth (inches):  Hydric Soil Present? Yes No Year (A16)
Histic Epipedon (A2)
Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Pepleted Below Dark Surface (A12) Pepleted Dark Surface (F6) Pepleted Dark Surface (F7) Sandy Mucky Mineral (S1) Pepleted Dark Surface (F7) Period Depressions (F8) Pedox Depressions (F8) Pepleted Dark Surface (F7) Pepleted Dark Surface (F7) Period Depressions (F8) Pepleted Dark Surface (F7) Period Depressions (F8) Pepleted Dark Surface (F7) Period Depressions (F8) Pepleted Dark Surface (F8) Pepleted Matrix (F3) Pepleted Dark Surface (F6) Pepleted Dark Surface (F6) Pepleted Dark Surface (F6) Pepleted Dark Surface (F6) Pepleted Dark Surface (F7) Pepleted Dark Surface
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 No   Hydric Soil Present? Yes No No   Lagrange
Type:
Depth (inches): Hydric Soil Present? Yes No V
Remarks:
YDROLOGY Wetland Hydrology Indicators:
Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (minimum of two recondary Indicat
Surface Water (A1)
High Water Table (A2)
Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roo
Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  (where tilled)
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Oxidized Rhizospheres on Living Roots (C3)  (where not tilled)  Crayfish Burrows (C8)  Presence of Reduced Iron (C4)  Saturation Visible on Aerial Imagery (C4)
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Oxidized Rhizospheres on Living Roots (C3)  (where not tilled)  (where not tilled)  Presence of Reduced Iron (C4)  Thin Muck Surface (C7)  Geomorphic Position (D2)
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Oxidized Rhizospheres on Living Roots (C3)  (where not tilled)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C4)  Geomorphic Position (D2)  FAC-Neutral Test (D5)
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Oxidized Rhizospheres on Living Roots (C3)  (where not tilled)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C2)  Geomorphic Position (D2)  FAC-Neutral Test (D5)  Frost-Heave Hummocks (D7) (LRR F
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Oxidized Rhizospheres on Living Roots (C3)  (where not tilled)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery ( Geomorphic Position (D2)  FAC-Neutral Test (D5)  Frost-Heave Hummocks (D7) (LRR F
Sediment Deposits (B2)
Sediment Deposits (B2)

Project/Site: 130 Environmental Park		Cifv/Cnu	<sub>ntv</sub> . Lockha	rt/Caldwell	Sampling Date: 06/21/2013
Applicant/Owner: 130 Environmental Park, LLC				Sampling Point: T8-DP2	
Investigator(s): Troegle, Josh & Littleton, Brandyr					Cumpling Cont.
Landform (hillslope, terrace, etc.): None			-	-	Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: MaB - Mabank loam, 1 to 3 percentage					
•				NWI classific	
Are climatic / hydrologic conditions on the site typical for the	-				,
Are Vegetation, Soil, or Hydrology					oresent? Yes ✓ 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	sampl	ing point l	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No ✓				
Hydric Soil Present? Yes	No 🗸		the Sampled		/
Wetland Hydrology Present? Yes	No <del></del> ✓	W	ithin a Wetlar	na? Yes	No <u>√</u>
Remarks:					
VEGETATION . He asimulfic access of plan	-4-				
VEGETATION – Use scientific names of plan		D		Daminana Tartana	
<u>Tree Stratum</u> (Plot size: 30'	Absolute _%_Cover		ant Indicator s? <u>Status</u>	Dominance Test work  Number of Dominant S	
1. Ulmus crassifolia	80	Yes	FAC	That Are OBL, FACW,	
2. Quercus virginiana	40	Yes	FACU	(excluding FAC-):	<u>4</u> (A)
3				Total Number of Domin	
4				Species Across All Stra	ata: 7 (B)
0. 17. 201. 1.00 (7.10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	120	= Total 0	Cover	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 15' )	50	Yes	FAC	That Are OBL, FACW,	or FAC: (A/B)
2 Mahonia trifoliolata	20	Yes	NI NI	Prevalence index wor	ksheet:
3. Diospyros texana	_ 5	No	NI	Total % Cover of:	Multiply by:
4					x 1 = <u>0</u>
5				FACW species 0	x 2 = 0
	80	= Total 0	Cover		x 3 = 510
Herb Stratum (Plot size: 5'			<b>7</b> 1.0	FACU species 90	
1. Elymus virginicus	_ 25	Yes	- FAC	UPL species 30	x = 150 (A) 1020 (B)
2. Eupatorium incarnatum	5 50	No Yes	— NI FACU	Column Totals: 290	(A) <u>1020</u> (B)
3. Lolium perenne			FACU	Prevalence Index	= B/A = 3.52
4				Hydrophytic Vegetation	on Indicators:
5				1 - Rapid Test for I	Hydrophylic Vegetation
6. 7.				2 - Dominance Tes	
8				3 - Prevalence Inde	
9					Adaptations <sup>1</sup> (Provide supporting
10.	_				s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain)
	80	= Total 0	Cover		
Woody Vine Stratum (Plot size: 30'			D	Indicators of hydric soil be present, unless distri	l and wetland hydrology must
1. Smilax rotundifolia		Yes	FAC	be present, unless disti	
2	15			Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 75	15	= Total (	Jover		s No_ <u>√</u>
Remarks:				.l <u>-</u>	

	cription: (Describe	to the depth	needed to docu	ment the ind	icator o	r confirn	the absen	ce of indicat	tors.)	
Depth	Matrix		Redo	ox Features						
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Гуре <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarl	ks
0-2	10 YR 3/2	100		- — <del>_</del> -			Sandy clay	у		
								_		
				<del></del>						
								_		
Tyne: C=C	oncentration, D=Dep	oletion RM=R	educed Matrix C	S=Covered or	Coated	Sand Gr	raine <sup>2</sup> I	ocation: PL	=Pore Linine	M-Motriy
	Indicators: (Applic					Odina Oi		rs for Proble	ematic Hvdi	ric Soils <sup>3</sup> :
Histosol	(A1)		Sandy	Gleyed Matrix	(S4)			1 Muck (A9)	-	
Histic E	pipedon (A2)			Redox (S5)	,			st Prairie Re		RR F, G, H)
Black Hi	istic (A3)		Strippe	d Matrix (S6)			Dark	Surface (S7	(LRR G)	
	en Sulfide (A4)			Mucky Minera				n Plains Depr		
	d Layers (A5) (LRR I			Gleyed Matrix	. ,			LRR H outsi		(72 & 73)
	ick (A9) ( <b>LRR F, G, l</b> d Below Dark Surfac			ed Matrix (F3) Dark Surface			_	uced Vertic ( Parent Mate	,	
	ark Surface (A12)	C (A11)		ed Dark Surface				Shallow Da		FE12\
	lucky Mineral (S1)			Depressions (	, ,			er (Explain in		11-12)
	Mucky Peat or Peat (	S2) ( <b>LRR G,</b> l		ains Depressi		6)		rs of hydroph		ion and
5 cm Mu	icky Peat or Peat (S	3) (LRR F)		.RA 72 & 73 c				and hydrolog		
										tic
							unle	ss disturbed	or problema	uc.
	Layer (if present):			···			unte	ss disturbed	or problema	
Type: Do	bble							_	<del>·</del>	
Type: Do					*****			ss disturbed	<del>·</del>	
Type: <u>Do</u> Depth (inc	bble							_	<del>·</del>	
Type: <u>Do</u> Depth (inc	bble							_	<del>·</del>	
Type: <u>Do</u> Depth (inc	bble							_	<del>·</del>	
Type: <u>Do</u> Depth (ind Remarks:	bble ches): <u>Five</u>							_	<del>·</del>	
Type: Do Depth (inc Remarks:  YDROLO	ches): Five							_	<del>·</del>	
Type: Do Depth (inc Remarks:  YDROLO	bble ches): <u>Five</u>							_	<del>·</del>	
Type: Do Depth (in: Remarks:  YDROLO Wetland Hyd	ches): Five	ne required; o	   	у)			Hydric Sc	oil Present?	Yes	No ✓
Type: Do Depth (in: Remarks:  YDROLO Vetland Hyde	ches): Five  GY drology Indicators:	ne required; c	Salt Crust	(B11)			Hydric So	oil Present?	Yes	No ✓
Type: Do Depth (ini Remarks:  YDROLO Wetland Hyd Primary India Surface High Wa	GY drology Indicators: cators (minimum of o Water (A1) iter Table (A2)	ne required; c	Salt Crust		313)		Hydric So	dary Indicate	Yes	
Type: Do Depth (in: Remarks:  YDROLO Wetland Hyd Primary Indic Surface	GY drology Indicators: cators (minimum of o Water (A1) iter Table (A2)	ne required; o	Salt Crust Aquatic In	(B11)			Hydric So Secon So So	dary Indicate	Yes	No ✓
Type: Do Depth (in: Remarks:  YDROLO Wetland Hyo Primary Indic Surface High Wa Saturatic Water M	GY drology Indicators: eators (minimum of o Water (A1) tter Table (A2) on (A3) arks (B1)	ne required; o	Salt Crust Aquatic In Hydrogen Dry-Seaso	(B11) vertebrates (E Sulfide Odor on Water Tabl	(C1) e (C2)		Hydric Sc   Secon   St   Di   O:	dary Indicate urface Soil C parsely Vege	Yes  ors (minimum racks (B6) tated Conca	No ✓  n of two required  ve Surface (B8)
Type: Do Depth (in: Remarks:  YDROLO Wetland Hyd Surface High Wa Saturatio Water M Sedimer	GY drology Indicators: eators (minimum of o Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2)	ne reguired; o	Salt Crust Aquatic In Hydrogen Dry-Seasc	(B11) vertebrates (E Sulfide Odor on Water Tabl Rhizospheres	(C1) e (C2)	g Roots (	Secon Signature	dary Indicate urface Soil C parsely Vege	Yes  ors (minimum racks (B6) tated Conca erns (B10) ospheres on	No ✓
Type: Do Depth (in: Remarks:  YDROLO  Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep	GY drology Indicators: eators (minimum of o Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3)	ne required; o	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F	(B11) vertebrates (E Sulfide Odor on Water Tabl Rhizospheres not tilled)	(C1) e (C2) on Living	g Roots (	Second	dary Indicate urface Soil C parsely Vege rainage Patte xidized Rhizo (where tilled rayfish Burro	Yes ors (minimum racks (B6) tated Conca erns (B10) ospheres on I) ws (C8)	No ✓  n of two required  ve Surface (B8)  Living Roots (C3)
Type: Do Depth (in: Remarks:  YDROLO  Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma	GY drology Indicators: eators (minimum of o Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4)	ne required; c	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I	(B11) vertebrates (E Sulfide Odor on Water Tabl Rhizospheres not tilled) of Reduced Ir	(C1) e (C2) on Living on (C4)	g Roots (	Secon   Sign	dary Indicate Urface Soil Coarsely Vege rainage Patte xidized Rhizo (where tilled rayfish Burrov aturation Visi	Yes ors (minimum racks (B6) tated Conca orns (B10) ospheres on I) ws (C8) ble on Aeria	No ✓
Type: Do Depth (in: Remarks:  YDROLO  Wetland Hyd Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep	GY drology Indicators: eators (minimum of o Water (A1) of (A3) arks (B1) of Deposits (B2) oosits (B3) of or Crust (B4) oosits (B5)		Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck	(B11) vertebrates (E Sulfide Odor on Water Tabl Rhizospheres not tilled) of Reduced Ir Surface (C7)	(C1) e (C2) on Livino on (C4)	g Roots (	Second	dary Indicate urface Soil Coarsely Vege rainage Patte xidized Rhize (where tilled rayfish Burror aturation Visi	Yes	No ✓  n of two required  ve Surface (B8)  Living Roots (C:
Type: Do Depth (inc Remarks:  YDROLO Vetland Hyo Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	GY drology Indicators: eators (minimum of o Water (A1) eter Table (A2) on (A3) arks (B1) et Deposits (B2) cosits (B3) et or Crust (B4) cosits (B5) on Visible on Aerial In		Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I	(B11) vertebrates (E Sulfide Odor on Water Tabl Rhizospheres not tilled) of Reduced Ir Surface (C7)	(C1) e (C2) on Livino on (C4)	g Roots (	Secon	dary Indicate Urface Soil Coarsely Vege rainage Patte xidized Rhizo (where tilled rayfish Burro aturation Visi eomorphic Po	Yes	No ✓  n of two required  ve Surface (B8)  Living Roots (C3)
Type: Do Depth (in: Remarks:  YDROLO Vetland Hyd Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Water-Si	GY drology Indicators: eators (minimum of o Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial Intained Leaves (B9)		Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck	(B11) vertebrates (E Sulfide Odor on Water Tabl Rhizospheres not tilled) of Reduced Ir Surface (C7)	(C1) e (C2) on Livino on (C4)	g Roots (	Secon	dary Indicate urface Soil Coarsely Vege rainage Patte xidized Rhize (where tilled rayfish Burror aturation Visi	Yes	No ✓  n of two required  ve Surface (B8)  Living Roots (C3)
Type: Do Depth (in: Remarks:  YDROLO  Vetland Hyve Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Water-Si	GY drology Indicators: eators (minimum of or	magery (B7)	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck Other (Exp	(B11) vertebrates (E Sulfide Odor on Water Tabl Rhizospheres not tilled) of Reduced Ir Surface (C7) blain in Remai	(C1) e (C2) on Living on (C4) rks)		Secon	dary Indicate Urface Soil Coarsely Vege rainage Patte xidized Rhizo (where tilled rayfish Burro aturation Visi eomorphic Po	Yes	No ✓  n of two required  ve Surface (B8)  Living Roots (C3)
Type: Do Depth (in: Remarks:  YDROLO  Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Water-Si	GY drology Indicators: eators (minimum of or	magery (B7)	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck Other (Exp	(B11) vertebrates (E Sulfide Odor on Water Tabl Rhizospheres not tilled) of Reduced In Surface (C7) olain in Remai	(C1) e (C2) on Living on (C4) rks)		Secon	dary Indicate Urface Soil Coarsely Vege rainage Patte xidized Rhizo (where tilled rayfish Burro aturation Visi eomorphic Po	Yes	No ✓  n of two required  ve Surface (B8)  Living Roots (C3)
Type: Do Depth (inc Remarks:  YDROLO Wetland Hyd Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep	GY drology Indicators: eators (minimum of or Water (A1) ther Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial Intained Leaves (B9) vations: er Present? Yeresent?	magery (B7) es No es No	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where I Presence Thin Muck Other (Exp	(B11) vertebrates (E Sulfide Odor on Water Tabl Rhizospheres not tilled) of Reduced Ir Surface (C7) blain in Remai	(C1) e (C2) on Living on (C4) rks)		Second	dary Indicate urface Soil C parsely Vege rainage Patte xidized Rhizo (where tilled rayfish Burro aturation Visi eomorphic Po AC-Neutral Toost-Heave H	Yes ors (minimum racks (B6) tated Conca erns (B10) ospheres on I) ws (C8) ble on Aeria osition (D2) est (D5) ummocks (D	No ✓  n of two required  ve Surface (B8)  Living Roots (C3)

Remarks:

Project/Site: 130 Environmental Park		City/Cos	<sub>untv:</sub> Lockhai	rt/Caldwell <sub>S:</sub>	ampling Date: 06/21/2013
-				State: TX Si	
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Depression			-		Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: MaB - Mabank loam, 1 to 3 perce				NWI classification	
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrologys					sent? Yes ✓ No
Are Vegetation, Soil, or Hydrology r					
SUMMARY OF FINDINGS - Attach site map					,
Hydrophytic Vegetation Present? Yes N	lo <u> </u>		s the Sampled	Aroa	
Hydric Soil Present? Yes ✓ N	lo		within a Wetlar		No √
Wetland Hydrology Present? Yes ✓ N	lo				
Remarks:					
VEGETATION – Use scientific names of plan	ıts				<del>-</del>
PEOLITATION — 03c 30lentario names of plan		Domin	nant Indicator	Dominance Test workship	eet.
Tree Stratum (Plot size: 30'	% Cover		es? Status	Number of Dominant Spec	
1				That Are OBL, FACW, or F	FAC
2				(excluding FAC-):	(A)
3				Total Number of Dominant	
4				Species Across All Strata:	(B)
Sapling/Shrub Stratum (Plot size: 15' )		= Fotal	Cover	Percent of Dominant Spec That Are OBL, FACW, or F	
1. Prosopis glandulosa	40	Yes	FACU		
2				Prevalence Index worksh	
3.				1	Multiply by:
4					$x = \frac{30}{0}$ $x = \frac{30}{0}$
5			<del></del>		$\times 3 = 30$
Herb Stratum (Plot size: 5' )	40	= Total	Cover		x 4 = 120
1. Eleocharis palustris	30	Yes	OBL	UPL species 30	x 5 = 150
2. Eragrostis hirsuta	30	Yes	FACU	Column Totals: 100	(A) 330 (B)
3. Sporobolus compositus	10	No	UPL	Drawalana (aday —	n/s = 33
4. Iva annua	10	No	FAC	Prevalence Index = Hydrophytic Vegetation I	
5. Solanum elaeagnifolium	_ 20	Yes	NI	1 - Rapid Test for Hyd	
6				2 - Dominance Test is	
7				3 - Prevalence Index i	
8				4 - Morphological Ada	ptations1 (Provide supporting
9					on a separate sheet)
10.	100	= Total	Cover	Problematic Hydrophy	tic Vegetation' (Explain)
Woody Vine Stratum (Plot size: 30' )				<sup>1</sup> Indicators of hydric soil ar be present, unless disturbe	nd wetland hydrology must ed or problematic.
2.				Hydrophytic	
% Bare Ground in Herb Stratum 40			Cover	Vegetation	No <u>√</u>
Remarks:					<del></del>
Spring/shrub on perimeter of depression, left out of	prevalence	e test.			

SOIL Sampling Point: T8-DP3 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features \_\_Type<sup>1</sup> \_\_Loc<sup>2</sup> Color (moist) Color (moist) (inches) Texture % 10 YR 3/1 80 20 0-5 5 YR 5/8 C PL Sandy clay <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ 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) \_\_ Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR F) (LRR H outside of MLRA 72 & 73) 1 cm Muck (A9) (LRR F, G, H) Depleted Matrix (F3) Reduced Vertic (F18) \_\_\_ Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Red Parent Material (TF2) Thick Dark Surface (A12) \_\_\_ Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) \_\_\_ Redox Depressions (F8) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_\_\_ High Plains Depressions (F16) \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Clay Pan Depth (inches): Five Hydric Soil Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) \_ High Water Table (A2) \_\_\_ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_ Saturation (A3) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Pattems (B10) \_\_\_ Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) ✓ Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) ✓ Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_\_ No <a href="#">Yes \_\_\_\_\_</a> Depth (inches): \_\_\_\_\_ Surface Water Present? Yes \_\_\_\_\_ No ✓ \_\_ Depth (inches): \_\_\_\_\_ Water Table Present? Yes \_\_\_\_ No V
Depth (inches): Wetland Hydrology Present? Yes ✓ No Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: 130 Environmental Park		Cify/Co	ounty: Lock	hart/Caldwell	Samplin	a Date: 0	6/21/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX			
Investigator(s): Troegle, Josh & Littleton, Brandyn					oumpling	9 1 01116	
* ' '				ve, convex, none): Conc	ave	Slope	· (9/.): 4-6
Subregion (LRR): J - Southwestern Prairies							
							1470 00
Soil Map Unit Name: Ts - Tinn soils, frequently flooded							
Are climatic / hydrologic conditions on the site typical for the							
Are Vegetation, Soil, or Hydrology				re "Normal Circumstance			No
Are Vegetation, Soil, or Hydrology	naturally pro	blemat	tic? (I	f needed, explain any ans	wers in Rem	arks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling poin	nt locations, transec	ts, impor	tant fea	tures, etc.
Hydrophytic Vegetation Present? Yes ✓	Jo.						<u>-</u>
Hydric Soil Present? Yes ✓ N			Is the Samp		,		
Wetland Hydrology Present? Yes ✓ N			within a We	tland? Yes_ <u>▼</u>	No		
Remarks:					<del></del>		
							_
VEGETATION – Use scientific names of plan	nts.						
Tree Stratum (Plot size: 30'	Absolute % Cover		inant Indicate ies? <u>Status</u>	1	orksheet:	•	
1. Fraxinus pennsylvanica	70	Yes	FAC	Mumber of Dominan That Are OBL, FACN			
2. Ulmus crassifolia	25	Yes	FAC	(excluding FAC-):	, or i Ao	5	(A)
3. Melia azedarach	10	No	FACU	—     Total Number of Dor	minant		
4.				Species Across All S		5	(B)
	105	= Tota	l Cover	Percent of Dominan	t Species		
Sapling/Shrub Stratum (Plot size: 15' )		•		That Are OBL, FAC		100	(A/B)
1. Carya illinoinensis	_ 10	No	FAC	Prevalence Index w	vorkehooti		
2. Celtis laevigata	- <sup>30</sup> / <sub>5</sub>	Yes	FAC	Total % Cover of		Multiply I	nv:
3. Rhus copallinum	- <del>3</del>	No No		OBL species			
4. Ulmus americana				FACW species			
5	55		I Cover	FAC species			
Herb Stratum (Plot size: 30'		= rota	ii Cover	FACU species			
1. Persicaria hydropiper	20	No	OBL	UPL species	x :	5 =	
2. Cyperus polystachyos	20	No	FACW	Column Totals:	(A)		(B)
3. Chasmanthium latifolium	_ 5	No	FACU	Provintence In-	lou = D/A =		
4. Ambrosia trifida	80	Yes	FAC	Prevalence Inc			<u>·</u>
5. Iva annua	60	Yes	FAC	1 - Rapid Test fo			O.D.
6							UII
7				3 - Prevalence I			
8	_			4 - Morphologic			e supporting
9				— data in Rema	arks or on a s	separate si	neet)
10				— Problematic Hyd	drophytic Veç	getation <sup>1</sup> (E	Explain)
Woody Vine Stratum (Plot size: 30')	103	= Tota	ıl Cover	<sup>1</sup> Indicators of hydric	soil and wetl	and hydrol	oav must
1				be present, unless d	isturbed or p	roblematic	
2.				Hydrophytic			••••
			I Cover	Vegetation	/		
% Bare Ground in Herb Stratum 50				Present?	Yes <u>√</u>	No	
Remarks:							
Tree and saplings/shrub on perimeter at slough.							

1	ription: (Describ	e to the de	oth needed to docur	nent the	indicator	or confin	m the absence of in	dicators.)
Depth	Matrix			x Feature	es1	. 2		
(inches) 0-8	Color (moist) 10 YR 2/1	<u>%</u> 85	Color (moist) 5 YR 5/8	<u>%</u> 15	_Type <sup>1</sup> C	Loc <sup>2</sup>	<u>Texture</u> Clay	Remarks
8-15	10 YR 2/1	<del>05</del>	10 YR 5/1					
6-15	10 YR 2/1			15	- <u>D</u>	<u>M</u>	Clay	
			5 YR 5/8	10	_ <u>C</u>	М		
	_							***************************************
			-			-		
			_					
1Type: C=Cc	ancentration D=D	anletion PM	I=Reduced Matrix, CS	-Covore	d or Coofe	nd Sond C	Croins 2 continu	Displace timing Manageria
			I LRRs, unless other			o Sano G		Problematic Hydric Soils <sup>3</sup> :
Histosol			·		atrix (S4)			(A9) (LRR I, J)
Histic Ep	pipedon (A2)			Redox (S				e Redox (A16) (LRR F, G, H)
Black His				l Matrix (				e (S7) (LRR G)
1	n Sulfide (A4)	. =\			neral (F1)			Depressions (F16)
	l Layers (A5) (LRF ck (A9) (LRR F, G			∋ieyed iv d Matrix (	latrix (F2)		(LRR H (	outside of MLRA 72 & 73)
I —	Below Dark Surfa		✓ Redox E					Material (TF2)
	ırk Surface (A12)	, ,	✓ Deplete	d Dark S	urface (F7)	)		w Dark Surface (TF12)
	lucky Mineral (S1)			Depressio				ain in Remarks)
. —	lucky Peat or Pea	. , ,			essions (F	-		drophytic vegetation and
5 cm Mu	cky Peat or Peat (	53) (LKK F)	) (ML	KA 12 &	73 of LRR	( <b>H</b> )		rology must be present, rbed or problematic.
Restrictive L	.ayer (if present):			· · · · · · · · · · · · · · · · · · ·			111003 01310	The distributed of problematic.
Туре:								
Depth (inc	hes):						Hydric Soil Pres	ent? Yes <u>√</u> No
Remarks:								
HYDROLOG	GY	<del></del>					· · · · · · · · · · · · · · · · · · ·	
	Irology Indicators	<u> </u>						
			d; check all that apply	/)			Secondary Ind	dicators (minimum of two required)
	Water (A1)		Salt Crust	_				Boil Cracks (B6)
ı —	ter Table (A2)		Aquatic Inv		es (B13)			Vegetated Concave Surface (B8)
Saturatio			Hydrogen				,	Patterns (B10)
Water Ma	arks (B1)		Dry-Seaso	n Water	Table (C2)		Oxidized	Rhizospheres on Living Roots (C3)
Sedimen	t Deposits (B2)		Oxidized R			ing Roots	(C3) (where	tilled)
'	osits (B3)		(where r		,		Crayfish [	, ,
-	t or Crust (B4)		Presence of		-	1)	_	n Visible on Aerial Imagery (C9)
Iron Depo	• •	Limaconi (D	Thin Muck				,	hic Position (D2)
	on Visible on Aeria ained Leaves (B9)		7) Other (Exp	iain in re	emarks)		<del>-</del> -	tral Test (D5) ave Hummocks (D7) ( <b>LRR F</b> )
Field Observ	` '						11051-1105	ave Hummocks (D7) (LRR F)
Surface Wate		Yes	No ✓ Depth (inc	:hes):				
Water Table F	Present?	Yes	No / Depth (inc	hes):		_		
Saturation Pro			No ✓ Depth (inc				land Hydrology Pre	sent? Yes <u>/ No No </u>
(includes capi	illary fringe)							103 100
Describe Rec	orded Data (strea	m gauge, m	onitoring well, aerial p	hotos, p	revious ins	pections),	, if available:	
Remarks:								

Project/Site: 130 Environmental Park		City/County	<sub>y:</sub> Lockha	rt/Caldwell	_ Sampling Date: 06/21/2013
Applicant/Owner: 130 Environmental Park, LLC					_ Sampling Point: T8-DP5
Investigator(s): Troegle, Josh & Littleton, Brandy					
- ,			-		ve Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies					· · · · · · · · · · · · · · · · · · ·
Soil Map Unit Name: Ts - Tinn soils, frequently floods				NWI classifi	
Are climatic / hydrologic conditions on the site typical for t		ar? Yes <b>√</b>			
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ	
SUMMARY OF FINDINGS – Attach site ma					·
Hydrophytic Vegetation Present? Yes ✓	No	1.4			
Hydric Soil Present? Yes <u>✓</u>	No	1	he Sampled hin a Wetlar		No
Wetland Hydrology Present? Yes ✓		Witi	illi a Wellai	nd? res <u>→</u>	NO
Remarks:					
VEGETATION – Use scientific names of pla	ants.				
Tree Stratum (Plot size: 30' )	Absolute		t Indicator	Dominance Test wor	ksheet:
<u>Tree Stratum</u> (Plot size: 30' )  1. Fraxinus pennsylvanica	% Cover 85	Species? Yes	FAC	Number of Dominant S That Are OBL, FACW,	
2. Ulmus crassifolia	10	No	FAC	(excluding FAC-):	5 (A)
3				Total Number of Domi	(nont
4			•	Species Across All Str	^
	95	= Total Co	ver	Percent of Dominant S	2nasias
Sapling/Shrub Stratum (Plot size: 15' )				That Are OBL, FACW,	
1. Ulmus crassifolia		Yes	FAC	Prevalence Index wo	rkahaati
2. Fraxinus pennsylvanica		Yes	FAC		Multiply by:
3			- ——		x1 =
5					x 2 =
5	70	= Total Co	- ———		x 3 =
Herb Stratum (Plot size: 15'		- 10(6) 00	VC1	FACU species	x 4 =
1. Ambrosia trifida	50	Yes	FAC		x 5 =
2				Column Totals:	(A) (B)
3			<del></del>	Prevalence Inde	x = B/A =
4				Hydrophytic Vegetati	
5				, , , , , , , , , , , , , , , , , , , ,	Hydrophytic Vegetation
6				✓ 2 - Dominance Te	
7				3 - Prevalence Inc	
8			- —	4 - Morphological	Adaptations <sup>1</sup> (Provide supporting
9		-			ks or on a separate sheet)
10.		= Total Co	· ———	Problematic Hydro	ophytic Vegetation <sup>1</sup> (Exptain)
Woody Vine Stratum (Plot size: 30' )		- 10.01.00	VCI		oil and wetland hydrology must
1. Smilax rotundifolia	30	Yes	FAC	be present, unless dist	turbed or problematic.
2. Toxicodendron radicans		Yes	FACU	Hydrophytic	
% Bare Ground in Herb Stratum 95	50	= Total Co	ver	Vegetation Present? You	es No
Remarks:				, I	
Trees on perimeter of depression.					

SOIL Sampling Point: T8-DP5 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> Texture % 0 - 1210 YR 2/1 90 10 YR 5/8 10 Clay <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: \_\_\_ 1 cm Muck (A9) (LRR I, J) Histosol (A1) Sandy Gleyed Matrix (S4) \_\_\_ Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) \_\_\_ Black Histic (A3) Stripped Matrix (S6) \_ Dark Surface (S7) (LRR G) \_\_\_ Hydrogen Sulfide (A4) \_\_\_ Loamy Mucky Mineral (F1) High Plains Depressions (F16) \_\_\_ Stratified Layers (A5) (LRR F) Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) \_\_\_ 1 cm Muck (A9) (LRR F, G, H) \_\_\_ Depleted Matrix (F3) Reduced Vertic (F18) \_\_ Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Red Parent Material (TF2) ✓ Depleted Dark Surface (F7) Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) \_\_\_ Sandy Mucky Mineral (S1) \_\_\_ Redox Depressions (F8) Other (Explain in Remarks) \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) <sup>3</sup>Indicators of hydrophytic vegetation and \_\_\_ High Plains Depressions (F16) \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): Hydric Soil Present? Yes ✓ Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) \_\_\_ Surface Water (A1) \_\_ Salt Crust (B11) ✓ Surface Soil Cracks (B6) \_\_\_ High Water Table (A2) \_\_\_ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_ Saturation (A3) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) \_\_\_ Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) ✓ Drift Deposits (B3) (where not tilled) \_\_\_ Craytish Burrows (C8) \_\_\_ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) ✓ Geomorphic Position (D2) Iron Deposits (B5) \_\_\_ Thin Muck Surface (C7) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_\_ No ✓ Depth (inches): \_\_\_ Surface Water Present? Yes \_\_\_\_\_ No <u>√</u>\_\_ Depth (inches): \_\_\_\_\_\_ Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_\_ Wetland Hydrology Present? Yes ✓ \_\_\_ No Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



Data Point 1
Post Oak Woods



Data Point 1 Post Oak Woods



Data Point 2 Cedar Elm Woods



Data Point 3 Sumpweed Depressions



Data Point 4
Forested Wetlands



Data Point 5
Forested Wetlands

Project/Site: 130 Environmental Park		Citv/Cou	<sub>intv:</sub> Lockhai	rt/Caldwell	Sampling Date: _06/20/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T9-DP1
Investigator(s): Troegle, Josh & Littleton, Brandyn					outinping route
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 th	-				,
Are Vegetation, Soil, or Hydrology					oresent? Yes 🗹 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	samp	ling point l	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes <u>√</u>	Jo.				
Hydric Soil Present? Yes N	10 <del>/</del>		s the Sampled		/
Wetland Hydrology Present? Yes N	10 √	\ W	vithin a Wetlar	nd? Yes	No <u>√</u>
Remarks:					<del></del>
VEGETATION – Use scientific names of plan					
VEGETATION – Ose scientific frames of piar	Absolute	Domin	ant Indicator	Dominance Test work	shoot:
Tree Stratum (Plot size: 30'			s? Status	Number of Dominant Sp	
1. Quercus stellata	75	Yes	FACU	That Are OBL, FACW, o	or FAC
2. Ulmus crassifolia	_ 25	Yes	FAC	(excluding FAC-):	<u>4</u> (A)
3				Total Number of Domina	7
4				Species Across All Stra	ta: <u>/</u> (B)
Sapling/Shrub Stratum (Plot size: 15'	100	= Total	Cover	Percent of Dominant Sp	
1. Ulmus crassifolia	20	Yes	FAC	That Are OBL, FACW, o	or FAC: <u>57</u> (A/B)
2. Mahonia trifoliolata	40	Yes	NI NI	Prevalence Index work	ksheet:
3. Diospyros texana	15	No	NI NI	Total % Cover of:	Multiply_by:
4. Ilex vomitoria	20	Yes	FAC	OBL species	x1=
5.					x 2 =
	95	= Total	Cover	I .	x 3 =
Herb Stratum (Plot size: 5'	10	3.7	3.77		x 4 =
1. Opuntia engelmannii	10	No	NI NI	UPL species	x 5 =
2. Nassella leucotricha		Yes	NI	Column Totals:	(A) (B)
3				Prevalence Index	= B/A =
4				Hydrophytic Vegetatio	
5				1 - Rapid Test for H	lydrophytic Vegetation
6				✓ 2 - Dominance Test	
7 8				3 - Prevalence Inde	ex is ≤3,0 <sup>1</sup>
9				4 - Morphological A	daptations <sup>1</sup> (Provide supporting
10					or on a separate sheet)
	70	= Total	Cover		phytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30'				<sup>1</sup> Indicators of hydric soil be present, unless distu	and wetland hydrology must
1. Smilax rotundifolia	_ 30	Yes	FAC	be present, unless distu	Tiped or problematic.
2				Hydrophytic	
% Bare Ground in Herb Stratum 60	30	= Total	Cover	Vegetation Present? Yes	s <u>√</u> No
Remarks:					

Depth	Matrix		Redo	x Features	3						
(inches)	Color (moist)	%C	olor (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks			
0-4	10 YR 5/4	100					Sandy clay				
<sup>1</sup> Type: C=Cd	oncentration, D=Dep	letion, RM=Redu	uced Matrix, CS	=Covered	or Coate	d Sand Gr	rains. <sup>2</sup> Location:	PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators: (Applic	able to all LRRs	, unless other	wise note	ed.)			oblematic Hydric Soils <sup>3</sup> :			
Histosol	(A1)		Sandy G	eleyed Ma	trix (S4)		1 cm Muck (A	49) ( <b>LRR I, J</b> )			
Histic Ep	pipedon (A2)		Sandy F	Redox (S5)	)		Coast Prairie	Redox (A16) (LRR F, G, H)			
Black Hi	stic (A3)		Stripped	l Matrix (S	6)		Dark Surface	e(S7) (LRR G)			
Hydroge	n Sulfide (A4)			ducky Min			High Plains Depressions (F16)				
_	l Layers (A5) ( <b>LRR F</b>	•	-	Gleyed Ma			(LRR H o	utside of MLRA 72 & 73)			
	ck (A9) ( <b>LRR F, G,</b> I	•		d Matrix (F	,		Reduced Ver	• • •			
	d Below Dark Surfac	e (A11)	_	ark Surfa	. ,		Red Parent Material (TF2)				
	irk Surface (A12)			d Dark Sui	. ,			Dark Surface (TF12)			
	lucky Mineral (S1)		_	epressior	, ,			in in Remarks)			
_	lucky Peat or Peat (			ins Depre			•	rophytic vegetation and			
5 cm Mu	cky Peat or Peat (S	3) ( <b>LRR F</b> )	(MLI	RA 72 & 7	3 of LRR	H)		plogy must be present,			
	(1.6						unless disturb	bed or problematic.			
	.ayer (if present):										
Type: <u>Co</u>											
Depth (inc	hes): Four						Hydric Soil Prese	ent? Yes No <u>√</u>			
Remarks:											
	· · · · · · ·										
HYDROLO	GY										
Wetland Hye	Irology Indicators:						<u>.</u>				

III DROLOGI			
Wetland Hydrology Indica	tors:		
Primary Indicators (minimur	n of one require	ed; check all that apply)	Secondary Indicators (minimum of two required)
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 (C^ Dry-Season Water Table (G Oxidized Rhizospheres on	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) C2) C3 Dvidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Water-Stained Leaves		crist (2.platt iii remaine	Frost-Heave Hummocks (D7) (LRR F)
Field Observations:	`		
Surface Water Present? Water Table Present?		No Depth (inches): No Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes	No Depth (inches):	Wetland Hydrology Present? Yes No ✓
Describe Recorded Data (si Remarks:	ream gauge, m	onitoring well, aerial photos, previous	inspections), if available:

Project/Site: 130 Environmental Park	ounty: Lockha	Lockhart/Caldwell Sampling Date: 06/20/20				
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T9-DP2	
Investigator(s): Troegle, Josh & Littleton, Brandy						
Landform (hillslope, terrace, etc.): Toe of hillslope			•			
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: HeC2 - Heiden clay, 3 to 5 perc						
Are climatic / hydrologic conditions on the site typical for t						
Are Vegetation, Soil, or Hydrology					"present? Yes 🗸 No	
Are Vegetation, Soil, or Hydrology	_ naturally pro	obiemat	tic? (If n	eeded, explain any ansv	vers in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	p showing	sam	pling point	locations, transec	ts, important features, etc.	
Hydrophytic Vegetation Present? Yes <u>√</u>	No					
Hydric Soil Present? Yes ✓			Is the Sample			
	No		within a Wetla	ind? Yes <u>*</u>	No	
Remarks:		1				
VEGETATION – Use scientific names of pla	inte					
TEGETATION — Use scientific flames of pie	Absolute	Domi	inant Indicator	Dominance Test wo	eleo ho ote	
Tree Stratum (Plot size: 30'			ies? Status	Number of Dominant		
1. Ulmus crassifolia	40	Yes	FAC	That Are OBL, FACM	, or FAC	
2. Prosopis glandulosa	40	Yes	FACU	(excluding FAC-):	<u>5</u> (A)	
3				Total Number of Dom	inant	
4				Species Across All St	rata: <u>7</u> (B)	
	80	= Tota	I Cover	Percent of Dominant	Species	
Sapling/Shrub Stratum (Plot size: 15')	40	1.	E. CH	That Are OBL, FACW		
1. Prosopis glandulosa		Yes	FACU	Prevalence Index we	nrkshoot:	
2. Ulmus crassifolia		Yes	FAC		: Multiply by:	
3. Crataegus spathulata		Yes	FAC		x 1 =	
4				•	x 2 =	
5	70				x 3 =	
Herb Stratum (Plot size: 5'		= lota	I Cover		x 4 =	
1. Iva annua	80	Yes	FAC		x 5 =	
2. Ambrosia trifida	10	No	FAC		(A) (B)	
3. Opuntia engelmannii	5	No	NI			
4. Eleocharis palustris	60	Yes	OBL		ex = B/A =	
5. Cyperus polystachyos	30	No	FACW	Hydrophytic Vegeta		
6. Ambrosia artemisiifolia	10	No	FACU	f	Hydrophytic Vegetation	
7. Avena fatua	5	No	NI	✓ 2 - Dominance To		
8. Carex brevior	15	No	FAC	3 - Prevalence In		
9. Carex bulbostylis		No	FACW	data in Remai	Adaptations <sup>1</sup> (Provide supporting ks or on a separate sheet)	
10					ophytic Vegetation <sup>1</sup> (Explain)	
30'	225	= Tota	I Cover	1 Indicators of budge a		
Woody Vine Stratum (Plot size: 30'					oil and wetland hydrology must sturbed or problematic.	
1						
2			l Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 10		_ rota	ii Cover	Present? Y	'es <u>√</u> No	
Remarks:					· · · · · · · · · · · · · · · · · · ·	

SOIL Sampling Point: T9-DP2

Profile Descr	ription: (Describe	to the de	pth needed to docu	ıment the	indicator	or confir	m the absence of in	dicators.)
Depth	Matrix			ox Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup> _	Loc <sup>2</sup>	Texture	Remarks
0-4	10 YR 3/1	80	5 YR 4/6	_ 15	_ <u>C</u>	M/PL	Sandy/Clay	
		_	10 YR 6/1	_ 5	_ D	M/PL		
4-10	10 YR 4/1	60	5 YR 4/6	20	С	M/PL	Sandy/Clay	· ·
			10 YR 6/1	20		M/PL		*****
								<del></del>
		_						_
¹Type: C=Cor	ncentration D=De	oletion RM	1=Reduced Matrix, C	S=Covere	ed or Coati	ed Sand G	irains <sup>2</sup> Location	: PL=Pore Lining, M=Matrix.
			I LRRs, unless other			ed Odina O		Problematic Hydric Soils <sup>3</sup> :
Histoso! (					latrix (S4)			(A9) (LRR I, J)
. —	pedon (A2)			Redox (S				e Redox (A16) (LRR F, G, H)
Black His				ed Matrix (				e (S7) (LRR G)
Hydrogen	Sulfide (A4)		Loamy	Mucky M	ineral (F1)		High Plains	Depressions (F16)
	Layers (A5) ( <b>LRR</b>				1atrix (F2)			outside of MLRA 72 & 73)
1 —	k (A9) ( <b>LRR F, G,</b>	•	✓ Deplet				Reduced Ve	
	Below Dark Surface	e (A11)	✓ Redox			`		Material (TF2)
	k Surface (A12) ucky Mineral (S1)			Depressio	urface (F7	)		w Dark Surface (TF12) ain in Remarks)
	ucky Peat or Peat	(S2) ( <b>LRR</b>			ressions (F	16)		drophytic vegetation and
	ky Peat or Peat (S				73 of LRF			rology must be present,
_	`		,			,		rbed or problematic.
	ayer (if present):							
Type: Clay	/ рап							
Depth (inch	nes): Ten						Hydric Soil Pres	ent? Yes ✓ No
Remarks:		•						
1								
HYDROLOG	SY .							
Wetland Hydr	rology Indicators:						<del></del>	
Primary Indica	ators (minimum of a	ne require	ed; check all that app	ıly)			Secondary Inc	dicators (minimum of two required)
Surface W	Vater (A1)		Salt Crus	t (B11)				Soil Cracks (B6)
High Wate	er Table (A2)		Aquatic Ir	vertebrate	es (B13)			Vegetated Concave Surface (B8)
Saturation	n (A3)		Hydrogen	Sulfide C	dor (C1)			Patterns (B10)
Water Mai	rks (B1)		Dry-Seas	on Water	Table (C2)	)	-	Rhizospheres on Living Roots (C3)
Sediment	Deposits (B2)		✓ Oxidized	Rhizosphe	eres on Liv	ing Roots		
Drift Depo	sits (B3)		(where	not tilled	)		Crayfish E	Burrows (C8)
Algal Mat	or Crust (B4)		Presence	of Reduc	ed Iron (C	4)		n Visible on <b>A</b> erial Imagery (C9)
Iron Depo	sits (B5)		Thin Muc	k Surface	(C7)			hic Position (D2)
Inundation	n Visible on Aerial	lmagery (B	7) Other (Ex	plain in R	emarks)		FAC-Neu	tral Test (D5)
Water-Sta	ined Leaves (B9)						Frost-Hea	ave Hummocks (D7) (LRR F)
Field Observa	ations:						•,	
Surface Water	Present? Y	'es	No ✓ Depth (ir	nches):		_		
Water Table P			No V Depth (ir					
Saturation Pre			No V Depth (ir	,			and Hydrology Pres	sent? Yes <u>√</u> No
(includes capill	lary fringe)							
Describe Reco	orded Data (stream	gauge, m	onitoring well, aerial	photos, p	revious ins	spections),	if available:	
								· · · · · · · · · · · · · · · · · · ·
Remarks:								
Remarks:								
Remarks:								

Project/Site: 130 Environmental Park		City/Cou	<sub>inty:</sub> Lockhai	rt/Caldwell	Sampling Date: 06/20/2013
Applicant/Owner: 130 Environmental Park, LLC		State: TX Sampling Point: T9-DP3			
Investigator(s): Troegle, Josh & Littleton, Brandy		1 3			
Landform (hillslope, terrace, etc.): Floodplain			•		/e Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: Ts - Tinn soils, frequently floods				NWI classific	
Are climatic / hydrologic conditions on the site typical for t					
Are Vegetation, Soil, or Hydrology	significantly	disturbed	d? Are "	'Normal Circumstances"	oresent? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe	
SUMMARY OF FINDINGS - Attach site ma					,
Hydrophytic Vegetation Present?  Yes   ✓  Hydric Soil Present?  Yes		Is	the Sampled		
	No	W	ithin a Wetlar	nd? Yes <u>▼</u>	No
Remarks:					<del></del>
VEGETATION – Use scientific names of pla					
Tree Stratum (Plot size: 30')	Absolute % Cover		ant Indicator s? <u>Status</u>	Dominance Test work	
1. Quercus stellata	10	No	FACU	Number of Dominant S That Are OBL, FACW,	
2. Celtis laevigata	10	No	FAC	(excluding FAC-):	<u>5</u> (A)
3. Quercus virginiana	25	Yes	FACU	Total Number of Domir	nant
4. Ulmus crassifolia	10	No	FAC	Species Across All Stra	₩ <b>7</b>
1.50	55	= Total	Cover	Percent of Dominant S	pecies
Sapling/Shrub Stratum (Plot size: 15'	40	1/	EAG	That Are OBL, FACW,	
1. Ulmus crassifolia	10	Yes Yes	FACU FACU	Prevalence Index wor	ksheet:
2. Prosopis glandulosa		res	- FACU		Multiply by:
3					x 1 =
5.				FACW species	x 2 =
0	60	= Total	Cover	FAC species	x 3 =
Herb Stratum (Plot size: 51 )		- Total (	00761	FACU species	x 4 =
1. Ambrosia trifida	40	Yes	FAC		x 5 =
2. Iva annua		Yes	FAC	Column Totals:	(A) (B)
3. Setaria parviflora	40	Yes	FAC FAC	Prevalence Index	: = B/A =
4. Elymus virginicus 5. Carex brevior	$-\frac{10}{30}$	No	FAC FAC	Hydrophytic Vegetation	
		No	- FAC	1 - Rapid Test for I	
6				✓ 2 - Dominance Tes	
7				3 - Prevalence Ind	ex is ≤3,0 <sup>1</sup>
8				4 - Morphological /	Adaptations <sup>1</sup> (Provide supporting
10.					s or on a separate sheet)
10.		= Total	Cover	Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'					il and wetland hydrology must
1. Smilax rotundifolia		Yes	FAC FAC	be present, unless dist	urbed or problematic.
2				Hydrophytic	
% Bare Ground in Herb Stratum 40	20	= Total	Cover	Vegetation Ye	sNo
Remarks:				1	

SOIL Sampling Point: T9-DP3

Profile Des	cription: (Describe	to the dept	h needed to docu	ment the	indicator	or confirm	n the absence of indi	cators.)
Depth	Matrix			x Feature	es			
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10 YR 4/1	_ 70	10 YR 6/4	30	<u> </u>	M/PL	Sandy clay	
2-6	10 YR 3/1	80	10 YR 6/4	20	_ <u>C</u>	M/PL	Sandy clay	
				_				
l ———								
¹Type: C=C	oncentration, D=De	_ —— - oletion RM≃l	Reduced Matrix, CS	S=Covere	d or Coate	ed Sand G	rains <sup>2</sup> l ocation:	PL=Pore Lining, M=Matrix.
· · · · · · · · · · · · · · · · · · ·	Indicators: (Applic					od odna o		bblematic Hydric Soils <sup>3</sup> :
Histosol	•				atrix (S4)		1 cm Muck (A	•
	pipedon (A2)			Redox (S				Redox (A16) ( <b>LRR F, G, H</b> )
	stic (A3)		Stripped	d Matrix (	S6)			(S7) (LRR G)
	en Sulfide (A4)				neral (F1)			epressions (F16)
I —	d Layers (A5) (LRR				latrix (F2)			itside of MLRA 72 & 73)
	ick (A9) ( <b>LRR F, G,</b>		✓ Deplete				Reduced Vert	. 2
	d Below Dark Surfac ark Surface (A12)	æ (ATT)	✓ Redox I		ace (F6) urface (F7	١	Red Parent M	aterial (TF2) Dark Surface (TF12)
	fucky Mineral (S1)			Depressio	,	,	Other (Explain	, ,
	Mucky Peat or Peat	(S2) ( <b>LRR G</b>			essions (F	16)		ophytic vegetation and
	icky Peat or Peat (S		. — -	,	73 of LRF	,		logy must be present,
							unless disturb	ed or problematic.
	Layer (if present):							
Type: Co								
Depth (inc	ches): <u>Six</u>		<del></del>				Hydric Soil Preser	nt? Yes <u>√</u> No
Remarks:								
HYDROLO	CV							<del>-</del>
			<del> </del>					
	drology Indicators:		-1111 4l41				0 1 1 1	
	cators (minimum of c	<u>one requirea;</u>				-		cators (minimum of two required)
_	Water (A1)		Salt Crust	'	(D40)			il Cracks (B6)
— "	iter Table (A2)		Aquatic In		, ,		,	egetated Concave Surface (B8)
Saturatio			Hydrogen		, ,		✓ Drainage P	
	arks (B1) nt Deposits (B2)		Dry-Seaso Oxidized F					hizospheres on Living Roots (C3)
l —	oosits (B3)			not tilled		ing Roots	(C3) (where ti	'
į —	nt or Crust (B4)		Presence			1)		Visible on Aerial Imagery (C9)
	osits (B5)		Thin Muck		•	*)	✓ Geomorphi	
	on Visible on Aerial	Imagery (B7)					FAC-Neutra	' '
_	tained Leaves (B9)	iiilagery (Dr.)	01101 (Exp	71 <b>2111</b> 111 100	ziliaiks)			e Hummocks (D7) ( <b>LRR F</b> )
Field Observ								e ridiiiilocks (D7) (ERRT)
Surface Wate		'es N	o 🗸 Depth (in	ches).				
Water Table			o <u>✓</u> Depth (ind					
			o <u>√</u> Depth (in	,			and Hudrology Been	ent? Yes ✓ No
Saturation Pr (includes cap		CS IV	o_• Deptit (Int	ы ies). <u>—</u>		-   weti	and nyurology Frese	mtr 1e5 <u>*</u> No
	corded Data (stream	gauge, mor	itoring well, aerial ¡	ohotos, pi	revious ins	pections),	if available:	·
Remarks:								
								_

Project/Site: 130 Environmental Park		City/Coun	<sub>itv:</sub> Lockhai	rt/Caldwell	Sampling Date: 06/20/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T9-DP4
Investigator(s): Troegle, Josh & Littleton, Brandyn					odinpinig r oliti.
Landform (hillslope, terrace, etc.): Floodplain				-	Slana (9/1): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: Ts - Tinn soils, frequently flooded					
				NWI classifica	
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology s				'Normal Circumstances" pi	resent? Yes ✓ No
Are Vegetation, Soil, or Hydrology n	aturally pro	blematic?	? (If ne	eded, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	sampli	ing point k	ocations, transects,	important features, etc.
Understatic Variation Presents					·
Hydrophytic Vegetation Present? Yes ✓ N Hydric Soil Present? Yes ✓ N	o		the Sampled		,
		wi	thin a Wetlar	nd? Yes	No <u>√</u>
Remarks:					
All FAC vegetation, no morphological adaptations.	Hydrology	indicator	s were more	e indicative of recent hig	gh flow event rather than
prolong inundation. Not a wetland, riparian terrace.					
				-	
VEGETATION – Use scientific names of plan		··-	<del></del>	Y =	
Tree Stratum (Plot size: 30'	Absolute % Cover		nt Indicator ? <u>Status</u>	Dominance Test works	
1. Quercus virginia	80	Yes	FACU	Number of Dominant Sp That Are OBL, FACW, o	
2. Celtis laevigata	60	Yes	FAC	(excluding FAC-):	<u>4</u> (A)
3			_	Total Number of Domina	ant
4				Species Across All Strat	a: <u>5</u> (B)
15!	140	= Total C	over	Percent of Dominant Sp	ecies
Sapling/Shrub Stratum (Plot size: 15'	60	Yes	FAC	That Are OBL, FACW, o	r FAC: <u>80</u> (A/B)
1. Ulmus crassifolia 2. Celtis laevigata	15	No	FAC	Prevalence Index work	sheet:
3. Ilex vomitoria	10	No	FAC	Total % Cover of:	Multiply by:
	· <del></del>	110			x 1 =
5			<del></del>		x 2 =
	85	= Total C	over	FAC species	x 3 =
Herb Stratum (Plot size: 5'		rotar o	0.0.		x 4 =
1. Ambrosia trifida	10	Yes	FAC	UPL species	x 5 =
2				Column Totals:	(A) (B)
3,				Prevalence Index	= B/A =
4				Hydrophytic Vegetation	
5				1 - Rapid Test for H	
6.				✓ 2 - Dominance Test	· · ·
7				3 - Prevalence Inde:	x îs ≤3.0 <sup>1</sup>
8				4 - Morphological Ad	daptations <sup>1</sup> (Provide supporting
9					or on a separate sheet)
10		= Total C	ovor	Problematic Hydrop	hytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'		- Total C	Ovei	<sup>1</sup> Indicators of hydric soil	and wettand hydrology must
1. Smilax rotundifolia	40	Yes	FAC	be present, unless distur	bed or problematic.
2				Hydrophytic	
80	40	= Total C	over	Vegetation Present? Yes	✓ No
% Bare Ground in Herb Stratum 80				11030111: 185	
rollding.					

SOIL Sampling Point: T9-DP4 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> Texture (inches) 10 YR 2/1 80 10 YR 6/2 20 0-12 D M Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains, <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ 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) \_\_\_ Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) High Plains Depressions (F16) \_\_\_ Stratified Layers (A5) (LRR F) Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) \_\_\_ Depleted Matrix (F3) 1 cm Muck (A9) (LRR F, G, H) Reduced Vertic (F18) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Red Parent Material (TF2) ✓ Depleted Dark Surface (F7) \_\_\_ Very Shallow Dark Surface (TF12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) \_\_\_ Redox Depressions (F8) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) — High Plains Depressions (F16) 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): \_ Hydric Soil Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) \_\_\_ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) ✓ Drainage Patterns (B10) \_\_\_ Saturation (A3) Hydrogen Sulfide Odor (C1) \_\_\_ Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) ✓ Drift Deposits (B3) (where not tilled) \_\_\_ Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) \_\_\_ Iron Deposits (B5) Geomorphic Position (D2) Thin Muck Surface (C7) \_\_\_ Inundation Visible on Aerial Imagery (B7) \_\_\_ Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_\_ No ✓ Depth (inches): \_\_\_\_ Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_\_ Water Table Present? Yes \_\_\_\_\_ No ✓ Depth (inches): \_\_\_\_\_ Saturation Present? Wetland Hydrology Present? Yes ✓ No

(includes capillary fringe)

Remarks:

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

Hydrology indicators observed were indicative of recent high flow event, not inundation.

Project/Site: 130 Environmental Park		City/County	,: Lockha	rt/Caldwell	Sampling Date: 06/20/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T9-DP5
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Fringe Wetland			-		3 Slone (%): 5-8
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: HeC2 - Heiden clay, 3 to 5 percen					
•					
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology si					resent? Yes ✓ No
Are Vegetation, Soil, or Hydrology na	aturally pro	blematic?	(If ne	eeded, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	showing	samplin	g point l	ocations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No.					
Hydric Soil Present? Yes ✓ No.	`		ne Sampled		
Wetland Hydrology Present? Yes ✓ No.		with	nin a Wetlar	nd? Yes <u>▼</u>	No
Remarks:					<del></del>
VEGETATION – Use scientific names of plant				The second second	· · ·
Tree Stratum (Plot size: 15'	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test works	
1				Number of Dominant Sp That Are OBL, FACW, o	ecies or FAC
2				(excluding FAC-):	<u>3</u> (A)
3.				Total Number of Domina	ant
4.				Species Across All Strat	
		≃ Total Co	ver	Percent of Dominant Sp	ecles
Sapling/Shrub Stratum (Plot size: 15' )				That Are OBL, FACW, o	
1. Ulmus crassifolia	5	Yes Yes	FAC NI	Prevalence Index work	sheet
2. Diospyros texana			NI		Multiply by:
3					x 1 =
4					x 2 =
5	10	= Total Co			x 3 =
Herb Stratum (Plot size: 5'		= Total Co	ver		x 4 =
1. Cyperus polystachyos	60	Yes	FACW	UPL species	x 5 =
2. Iva annua	30	No	FAC	Column Totals:	(A) (B)
3. Phyla lanceolata	10	No	FACW	Provolence Index	- D/A =
4. Persicaria hydropiper	25	No No	OBL	Hydrophytic Vegetation	= B/A =
5. Eleocharis compressa	10	No	FACW		ydrophylic Vegetation
6. Sesbania drummondii	25	No No	FACW	✓ 2 - Dominance Test	
7. Carex brevior	40	No No	FAC	3 - Prevalence Inde	
8. Phanopyrum gymnocarpon	10	No No	OBL	I —	daptations <sup>1</sup> (Provide supporting
9			·	data in Remarks	or on a separate sheet)
10	710			Problematic Hydrop	hytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'	210	= Total Co	ver	<sup>1</sup> Indicators of hydric soil	and wetland hydrology must
1. Smilax rotundifolia	10	Yes	FAC	be present, unless distu	
2				Hydrophytic	·
	10	= Total Co	ver	Vegetation	
% Bare Ground in Herb Stratum				Present? Yes	No
Remarks:					
					· · · · · · · · · · · · · · · · · · ·

1		to the de				or confi	rm the absence of ind	icators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	dox Feature %	es Type¹	Loc2	- Texture	Remarks
0-1	10 YR 6/4	60	10 YR 6/1	15	D	M	Sandy clay	Kemana
		-	10 YR 6/8			М		
1-12	5 GY-6	60	10 YR 6/8			-	- Clav	
1-12	3 61-0	- 60		30	- <u>C</u>	<u>M</u>	_ Clay	
			5 YR 4/6	10	<u> </u>	<u> M</u>		
1Tune: C=C	oncentration, D=Dep	aletion RM	t-Reduced Matrix (	— ——— CS=Coverc	d or Cost	nd Sand /	Grains <sup>2</sup> Location:	DI = Dovo Lining M = Matrix
	Indicators: (Applic					eu Sanu (		PL=Pore Lining, M=Matrix.  oblematic Hydric Soils <sup>3</sup> :
Histosol				y Gleyed M			1 cm Muck (A	•
. —	pipedon (A2)			y Redox (S				Redox (A16) ( <b>LRR F, G, H</b> )
Black Hi	istic (A3)		Stripp	ed Matrix (	S6)		Dark Surface	
	en Sulfide (A4)			y Mucky Mi			High Plains D	
	d Layers (A5) (LRR I			y Gleyed M				itside of MLRA 72 & 73)
	uck (A9) ( <b>LRR F, G</b> , I			ted Matrix (			Reduced Veri	, ,
	d Below Dark Surfac ark Surface (A12)	:e (АТТ)		x Dark Surf ted Dark Si		`	Red Parent M	laterial (TF2) Dark Surface (TF12)
	Mucky Mineral (S1)			x Depressio		,	Other (Explain	
	Mucky Peat or Peat (	(S2) ( <b>LRR</b>	_	Plains Depr	, ,	16)		ophytic vegetation and
	ucky Peat or Peat (S		. — -	ILRA 72 &	,	,		logy must be present,
								ed or problematic.
Restrictive i	Layer (if present):			_				
Depth (in	ches):					_	Hydric Soil Presei	nt? Yes <u>√</u> No
Remarks:								
HYDROLO	GY							
	drology Indicators:							
_	cators (minimum of o		d: check all that an	nlv)			Secondary India	cators (minimum of two required)
✓ Surface		110 10 44110	Salt Crus		·			il Cracks (B6)
	iter Table (A2)		<del></del>	Invertebrate	es (B13)			egetated Concave Surface (B8)
✓ Saturation	• /			n Sulfide O				atterns (B10)
	larks (B1)			son Water		)		hizospheres on Living Roots (C3)
	nt Deposits (B2)			l Rhizosphe				
_	oosits (B3)			not tilled)			Crayfish Bu	
	at or Crust (B4)			e of Reduce		4)		Visible on Aerial Imagery (C9)
Iron Dep	oosits (B5)		Thin Muc	ck Surface	(C7)	,	✓ Geomorphi	
Inundation	on Visible on Aerial I	magery (B		xplain in Re			FAC-Neutra	* *
Water-S	tained Leaves (B9)						Frost-Heave	e Hummocks (D7) (LRR F)
Field Observ						$\Box$		
Surface Wate	er Present? Y	es	No Depth (i	nches): U	nknown			
Water Table	Present? Y	es	No 🗸 Depth (i	inches):				
Saturation Pr	resent? Y	es <u></u>	No Depth (i	nches): S	urface	_ Wet	tland Hydrology Prese	nt? Yes <u>√</u> No
(includes cap	oillary fringe)							
Describe Ked	corded Data (stream	gauge, nk	onitoring well, aetia	i pnotos, pi	'evious in	spections)	), if available:	
						_	<del></del>	
Remarks:								

Project/Site: 130 Environmental Park		City/Coun	<sub>ty:</sub> Lockha	rt/Caldw <u>ell</u>	_ Sampling Date: _C	06/20/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
Investigator(s): Troegle, Josh & Littleton, Bran						
Landform (hillstope, terrace, etc.): Depression		Local reli	ef (concave,	convex, none): Conca	ve Sior	e (%); 2-4
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: HeC2 - Heiden clay, 3 to 5 pe						
Are climatic / hydrologic conditions on the site typical f					·	***
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"	,	No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ		
SUMMARY OF FINDINGS - Attach site n					·	atures, etc.
					-	•
	No	Is	the Sampled		,	
	No	wi	thin a Wetla	nd? Yes	No_ <u>√</u>	
Remarks:					<u> </u>	
					<del></del>	
VEGETATION – Use scientific names of	plants.					
Tree Stratum (Plot size: 30'	Absolute		nt Indicator ? Status_	Dominance Test wor		
1. Quercus stellata	10	Yes	FACU	Number of Dominant S That Are OBL, FACW	Species or FAC	
2. Ulmus crassifolia	30	Yes	FAC	(excluding FAC-):	5	(A)
3.				Total Number of Domi	inant	
4.				Species Across All Str		(B)
	40	= Total C	over	Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size: 15'		Yes	EAC	That Are OBL, FACW		(A/B)
1. Ulmus crassifolia			FAC	Prevalence Index wo	rksheet:	·
2				Total % Cover of:		by:
3				OBL species	x 1 =	
5				FACW species	x 2 =	
0	5	= Total C	over	FAC species	x 3 =	
Herb Stratum (Plot size: 5'		, , , ,		FACU species		
1. Sesbania drummondii	40	Yes	FACW	UPL species		
2. Cyperus polystachyos	50	Yes	FACW	Column Totals:	(A)	(B)
3. Iva annua		No	FAC	Prevalence Inde	x = B/A =	
4				Hydrophytic Vegetat		
5			<del></del>	1 - Rapid Test for		tion
6				✓ 2 - Dominance Te	est is >50%	
7				3 - Prevalence Inc	dex is ≤3.0¹	
8				4 - Morphological	Adaptations <sup>1</sup> (Provid	de supporting
10					ks or on a separate s	•
10	100	= Total C	over	Problematic Hydro	opnytic vegetation: (	(Explain)
Woody Vine Stratum (Plot size: 30' )				<sup>1</sup> Indicators of hydric so		
1. Smilax rotundifolia	5	Yes	FAC -	be present, unless dis	turbed or problemati	c.
2				Hydrophytic		
% Bare Ground in Herb Stratum 80	5	= Total C	over	Vegetation Present? Y	es No	
Remarks:				-		<del></del>
Tree and sapling/shrub on perimeter of depress	sion					

SOIL Sampling Point: T9-DP6 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Type<sup>1</sup> Loc<sup>2</sup> (inches) Color (moist) % Texture 0-8 10 YR 5/1 60 5 YR 5/8 40 С M Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: \_\_\_ Sandy Gleyed Matrix (S4) \_\_\_ Histosol (A1) \_ 1 cm Muck (A9) (LRR I, J) \_\_\_ Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F. G. H) \_\_\_ Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR G) \_\_\_ Hydrogen Sulfide (A4) \_\_\_ Loamy Mucky Mineral (F1) High Plains Depressions (F16) \_\_\_ Stratified Layers (A5) (LRR F) (LRR H outside of MLRA 72 & 73) Loamy Gleyed Matrix (F2) \_\_\_ 1 cm Muck (A9) (LRR F, G, H) ✓ Depleted Matrix (F3) Reduced Vertic (F18) \_\_\_ Depleted Below Dark Surface (A11) \_\_\_ Redox Dark Surface (F6) Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) \_ Sandy Mucky Mineral (S1) \_\_\_ Redox Depressions (F8) Other (Explain in Remarks) \_\_\_ 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_\_\_ High Plains Depressions (F16) 3Indicators of hydrophytic vegetation and \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_\_ Depth (inches): \_ Hydric Soil Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) ✓ Surface Soil Cracks (B6) High Water Table (A2) \_\_ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_\_ Hydrogen Sulfide Odor (C1) \_ Saturation (A3) \_\_\_ Drainage Patterns (B10) \_\_\_ Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) ✓ Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) (where tilled) \_\_ Drift Deposits (B3) (where not tilled) \_ Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_\_ No ✓ Depth (inches): \_\_\_ Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_\_ Water Table Present?

Saturation Present?

Remarks:

(includes capillary fringe)

Wetland Hydrology Present? Yes ✓ No \_\_\_\_

Yes \_\_\_\_ No ✓ Depth (inches): \_\_\_\_\_

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

Project/Site: 130 Environmenta	l Park		City/Co	ounty: Lockh	nart/Caldwell		Sampling Date: 06/2	0/2013
Applicant/Owner: 130 Environme							Sampling Point: T9-D	
Investigator(s): Troegle, Josh &								
Landform (hillslope, terrace, etc.):						); Concave	Slope (%	); 0-1
Subregion (LRR): J - Southwester								. —
Soil Map Unit Name: MaB - Mabar					1			
Are climatic / hydrologic conditions o			ar? Ye	,				
Are Vegetation, Soil,		_					resent? Yes <a href="#"></a>	No
Are Vegetation, Soil,					needed, explair			
SUMMARY OF FINDINGS -					•		,	es, etc.
Hydrophytic Vegetation Present?	Yes	No <u>√</u>		Is the Sampl	lad Araa			
Hydric Soil Present?	Yes <u></u> ✓	No		within a Wet		Yes	No_ <b>√</b>	
Wetland Hydrology Present?	Yes <u>√</u>	No			iditų i			
Remarks:								
VECETATION Line acienti	fic names of al	lante						
VEGETATION – Use scienti			D =	inant lautanta	Daminana	. Took week	N4.	
Tree Stratum (Plot size: 301	)	Absolute % Cover		iinant Indicato cies? <u>Status</u>		e Test works Dominant Sp		
1.	<del></del> -				- Number of	BL, FACW, o	r FAC	
2					(excluding	FAC-);	0	_ (A)
3					Total Numb	er of Domina	ant	
4					_ Species Ac	ross All Strat	a: <u>2</u>	_ (B)
	15!		= Tota	al Cover		Dominant Sp		
Sapling/Shrub Stratum (Plot size: 1. Prosopis glandulosa		75	Yes	FACU	That Are O	BL, FACW, o	rFAC: 0	_ (A/B)
2. Ulmus crassifolia		2	No	FAC	Prevalence	Index work	sheet:	
3					Total %	6 Cover of:	Multiply by:	
4.					OBL specie	es	x 1 =	
5.							x 2 =	
			= Tota	al Cover	<b>I</b>		x 3 =	
Herb Stratum (Plot size: 5'	)	0.5	.,	ELOU			x 4 =	
1. Rottboellia cochinchinensis		95	Yes	FACU FAC			x 5 =	
2. Carex brevior 3. Sporobolus compositus		20	No No	$\frac{\text{TAC}}{\text{NI}}$	_ Column To	tals:	(A)	(B)
T					Preva	llence Index	= B/A =	
4					Hydrophyt	ic Vegetatio	n Indicators:	
5					1 - Rap	oid Test for H	ydrophytic Vegetation	
6 7						minance Test		
8					1 1	valence Inde		
9.					4 - Moi	rphological A	daptations <sup>1</sup> (Pro <b>v</b> ide su or on a separate sheet	pporting
10.					1		hytic Vegetation <sup>1</sup> (Expl	*
				al Cover				•
Woody Vine Stratum (Plot size: 3	······································						and wetland hydrology rbed or problematic.	must
1. <u>a</u>					`		——————————————————————————————————————	
2					Hydrophyl Vegetatior			
% Bare Ground in Herb Stratum 1	<u> </u>		_= Tota	al Cover	Present?	Yes	No <u>√</u>	
Remarks:								
Mesquite on perimeter of depre	ssion.							
<u> </u>								

Depth						Or Comm	m the absence	of mulcators.)
(inches)	Color (moist)	<u>(</u>	Color (mois	Redox Featu	res Type <sup>1</sup>	_Loc²	Texture	Remarks
0-4	10 YR 3/1		5 YR 6/8	15	C	M/PL	Clay	Isomarks
4-12	10 YR 4/2	<del>7</del> 0	5 YR 6/8	10	- <del>c</del>	M/PL	Clay	<del></del>
			- 0 110,0		_ —	IVI/1 □	Clay	-
	10YR 5/2	20					<u> </u>	
							<del></del>	<u> </u>
			-					
4								
	oncentration, D=D	_				ed Sand G		cation: PL=Pore Lining, M=Matrix.
-	Indicators: (Appl	licable to a			,			for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) pipedon (A2)			andy Gleyed N andy Redox (S				Muck (A9) (LRR I, J)
Histic Ep Black His				ripped Matrix				Prairie Redox (A16) (LRR F, G, H) Surface (S7) (LRR G)
_	n Sulfide (A4)			amy Mucky M				Plains Depressions (F16)
	l Layers (A5) ( <b>LR</b> F	RF)		amy Gleyed I				RR H outside of MLRA 72 & 73)
1 cm Mu	ick (A9) ( <b>LRR F, G</b>	3, H)	De	epleted Matrix	(F3)		,	ced Vertic (F18)
-	Below Dark Surfa	ace (A11)		edox Dark Sur	. ,			Parent Material (TF2)
	ark Surface (A12)			epleted Dark S		)		Shallow Dark Surface (TF12)
	lucky Mineral (\$1) Jucky Pest or Pes			edox Depressi		10)		(Explain in Remarks)
	flucky Peat or Pea icky Peat or Peat (			gh Plains Dep MIRA 72 8				of hydrophytic vegetation and
5 6111 1416	CKy Pear or 1 car,	(99) (ERIX I	)	(MLRA 72 8	1/3 OI EIN	( h)		d hydrology must be present, s disturbed or problematic.
Dootsiotivo I	_ayer (if present):						*	disturbed of problemano,
Restrictive L	ander the breaching	-						
	sayer (ii present)							
Туре:							Hvdric Soil	I Present? Yes √ No
Type: Depth (inc							Hydric Soil	I Present? Yes ✓ No
Туре:							Hydric Soil	I Present? Yes ✓ No
Type: Depth (inc							Hydric Soil	I Present? Yes ✓ No
Type: Depth (inc				-			Hydric Soil	l Present? Yes ✓ No
Type: Depth (inc	ches):						Hydric Soil	I Present? Yes <u>√</u> No
Type: Depth (inc Remarks:	ches):						Hydric Soil	I Present? Yes <u>√</u> No
Type: Depth (inc Remarks:  IYDROLOG Wetland Hyd	ches):	s:		t apply)				
Type: Depth (ind Remarks:  IYDROLOG Wetland Hyd Primary Indic	GY  Irology Indicator	s:	ed; check all that				Seconda	ary Indicators (minimum of two required
Type: Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indic Surface \	GY  Irology Indicator: ators (minimum of	s:	ed; check all that	Crust (B11)	Pag (B13)		<u>Seconda</u>	ary Indicators (minimum of two required face Soil Cracks (B6)
Type: Depth (ind Remarks:  IYDROLOG Wetland Hyd Primary Indic Surface \ High Wat	GY drology Indicators sators (minimum of Water (A1) ter Table (A2)	s:	ed; check all that Salt ( Aqua	Crust (B11) itic Invertebra			<u>Seconda</u> Surl Spa	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8)
Type: Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indic Surface V High Wat Saturatio	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3)	s:	ed; check all that Salt ( Aqua Hydro	Crust (B11) itic Invertebrat ogen Sulfide (	Odor (C1)		Seconda Surl Spa Drai	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) inage Patterns (B10)
Type: Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indic Surface \ High Wat Saturatio Water Ma	GY Irology Indicator eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1)	s:	ed; check all that Salt ( Aqua Hydro	Crust (B11) itic Invertebrat ogen Sulfide ( Season Water	Odor (C1) Table (C2)		Seconda Surl Spa Drai Oxio	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3
Type: Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indic Surface N High Wat Saturatio Water Ma Sedimen	GY Irology Indicator ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) It Deposits (B2)	s:	ed; check all that — Salt ( — Aqua — Hydro — Dry-S ✓ Oxidi	Crust (B11) itic Invertebrat ogen Sulfide ( Season Water ized Rhizosph	Odor (C1) Table (C2) eres on Liv		Seconda Suri Spa Drai Oxic (C3)	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3
Type: Depth (incomplete incomplete inco	GY  Irology Indicator: ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) osits (B3)	s:	ed; check all that Salt ( Aqua Hydro Dry-S Oxidi _(wh	Crust (B11)  itic Invertebrat  ogen Sulfide ( Geason Water  ized Rhizosph  nere not tilled	Odor (C1) Table (C2) eres on Liv I)	ing Roots	Seconda Suri Spa Drai Oxio (C3) (w	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8)
Type: Depth (incomplete incomplete inco	GY drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) sosits (B3) t or Crust (B4)	s:	ed; check all that Salt ( Aqua Hydro Dry-S Oxidi Wh Prese	Crust (B11)  Itic Invertebrat  ogen Sulfide (  Season Water  ized Rhizosph  nere not tilled  ence of Reduce	Odor (C1) Table (C2) eres on Liv I) ced Iron (C	ing Roots	Seconda  Suri Spa Drai Oxio (C3) (w Case Case Case Case Case Case Case Case	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9)
Type:	GY  drology Indicators sators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5)	's: f one require	ed; check all that Salt ( Aqua Hydro Dry-S _✓ Oxidi Prese Thin	Crust (B11)  Itic Invertebrat  ogen Sulfide ( Season Water  ized Rhizosph  nere not tilled  ence of Reduc  Muck Surface	Odor (C1) Table (C2) eres on Liv i) ced Iron (C4) (C7)	ing Roots	Seconda  Suri Spa Drai Oxic  (C3) (w Crai Satu	ary Indicators (minimum of two required face Soil Cracks (B6) breely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) proorphic Position (D2)
Type: Depth (incomplete incomplete inc	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aeria	s: f one require al Imagery (E	ed; check all that Salt ( Aqua Hydro Dry-S _✓ Oxidi Prese Thin	Crust (B11)  Itic Invertebrat  ogen Sulfide (  Season Water  ized Rhizosph  nere not tilled  ence of Reduce	Odor (C1) Table (C2) eres on Liv i) ced Iron (C4) (C7)	ing Roots	Seconda  Suri Spa Drai Oxic  (C3) (w Crai Satu ✓ Ged FAC	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5)
Type: Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indic Surface \( \) High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Water-St	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aeria ained Leaves (B9	s: f one require al Imagery (E	ed; check all that Salt ( Aqua Hydro Dry-S _✓ Oxidi Prese Thin	Crust (B11)  Itic Invertebrat  ogen Sulfide ( Season Water  ized Rhizosph  nere not tilled  ence of Reduc  Muck Surface	Odor (C1) Table (C2) eres on Liv i) ced Iron (C4) (C7)	ing Roots	Seconda  Suri Spa Drai Oxic  (C3) (w Crai Satu ✓ Ged FAC	ary Indicators (minimum of two required face Soil Cracks (B6) breely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) proorphic Position (D2)
Type:	GY  Irology Indicator Lators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) It Deposits (B2) losits (B3) It or Crust (B4) losits (B5) on Visible on Aeria Lained Leaves (B9 Vations:	s: f one require al Imagery (E	ed; check all that  Salt ( Aqua Hydro Dry-S  Oxidi (wh Prese Thin	Crust (B11)  ttic Invertebrat  ogen Sulfide ( Season Water  ized Rhizosph  nere not tilled  ence of Reduct  Muck Surface  r (Explain in F	Odor (C1) Table (C2) eres on Liv i) ced Iron (C- (C7) eemarks)	ing Roots	Seconda  Suri Spa Drai Oxic  (C3) (w Crai Satu ✓ Ged FAC	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5)
Type:	GY  Irology Indicator: ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aeria ained Leaves (B9 vations: ar Present?	s: f one require al Imagery (E )	ed; check all that Salt ( Aqua Hydro Dry-S Oxidi	Crust (B11)  Itic Invertebrat  ogen Sulfide ( Season Water  ized Rhizosph  nere not tillec  ence of Reduct  Muck Surface  r (Explain in F	Odor (C1) Table (C2) eres on Liv i) ced Iron (C- (C7) demarks)	ing Roots	Seconda  Suri Spa Drai Oxic  (C3) (w Crai Satu ✓ Ged FAC	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5)
Type:	GY  Irology Indicator: ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) osits (B3) tt or Crust (B4) osits (B5) on Visible on Aeria ained Leaves (B9 vations: ar Present? Present?	s: f one require al Imagery (E )  Yes Yes	ed; check all that  Salt ( Aqua Hydro Dry-S V Oxidi (wh Prese Thin I B7) Other	Crust (B11)  Itic Invertebrat ogen Sulfide ( Season Water ized Rhizosph here not tilled ence of Reduc Muck Surface r (Explain in F	Odor (C1) Table (C2) eres on Liv i) ced Iron (C- (C7) demarks)	ing Roots	Seconda  Suri Spa  Drai Oxio  (C3) (M  Cray Satt  ✓ Geo  FAC	ary Indicators (minimum of two required face Soil Cracks (B6) breely Vegetated Concave Surface (B8) inage Pattems (B10) dized Rhizospheres on Living Roots (C3 vhere tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) bromorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)
Type:	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) osits (B3) tt or Crust (B4) osits (B5) on Visible on Aeria ained Leaves (B9 vations: er Present? Present?	s: f one require al Imagery (E )  Yes Yes	ed; check all that Salt ( Aqua Hydro Dry-S Oxidi	Crust (B11)  Itic Invertebrat ogen Sulfide ( Season Water ized Rhizosph here not tilled ence of Reduc Muck Surface r (Explain in F	Odor (C1) Table (C2) eres on Liv i) ced Iron (C- (C7) demarks)	ing Roots	Seconda  Suri Spa  Drai Oxio  (C3) (M  Cray Satt  ✓ 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 (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5)

Project/Site: 130 Environmental Park		City/Co	ounty: Lockhai	rt/Caldwell	_ Sampling Date: 06/20/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T9-DP8
Investigator(s): Troegle, Josh & Littleton, Brandy	/n				
Landform (hillslope, terrace, etc.): Floodplain		Local r	relief (concave,	convex, none): Conca	ve Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					Datum: NAD 83
Soil Map Unit Name: MaB - Mabank Ioam, 1 to 3 per				NWI classif	
Are climatic / hydrologic conditions on the site typical for					
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eded, explain any answ	
SUMMARY OF FINDINGS – Attach site ma					
Hydrophylic Vegetation Present? Yes ✓	No				
Hydric Soil Present? Yes	No ✓		Is the Sampled within a Wetlar		No ✓
Hydric Soil Present? Yes  Wetland Hydrology Present? Yes	No <u>✓</u>		WITHIN A METICAL	id: Tes	NO <u>*</u>
Remarks:					
				<u> </u>	
VEGETATION – Use scientific names of pl	ants.				
T	Absolute		nant Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size: 30'	% Cover	Yes	ies? Status FACU	Number of Dominant	
1. Maclura pomifera 2. Ulmus crassifolia	— <del>10</del>	Yes	FAC	That Are OBL, FACW (excluding FAC-):	, or FAC (A)
3				Total Number of Domi Species Across All Str	_
7.	25	= Tota	l Cover		,
Sapling/Shrub Stratum (Plot size: 15'			. 00101	Percent of Dominant S That Are OBL, FACW	
1				Prevalence Index wo	
2					Multiply_by:
3	<del></del>				x 1 =
4				1	x 2 =
5					x3=
Herb Stratum (Plot size: 5'		= Tota	l Cover	1	x 4 =
1. Ambrosia trifida	98	Yes	FAC		x 5 =
2. Elymus virginicus		No	FACU		(A) (B)
3.					(-)
4.					x = B/A =
5				Hydrophytic Vegetat	
6					Hydrophylic Vegetation
7				✓ 2 - Dominance Te	
8				3 - Prevalence Inc	
9.				data in Remark	Adaptations <sup>1</sup> (Provide supporting ks or on a separate sheet)
10					ophytic Vegetation¹ (Explain)
201	103	= Tota	l Cover		
Woody Vine Stratum (Plot size: 30' )  1 Smilax rotundifolia				be present, unless dis	oil and wetland hydrology must turbed or problematic.
2			L Course	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 10		- rota	i COVEI	Present? Y	es No
Remarks:					<del></del>
Trees on perimeter of depression.					

Sampling Point: T9-DP8 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Depth \_\_Loc<sup>2</sup> Color (moist) % Type<sup>1</sup> Color (moist) (inches) Texture 0-10 10 YR 3/1 85 Clay 0 - 1010 YR 5/3 15 Clay <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: Sandy Gleyed Matrix (S4) Histosol (A1) \_\_\_ 1 cm Muck (A9) (LRR I, J) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) \_\_\_ Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR F) \_\_\_ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) \_\_\_ Depleted Matrix (F3) 1 cm Muck (A9) (**LRR F, G, H**) Reduced Vertic (F18) \_\_\_ Red Parent Material (TF2) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) \_\_\_ Depleted Dark Surface (F7) \_\_\_ Very Shallow Dark Surface (TF12) Thick Dark Surface (A12) \_\_\_ Redox Depressions (F8) Sandy Mucky Mineral (S1) Other (Explain in Remarks) \_\_\_ High Plains Depressions (F16) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) 3Indicators of hydrophytic vegetation and 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): **Hydric Soil Present?** Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) \_\_\_ Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_\_ Hydrogen Sulfide Odor (C1) Saturation (A3) \_\_\_ Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) \_\_\_ Thin Muck Surface (C7) ✓ Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_\_ No ✓ \_\_ Depth (inches): \_\_\_ Surface Water Present? Yes \_\_\_\_\_ No <u>✓</u> Depth (inches): \_\_\_\_\_ Water Table Present? Yes No ✓ Depth (inches): Wetland Hydrology Present? Yes No ✓ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: 130 Environmental Park		Citv/Co	<sub>untv:</sub> Lockha	rt/Caldwell	Sampling Date:	06/20/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandy						
Landform (hillslope, terrace, etc.): Floodplain					ave el	nno (%): 4-8
Subregion (LRR): J - Southwestern Prairies	Lat: 29	97	eller (collicave,	Leng: -97 66	SIC	МДП 83
Soil Map Unit Name: Ts - Tinn soils, frequently flood						JM: NAD 00
· · · · · · · · · · · · · · · · · · ·				NWI classi		
Are climatic / hydrologic conditions on the site typical for						,
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"	_	No
Are Vegetation, Soil, or Hydrology	_ naturally pro	blemati	ic? (If ne	eeded, explain any ansv	vers in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	p showing	samp	oling point l	ocations, transect	ts, important f	eatures, etc.
Hydrophytic Vegetation Present? Yes ✓	No			<u> </u>		
Hydric Soil Present? Yes	No ✓		Is the Sampled			
Hydric Soil Present? Yes  Wetland Hydrology Present? Yes	No <del>✓</del>	'	within a Wetlar	nd? Yes	No <u>√</u>	_
Remarks:						
-						
VEGETATION III		· · · · · · · · · · · · · · · · · · ·				
VEGETATION – Use scientific names of pla						
Tree Stratum (Plot size: 30'	Absolute % Cover		nant Indicator es? Status	Dominance Test wo		
1. Fraxinus pennsylvanica	50	Yes	FAC	Number of Dominant That Are OBL, FACW		
2. Salix nigra	10	No	FACW	(excluding FAC+);	5	(A)
3. Melia azedarach	15	No	FACU	Total Number of Dom	inant	
4. Ulmus crassifolia	10	No	FAC	Species Across All St	_	(B)
151	85	= Total	Cover	Percent of Dominant	Species	
Sapling/Shrub Stratum (Plot size: 15')	50	Vac	EAC	That Are OBL, FACW	/, or FAC: 100	(A/B)
1. Ulmus crassifolia 2. Fraxinus pennsylvanica	<u> </u>	Yes	FAC FAC	Prevalence Index wo	orksheet:	
3. Melia azedarach	10	No	FACU		:Multip	lv bv:
				OBL species		
4				FACW species		
0	75	= Total	Cover	FAC species		
Herb Stratum (Plot size: 5'		Total	00101	FACU species	x 4 =	
1. Ambrosia trifida	95	Yes	FAC	UPL species		
2. Elymus virginicus	3	No	FAC FAC	Column Totals:	(A)	(B)
3				Prevalence Inde	ex = B/A =	
4				Hydrophytic Vegetat		
5				1 - Rapid Test for		ation
6			<del></del>	✓ 2 - Dominance Te		
7				3 - Prevalence In-		
8				4 - Morphological	I Adaptations <sup>1</sup> (Prov	ride supporting
9				data in Remar	rks or on a separate	sheet)
10	0.0	- Total	L Carrar	Problematic Hydr	ophytic Vegetation	(Explain)
Woody Vine Stratum (Plot size: 30'		- rotal	Cover	<sup>1</sup> Indicators of hydric s	oil and wetland hyd	rology must
1. Smilax rotundifolia	20	Yes	FAC	be present, unless dis	sturbed or problema	itic.
2			<del></del>	Hydrophytic		<del></del>
25	20	= Total	Cover	Vegetation Present? Y	′es No	
% Bare Ground in Herb Stratum 25	<del> </del>			i lesent:	NO	
Remarks:						

Sampling Point: T9-DP9 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Type<sup>1</sup> Color (moist) Loc<sup>2</sup> Texture (inches) 85 0-10 10 YR 3/1 Clay 0 - 1010 YR 5/3 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: Sandy Gleyed Matrix (S4) \_\_\_ 1 cm Muck (A9) (LRR I, J) Histosol (A1) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) \_\_\_ Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Stratified Layers (A5) (LRR F) \_ Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) \_ 1 cm Muck (A9) (LRR F, G, H) \_\_\_ Depleted Matrix (F3) Reduced Vertic (F18) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Red Parent Material (TF2) \_\_\_ Depleted Dark Surface (F7) Thick Dark Surface (A12) Very Shallow Dark Surface (TF12) \_\_\_ Redox Depressions (F8) Sandy Mucky Mineral (S1) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) \_\_\_ High Plains Depressions (F16) \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: \_ Depth (inches): \_\_\_ **Hydric Soil Present?** Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) \_\_\_ Sait Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) \_ Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) \_\_\_ Saturation (A3) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) \_\_\_ Water Marks (B1) \_\_\_ Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) \_\_\_ Thin Muck Surface (C7) ✓ Geomorphic Position (D2) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Yes \_\_\_\_\_ No <u>✓</u> Depth (inches): \_\_\_\_\_\_ Surface Water Present? Yes \_\_\_\_\_ No <u>✓</u> Depth (inches): \_\_\_\_\_

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

Yes \_\_\_\_\_ No ✓ Depth (inches): \_\_\_

Water Table Present?

Saturation Present?

Wetland Hydrology Present? Yes No ✓

Project/Site: 130 Environmental Park	(	Citv/Cour	<sub>itv:</sub> Lockhai	rt/Caldwell	Sampling Date: 06/21/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T9-DP10
Investigator(s): Troegle, Josh & Littleton, Brandyn					_ camping to and
Landform (hillslope, terrace, etc.): Depression			-		ve signo (%/): 0-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: Ts - Tinn soils, frequently flooded					
			_	NWI classifi	
Are climatic / hydrologic conditions on the site typical for this					,
Are Vegetation, Soil, or Hydrologys					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology n	aturally pro	blematic'	? (If ne	eded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	sampl	ing point le	ocations, transects	s, important features, etc.
No. of No. 10 No					
Hydrophytic Vegetation Present?  Yes  ✓ Note that the Note of the			the Sampled		
Wetland Hydrology Present? Yes ✓ No.		w	ithin a Wetlar	nd? Yes <u>▼</u>	No
Remarks:		J			
VEGETATION II : ('C' C' C' L'	<u> </u>			<u> </u>	
VEGETATION – Use scientific names of plan				T	1.1.
Tree Stratum (Plot size: 30'	Absolute % Cover		int Indicator Status	Dominance Test work	
1				Number of Dominant S That Are OBL, FACW,	, or FAC
2.				(excluding FAC-):	<u>2</u> (A)
3				Total Number of Domi	
4				Species Across All Str	rata: <u>2</u> (B)
201		= Total C	Cover	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 30t )				That Are OBL, FACW,	, or FAC: 100 (A/B)
1				Prevalence Index wo	rksheet:
3				Total % Cover of:	Multiply by:
4				OBL species	x 1 =
5					x 2 =
		= Total C	Cover		x 3 =
Herb Stratum (Plot size: 30')	<i>c</i> o		ODI		x 4 =
1. Eleocharis palustris	60	Yes No	OBL FACW	UPL species	
2. Phyla lanceolata 3. Setaria parviflora	15	No	FAC	Column Totals:	(A) (B)
3. Setaria parvijiora 4. Iva annua	5	No	FAC	Prevalence Inde	x = B/A =
5. Axonopus fissifolius	75	Yes	FAC	Hydrophytic Vegetati	ion Indicators:
6 Carex brevior	10	No	FAC	1 - Rapid Test for	Hydrophytic Vegetation
7 Cyperus setigerus	10	No	FAC	✓ 2 - Dominance Te	
8				3 - Prevalence Inc	
9.				4 - Morphological	Adaptations <sup>1</sup> (Provide supporting ks or on a separate sheet)
10.					ophytic Vegetation <sup>1</sup> (Explain)
201	195	= Total C	Cover		
Woody Vine Stratum (Plot size: 30' )				Indicators of hydric so be present, unless dist	oil and wetland hydrology must
1					
2				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 5		- 10(8) (	JUVEI.	Present? Ye	es No
Remarks:					

Sampling Point: T9-DP10

(inches)	Matrix		Re	dox Featur	25			
0.40	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10 YR 2/1	80	5 YR 4/8	20	C	M/PL	Clay	
10-14	10 YR 4/1	40	10 YR 6/8	25	С	М	Clay	
10-14	10 YR 3/1	30						<del></del>
	oncentration, D=Dej					d Sand G	rains. <sup>2</sup> Locat	ion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	cable to all	LRRs, unless oth	nerwise no	ted.)		Indicators fo	r Problematic Hydric Soils <sup>3</sup> :
— Histosol	` '			y Gleyed M				ck (A9) ( <b>LRR I, J</b> )
	pipedon (A2)			y Redox (S	•			airie Redox (A16) (LRR F, G, H)
	istic (A3) en Sulfide (A4)			ed Matrix ( y Mucky Mi				face (S7) (LRR G)
	d Layers (A5) (LRR	F)		y Gleyed M				ns Depressions (F16) H outside of MLRA 72 & 73)
	ick (A9) (LRR F, G,			ted Matrix				Vertic (F18)
	d Below Dark Surfac			x Dark Surf				ent Material (TF2)
Thick Da	ark Surface (A12)			ted Dark S				llow Dark Surface (TF12)
	lucky Mineral (S1)			x Depressio				oplain in Remarks)
	Mucky Peat or Peat			Plains Depr				hydrophytic vegetation and
5 cm Mu	icky Peat or Peat (S	3) ( <b>LRR F</b> )	(N	ILRA 72 &	73 of LRR	H)		ydrology must be present,
Restrictive I	Layer (if present):	-					unless di	sturbed or problematic.
Type:	Layer (ii present).							
	ches):						11	
	ones).						Hydric Son Pr	resent? Yes / No
Remarks:								
VDDALA								
TURULU	GY							
Wetland Hyd	drology Indicators:							
Wetland Hyd Primary Indic	drology Indicators: cators (minimum of c		d; check all that ap	ply)			Secondary	Indicators (minimum of two required)
Wetland Hyd Primary Indic Surface	drology Indicators: cators (minimum of c Water (A1)		t; check all that ap				·	Indicators (minimum of two required) e Soil Cracks (B6)
<b>Wetland Hyd</b> Primary Indic Surface High Wa	drology Indicators: cators (minimum of c Water (A1) der Table (A2)			st (B11)	es (B13)		Surface	
Wetland Hyd Primary Indic Surface High Wa	drology Indicators: eators (minimum of c Water (A1) ter Table (A2) on (A3)		Salt Crus Aquatic Hydroge	st (B11) Invertebrate n Sulfide O	dor (C1)		Surface Sparse Draina	e Soil Cracks (B6) ily Vegetated Concave Surface (B8) ge Patterns (B10)
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Data Point 1
Post Oak Woods



Data Point 1 Post Oak Woods



Data Point 2 Sumpweed Depressions

T9 - Page 1



Data Point 2 Sumpweed Depressions



Data Point 3 Sumpweed Depressions



Data Point 3 Sumpweed Depressions

T9 - Page 2



Data Point 4 Riparian Woods (Cedar Elm/Oak



Data Point 4 Riparian Woods (Cedar Elm/Oak



Data Point 5 Lacustrine Fringe Wetlands



Data Point 5 Lacustrine Fringe Wetlands



Data Point 6 Sumpweed Depressions



Data Point 7 Mesquite Woods

T9 - Page 4



Data Point 8 Floodplain Meadows



Data Point 8 Floodplain Meadows



Data Point 9 Riparian Woods (Green Ash/ Pecan)

T9 - Page 5



Data Point 9 Riparian Woods (Green Ash/ Pecan)



Data Point 10 Floodplain Meadows



Data Point 10 Floodplain Meadows

T9 - Page 6