APPENDIX C AQUATIC RESOURCES DELINEATION

AQUATIC RESOURCES DELINEATION FOR THE

±3-ACRE NORWOOD AVENUE TOWNHOMES STUDY AREA

SACRAMENTO COUNTY, CALIFORNIA



Prepared for: Norwood North LLC 7225 26th Street Rio Linda, CA 95673

Prepared by:



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AQUATIC RESOURCES DELINEATION FOR THE ±3-ACRE NORWOOD AVENUE TOWNHOMES STUDY AREA

INTRODUCTION

Location and Setting

Salix Consulting, Inc. (Salix) prepared an Aquatic Resources delineation for the ±3-acre Norwood Avenue Townhomes study area located at 4790 Norwood Avenue at the intersection of Norwood Avenue and Main Avenue, in unincorporated Sacramento County, California. The approximate coordinates for the center of the property are 38°39′14.77″ N and 121° 27′23.10″ W. It is situated within the Del Paso Land Grant, Civil Colonies, which was not part of the Township/Range system. It is located in the Rio Linda 7.5-minute USGS topographic quadrangle (Figure 1).

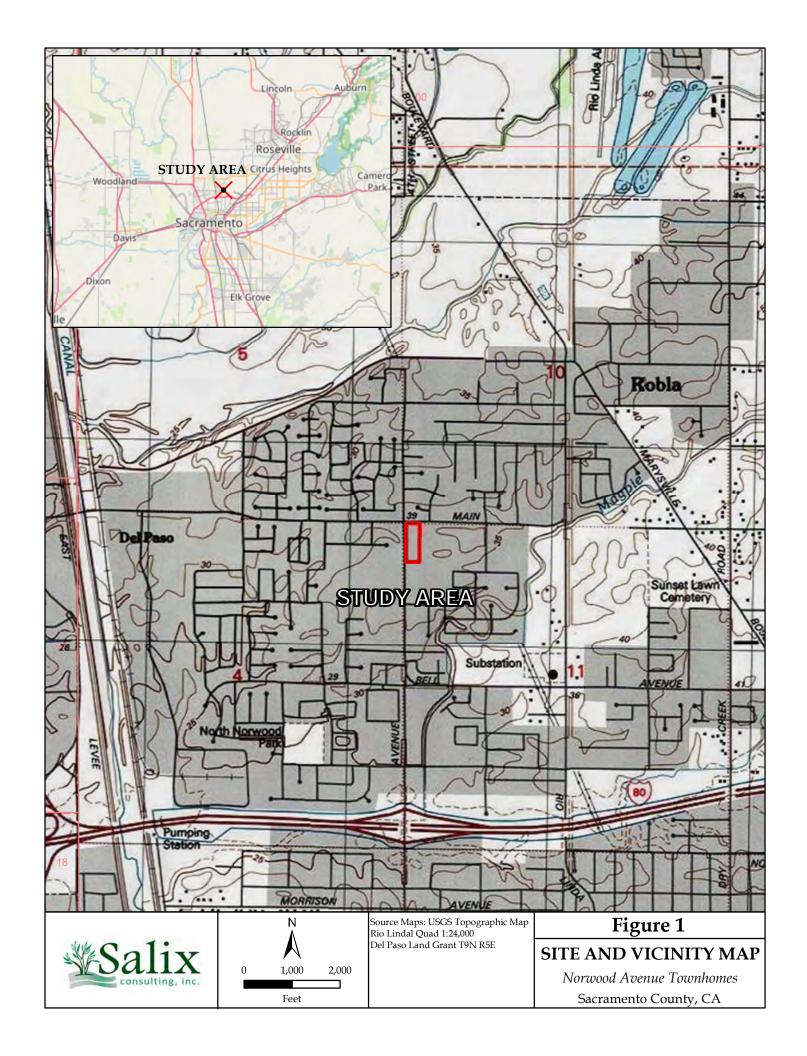
The site is situated in the Sacramento Valley at an elevation of approximately 40 feet. The study area is bounded on the north and west by residential subdivisions, on the east and south by rural residential development. The study area is undeveloped and is regularly disked (Figure 2).

CONTACT INFORMATION

Applicant:

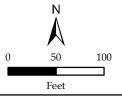
Norwood North LLC 7225 26th Street Rio Linda, CA 95673 Contact: Jeremy Jaeger Delineated by:

Salix Consulting, Inc. 11601 Blocker Drive, Suite 100 Auburn, California 95603 Phone: (530) 888-0130 Contact: Jeff Glazner









(±3.13 acres)

Imagery: 5-1-21 Salix Consulting, Inc.

AERIAL MAP

Norwood Avenue Townhomes Sacramento County, CA

METHODOLOGY

Aquatic resources were delineated on April 22, 2021, and on May 1, 2021, by Jeff Glazner of Salix Consulting using the 1987 Corps Manual (Environmental Laboratory 1987) as amended by the Arid West Regional Supplement (U.S. Army Corps of Engineers 2008). The site was observed on foot, and potential aquatic resources were evaluated and mapped. In addition, an Unmanned Aerial Vehicle (UAV) was utilized to generate a current aerial photo and oblique photos of the study area, which are used in this report Three-parameter data sheets (Appendix A) were filled out at four (4) locations as indicated on the Aquatic Resources Delineation Map. Features were mapped using a Trimble GeoXT 6000 GPS (submeter).

U.S. Department of Agriculture – National Resource Conservation Service's online Web Soil Survey (NRCS 2021) was assessed to identify mapped soils. Appendix B is a list of plants observed on the property. Where a plant species observed has a wetland indicator status (not UPL), plant nomenclature follows the National Wetland Plant List, version 3.4 (USACE 2018), Otherwise, plant nomenclature is according to *The Jepson Flora Project (Jepson eflora)*. The Corps of Engineers Aquatic Resources spreadsheet is included in Appendix C.

FINDINGS

Climate

Sacramento has a hot-summer Mediterranean climate, characterized by very hot, dry summers and mild to cool winters with occasional rainfall. The wet season is generally October through April; there may be a day or two of light rainfall in June or September. The hot season lasts for 3.7 months, from June 5 to September 26, with an average daily high temperature above 86°F. The cool season lasts for 2.9 months, from November 22 to February 18, with an average daily high temperature below 62°F. Summer heat is sometimes moderated by a sea breeze known as the "delta breeze" which comes through the Sacramento–San Joaquin River Delta from the San Francisco Bay, and temperatures cool down sharply at night.

The foggiest months are December and January. Tule fog can be extremely dense, lowering visibility to less than 100 feet. Chilling tule fog events have been known to last for several consecutive days or weeks. During tule fog events, temperatures do not exceed 50 F.

The average annual precipitation is 18.52 inches, nearly all falling in the winter months. Snowfall is rare. The 2021 rain year was well below normal with very little rain falling in the spring.

Soils

One soil unit has been mapped within the study area- San Joaquin fine sandy loam, 0 to 3 percent slopes (NRCS 2021) (Figure 3).



San Joaquin fine sandy loam, 0 to 3 percent slopes

The **San Joaquin component** makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on valleys, low terraces. The parent material consists of alluvium derived from granite. Depth to a root restrictive layer, duripan, is 35 to 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3s. Irrigated land capability classification is 3s. This soil does not meet hydric criteria.

This soil series may include inclusions of the Dierseen Series, which can have components of dense clay (Clear Lake, Galt) and have cracks that open to the surface. We observed these characteristics in the area where aquatic resources are mapped, but not anywhere else on the property.

Hydrology

The site occurs in the Lower Steelhead Creek HUC12 watershed (180201110303) part of the greater Lower American HUC8 watershed (18020111). Water on site trends presumably south towards Magpie Creek (1/3 mile south of the project site) through a series of roadside ditches and culverts and underground drainage systems. Magpie Creek flows south for less than a half-mile before entering a series of ditches along Interstate 80. These ditches flow a mile westerly before entering Steelhead Creek. Steelhead Creek flows 5 miles south until entering the Lower American River near Discovery Park and the Sacramento River.

Vegetation

The study area is primarily annual grassland that has been disturbed from regular disking. Landcover types are summarized in Table 1 below.

Table 1. Landcover Types Present within the Norwood Avenue Townhomes Study Area						
Biological Community	Acreage					
Ruderal Annual Grassland	3.1					

The entire study area, except for the area around the woody vegetation in the northern area, is regularly disked and maintained. Species growing on the site are almost entirely weedy and annual. A grove of trees and shrubs occurs in the northern area and includes cottonwood, valley oak, northern California black walnut, plum, fruitless mulberry, fig, and a dense clump of giant reed. The footprint of these species is relatively small, and they are included in the ruderal habitat.

The most common species on the site during the site evaluations were wild oat (*Avena fatua*) and ripgut grass (*Bromus diandrus*). Other common species observed were Italian rye grass (*Festuca perennis*), broad leaf filaree (*Erodium botrys*), vetch (*Vicia villosa*), yellow star thistle (*Centaurea solstitialis*), rose clover (*Trifolium hirtum*), soft chess (*Bromus hordeaceus*), foxtail barley (*Hordeum murinum*), Bermuda grass (*Cynodon dactylon*), and ruby sand-spurrey (*Spergularia rubra*).

Aquatic Resources

The study area contains remnant depressions that show evidence of prolonged saturation. Four small basins have been identified that occur on distinctly different soils characterized as "dense clay" from visual observation. It is our presumption that this area of the site contains a clay inclusion that impedes percolation. The shallow basins behave as marginal wetlands as they support facultative grasses (Italian rye grass and Mediterranean barley) as well as an algal mat.

Table 2 summarizes the mapped aquatic resources. Representative site photos are presented in Figures 4a, 4b, and 4c. Figure 5 is the map of aquatic resources.

Table 2.
Norwood Avenue Townhomes Aquatic Resources

Туре	Acreage
Seasonal Wetland	
SW-1	0.007
SW-2	0.005
SW-3	0.006
SW-4	0.009
Total	0.026

Seasonal Wetlands

Four seasonal wetland basins are mapped on the property. The features were first observed on December 4, 2020, then on April 22, 2021, and on May 1, 2021. The site was disked in the fall of 2020, and on April 30, 2021, so the basins were mostly lacking vegetation during the first and last site visits. During April, the grasses were growing robustly, and algal matting was present, but none of the basins were ponding or saturated.



Looking northwest over study area.

Photo Date 5-1-21.



Looking northeast over study area. Grey soils near center of site represents a dense clay inclusion and areas of perched water during winter. *Photo Date 5-1-21.*



Figure 4a

AERIAL SITE PHOTOS

Norwood Avenue Townhomes
Sacramento County, CA



Looking south over area with mapped wetlands.

Photo Date 4-22-21.



Looking south from near northeast corner of study area. *Photo Date* 12-4-20.



Figure 4b

SITE PHOTOS

Norwood Avenue Townhomes
Sacramento County, CA



Looking into depression mapped as SW-1. Facultative grasses and algal matting observed.

*Photo Date 4-22-21.**



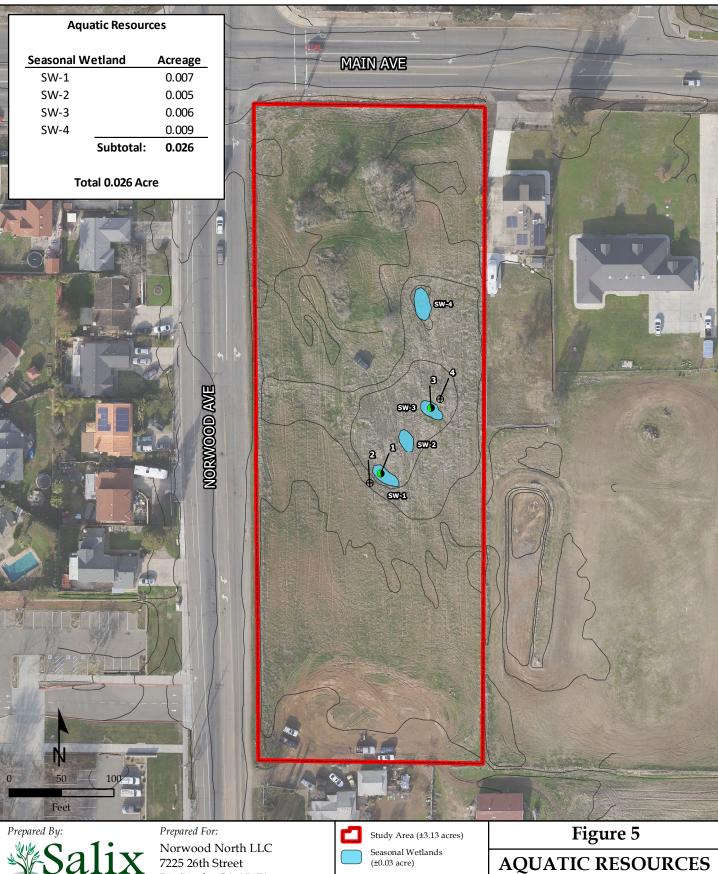
Looking into depression mapped as SW-3. Facultative grasses and algal matting observed. *Photo Date 4-22-21.*



Figure 4c

SITE PHOTOS

Norwood AvenueTownhomes
Sacramento County, CA



DELINEATED BY: J. Glazner April-May 2021

DRAWN BY: H. Gallant

COORDINATE SYSTEM: NAD83 State Plane II USFT IMAGERY: Baker-Williams Engineering Group

Rio Linda, CA 95673

- ⊕ Upland Data Point
- Wetland Data Point

AQUATIC RESOURCES DELINEATION MAP

Norwood Townhomes

Sacramento County, CA

July 19, 2021

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Appendix A. Wetland Data Sheets

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Norwood Avenue Townhomes		City/Count	y: <u>Sacrame</u>	ento County	Sampling Date: 4-22 & 5-1-21
Applicant/Owner: Norwood North LLC				State:CA	Sampling Point:01
					Grant T9N R5E
Landform (hillslope, terrace, etc.): terrace					
Subregion (LRR): LRR C	_ Lat: <u>38</u> .	653876		Long: <u>-121.456388</u>	Datum: NAD83
Soil Map Unit Name: San Joaquin fine sandy loam, 0 to	3 percen	t slopes		NWI class	ification:
Are climatic / hydrologic conditions on the site typical for this	s time of yea	ar? Yes _	✓ No _	(If no, explain ir	n Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly	disturbed?	Are '	'Normal Circumstances	s" present? Yes No
Are Vegetation, Soil, or Hydrology n	aturally pro	blematic?	(If ne	eded, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	samplir	ng point l	ocations, transec	ts, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Depressional area with dense, cracked clay	0	witi		nd? Yes	
VEGETATION – Use scientific names of plan	 ts.				
	Absolute		t Indicator	Dominance Test wo	orksheet:
Tree Stratum (Plot size:)	% Cover			Number of Dominant That Are OBL, FACV	
1					
3.				Total Number of Don Species Across All S	I
4.				Percent of Dominant	Snecies
Carling/Chaula Stratum (Plot 570)		= Total Co	over	That Are OBL, FACV	V, or FAC:100 (A/B)
Sapling/Shrub Stratum (Plot size:) 1				Prevalence Index w	orksheet:
2				Total % Cover o	f: Multiply by:
3.				OBL species	x 1 =
4.				FACW species	x 2 =
5				·	x 3 =
		= Total C	over		x 4 =
Herb Stratum (Plot size:)	60	V	FAC		x 5 =
Festuca perennis Hordeum marinum				Column Totals:	(A) (B)
				Prevalence Ind	ex = B/A =
34.				Hydrophytic Vegeta	ation Indicators:
5				✓ Dominance Test	is >50%
6.				Prevalence Inde	
7				Morphological A	daptations¹ (Provide supporting
8.					rks or on a separate sheet) rophytic Vegetation¹ (Explain)
	80	= Total C	over	Problematic Hyd	nopriyue vegetation (Explain)
Woody Vine Stratum (Plot size:)				1Indicators of hydric	soil and wetland hydrology must
1. 2.				be present, unless di	sturbed or problematic.
2		= Total C	over	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present?	Yes No
Remarks:					
Grassy depression.					

Depth	ription: (Describe	to the dep	oth needed to docu	ıment the	indicator	or confir	m the absence	e of indicators.)
	Matrix			lox Feature		- 3		
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
-12	10YR 4/1	90	5YR 4/6	_ 10	<u>C</u>	M	clayey lo	
	•							· -
	-	-		_			-	
				_				
			12-					
	<u></u>		37					
			9					
	oncentration, D=Dep	letion PM	=Peduced Matrix C	S=Covere	d or Coate	ed Sand G	Grains ² l o	ocation: PL=Pore Lining, M=Matrix.
	Indicators: (Applic					od Odina C		s for Problematic Hydric Soils ³ :
_ Histosol	(A1)		Sandy Red	dox (S5)			1 cm	Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M	Matrix (S6)				Muck (A10) (LRR B)
_	istic (A3)		Loamy Mu					ced Vertic (F18)
_ , ,	en Sulfide (A4)		Loamy Gle				_	Parent Material (TF2)
	d Layers (A5) (LRR	C)	✓ Depleted f				Other	r (Explain in Remarks)
	uck (A9) (LRR D)	o (A11)	Redox Da		. ,			
	d Below Dark Surfac ark Surface (A12)	æ (A11)	Redox De				3Indicators	s of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Po	-	(10)			hydrology must be present,
	Sleyed Matrix (S4)			0.0 (1 0)				disturbed or problematic.
	Layer (if present):							
Type:								
							1	
Depth (in	ches):						Hydric Soi	il Present? Yes <u>√</u> No
· `	ches):			-			Hydric Soi	il Present? Yes No
emarks:		k clay					Hydric Soi	il Present? Yes <u>√</u> No
emarks:	nt redox in dark	k clay.	 -				Hydric Soi	il Present? Yes <u>√</u> No
emarks: rominer	nt redox in dark	k clay.					Hydric Soi	il Present? Yes <u>√</u> No
emarks: rominer	nt redox in dark						Hydric Soi	il Present? Yes <u>√</u> No
emarks: rominer DROLO	nt redox in dark		ed; check all that app	ply)				il Present? Yes No
emarks: rominer /DROLO /etland Hy rimary Indi	of redox in dark GY Grology Indicators: cators (minimum of c						Seco	17
emarks: TOMINER TOROLO etland Hy imary Indi _ Surface	of redox in dark OGY drology Indicators: cators (minimum of o		Salt Crus	st (B11)			Secc	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
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YDROLO Vetland Hy Imary Indi Surface High Water M Sedime Drift De Surface Inundati Water-S Veter M	ont redox in dark OGY drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: er Present?	crine) priverine) priverine) lmagery (E	Salt Crus ✓ Biotic Cru — Aquatic I — Hydrogei — Oxidized ✓ Presence — Recent Ir Thin Muc — Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface xplain in R	odor (C1) eres along ed Iron (C tion in Tille (C7) emarks)	4) d Soils (C	Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS)
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rominer /DROLO /etland Hy rimary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-Sield Obser urface Wat vater Table aturation P ncludes ca	drology Indicators: cators (minimum of of other Table (A2) on (A3) Marks (B1) (Nonriver Int Deposits (B2) (Nonriver Int Deposits (B3) (Nonrive	crine) prine) prine) prine) lmagery (E	Salt Crus ✓ Biotic Cru — Aquatic I — Hydrogei — Oxidized ✓ Presence — Recent Ir Thin Muc — Other (Existed to the continuous of th	st (B11) ust (B12) invertebrate in Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface explain in R inches): inches):	odor (C1) eres along ed Iron (C cion in Tille (C7) emarks)	4) d Soils (C	Second S	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
rominer DROLO Vetland Hy rimary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S Vetla Obser urface Water Table aturation P nocludes ca	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	crine) prine) prine) prine) lmagery (E	Salt Crus ✓ Biotic Cru — Aquatic I — Hydrogei — Oxidized ✓ Presence — Recent Ir Thin Muc — Other (Existed to the continuous of th	st (B11) ust (B12) invertebrate in Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface explain in R inches): inches):	odor (C1) eres along ed Iron (C cion in Tille (C7) emarks)	4) d Soils (C	Second S	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Norwood Avenue Townhomes		City/C	ounty	Sacrame	nto County	Sampli	ing Date: 4	-22 & .	5-1-21
					State:C/				
Investigator(s): Jeff Glazner									
Landform (hillslope, terrace, etc.): terrace									
Subregion (LRR): LRR C									
Soil Map Unit Name: San Joaquin fine sandy loam, 0 to 3									
Are climatic / hydrologic conditions on the site typical for this tir									
					'Normal Circumstan			No	
Are Vegetation, Soil, or Hydrology sign					eded, explain any a			110.	
Are Vegetation, Soil, or Hydrology natu				•				turoe	oto
SUMMARY OF FINDINGS – Attach site map sh	owing	sam	piin	g point is	ocations, trans	ects, impo	rtant iea	lures	, e.c.
Hydrophytic Vegetation Present? Yes No _			is th	e Sampled	Area				
Hydric Soil Present? Yes No _	<u>√</u>			•	nd? Yes	N	o <u>√</u>		
Wetland Hydrology Present? Yes No _									
Remarks:									
Upland comparison to data point 01. Outside	of ba	sin.							
VEGETATION – Use scientific names of plants.						1.1			
	bsolute Cover			Indicator Status	Dominance Test				
1					Number of Domina That Are OBL, FA		0		(A)
2					Total Number of D				
3					Species Across Al		0		(B)
4					Percent of Domina	ant Snacies			
		_= Tot	al Co	ver	That Are OBL, FA	CW, or FAC:	0		(A/B)
Sapling/Shrub Stratum (Plot size:)					Prevalence Index	worksheet			
1					Total % Cove			ov:	
2)			
3. 4.					FACW species 0				
5.					FAC species 1				
		= Tot	al Co	ver	FACU species 2	.0	c 4 = <u>8</u>	0	
Herb Stratum (Plot size:)					UPL species <u>5</u>	5	c 5 = <u>2</u>	75	9
				UPL	Column Totals:	<u>85</u> (A)3	85	(B)
2. Bromus diandrus	25			UPL	Prevalence I	Index = B/A =	- 4.5		
3. <u>Bromus hordeaceus</u>	20		<u> </u>	FACU	Hydrophytic Veg				
4. Festuca perennis					Dominance To				
5					Prevalence In				
6					Morphologica	I Adaptations	1 (Provide si	upportir	ng
7					data in Re	marks or on a	ı separate s	neet)	
V 	85				Problematic H	lydrophytic V	egetation' (F	Explain)
Woody Vine Stratum (Plot size:)		•							.
1					¹ Indicators of hydr be present, unless	ic soil and we s disturbed or	etland hydro problematic	logy mi ;.	ust
2							<u> </u>		
_		_= Tot	al Co	ver	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum15 % Cover of	Biotic C	rust			Present?	Yes	_ No <u>√</u>		
Remarks:									
Weedy upland grass species.									
, 1234, where 9, 444 ab 21.									

SOIL						-		Sampling	Point: _	02
	•	to the dep	th needed to docum		dicator o	or confirm	n the absence of in	idicators.)		
Depth (inches)	Color (moist)	%	Color (moist)	Redox Features Color (moist) % Type ¹ Loc ²				Rem	arks	
					1700					
0-12	10YR 4/3	100					clayey lo			
-										
							-			
-										
			V							
				-						
¹Tuno: C=Co	ncontration D-De	nletion PM:	=Reduced Matrix, CS	S=Covered o	or Coate	d Sand G	rains ² l ocation	n: PL=Pore Lin	ing M=I	Matrix
			LRRs, unless other			a Garia G	Indicators for I			
Histosol		00010 10 011	Sandy Red		,			(A9) (LRR C)	* A & S	
_	ipedon (A2)		Stripped Ma	, ,			2 cm Muck	, , ,		
Black His	. , ,		Loamy Muc		F1)		Reduced V			
	n Sulfide (A4)		Loamy Gley	•			Red Parent	t Material (TF2)		
_ , .	Layers (A5) (LRR	(C)	Depleted M		,		Other (Explain in Remarks)			
1 cm Mu	ck (A9) (LRR D)	•	Redox Dark	Surface (Fo	6)					
Depleted	Below Dark Surfa	ce (A11)	Depleted Da	ark Surface	(F7)					
Thick Da	rk Surface (A12)		Redox Depr	ressions (F8	3)		³ Indicators of hy			nd
Sandy M	ucky Mineral (S1)		Vernal Pool	s (F9)			-	ology must be p		
	leyed Matrix (S4)						unless distur	bed or problem	atic.	
Restrictive L	.ayer (if present):									
Type:										
Depth (inc	:hes):						Hydric Soil Pres	sent? Yes _		No <u>√</u>
Remarks:										
CI.			da battan							
Clay comp	onent less th	an in bas	sin bottom.							

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No _ ✓ _ Depth (inches): Water Table Present? Yes No _ ✓ _ Depth (inches): Saturation Present? Yes No _ ✓ _ Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No✓_
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks: Lacks evidence of seasonal saturation. Outside of basin.	

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Norwood Avenue Townhomes	т.	City/Cour	nty: Sacrame	ento County	Sampling Date: 4-22 & 5-1-21
Applicant/Owner: Norwood North LLC				State:CA	Sampling Point:03
Investigator(s): Jeff Glazner		Section,	Township, Ra	inge: <u>Del Paso Land Gra</u>	ant T9N R5E
Landform (hillslope, terrace, etc.): terrace					
Subregion (LRR): LRR C	_ Lat: <u>38.</u>	654047		Long: <u>-121.456218</u>	Datum: NAD83
Soil Map Unit Name: San Joaquin fine sandy loam, 0 to	3 percen	t slopes		NWI classific	cation:
Are climatic / hydrologic conditions on the site typical for this	s time of year	ar? Yes	✓_ No_	(If no, explain in R	Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly	disturbed	l? Are '	"Normal Circumstances" p	oresent? Yes No
Are Vegetation, Soil, or Hydrologyn	aturally pro	blematic ⁴	? (If ne	eeded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	sampl	ing point l	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Depressional area with evidence of season	0	w	the Sampled		No
VECETATION Lies scientific names of plan	te				
VEGETATION – Use scientific names of plan		Domina	nt Indicator	Dominance Test work	sheet:
<u>Tree Stratum</u> (Plot size:) 1	% Cover	Species	? Status	Number of Dominant S That Are OBL, FACW,	pecies or FAC:2 (A)
2.				Total Number of Domin	ant
3				Species Across All Stra	
4				Percent of Dominant Sp	pecies
Sapling/Shrub Stratum (Plot size:)		_= lotal (Jover	That Are OBL, FACW,	or FAC:100 (A/B)
1				Prevalence Index wor	
2					Multiply by:
3					x 1 =
4					x 2 =
5					x 3 =
Herb Stratum (Plot size:)		_= Total (Cover		x 4 = x 5 =
1. Festuca perennis	50	Х	FAC	· ·	(A) (B)
2. Hordeum marinum			FAC	Column Totals.	(), (),
3. Poa annua	10		FAC	Prevalence Index	= B/A =
4				Hydrophytic Vegetation	on Indicators:
5				✓ Dominance Test is	1
6				Prevalence Index is	
7				Morphological Ada	ptations ¹ (Provide supporting s or on a separate sheet)
8					phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	80	= Total (Cover		
1				¹ Indicators of hydric soi be present, unless distu	l and wetland hydrology must urbed or problematic.
2			Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes	s/_ No
Remarks:				.1.	
Grassy depression.					

Samn	lina	Point:	03
ani III)	m iCi	E OIIII.	03

Profile Desc	cription: (Describe	to the dept	h needed to docur	nent the	indicator	or confir	m the absence of ir	ndicators.)
Depth	Matrix			x Feature	es	. 2	· · ·	Domestic
(inches)	Color (moist)	%	Color (moist)	%		Loc ²		Remarks
0-12	10YR 4/1	_ <u>90</u>	5YR 4/6	10	<u> </u>	_M	clayey lo	
				01				
							_	
	×							
	?							-
	3			· ——				
	8							
	2							
¹ Type: C=C	oncentration, D=De	pletion, RM=	Reduced Matrix, CS	S=Covere	d or Coate	d Sand G	Grains. ² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applie	cable to all I	RRs, unless other	wise not	ted.)			Problematic Hydric Soils ³ :
Histoso			Sandy Red				1 cm Muck	
	pipedon (A2)		Stripped Ma		1 (54)		2 cm Muck	
Black H			Loamy Mud Loamy Gley				Reduced V	eruc (F18) t Material (TF2)
	en Sulfide (A4) d Layers (A5) (LRR	C)	Loamy Gley Depleted M				_	lain in Remarks)
_	uck (A9) (LRR D)	0)	Redox Dark				0 (Exp.	(a (aa.)
_	d Below Dark Surfac	ce (A11)	Depleted D		. ,			
	ark Surface (A12)	, ,	Redox Dep	ressions ((F8)		³ Indicators of hy	drophytic vegetation and
Sandy I	Mucky Mineral (S1)		Vernal Pool	s (F9)			•	ology must be present,
	Gleyed Matrix (S4)						unless distur	bed or problematic.
Restrictive	Layer (if present):							
Type:			_					
Depth (in	ches):						Hydric Soil Pres	sent? Yes No
Remarks:								
Clavey de	epression. Pror	ninent re	dox.					
Ciayey at	spression: 1 101		uox.					
HYDROLC	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one required	; check all that appl	y)			<u>Secondary</u>	Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			Water	Marks (B1) (Riverine)
High W	ater Table (A2)		✓ Biotic Crus	٠,				nent Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic In				Drift D	eposits (B3) (Riverine)
Water N	/larks (B1) (Nonrive	rine)	Hydrogen					age Patterns (B10)
Sedime	nt Deposits (B2) (No	onriverine)						eason Water Table (C2)
Drift De	posits (B3) (Nonrive	erine)	✓ Presence		,	•		sh Burrows (C8)
	Soil Cracks (B6)		Recent Iro			d Soils (C		ation Visible on Aerial Imagery (C9)
_	ion Visible on Aerial	• • •	, —				_	w Aquitard (D3)
	Stained Leaves (B9)		Other (Exp	olain in Re	emarks)		FAC-P	Neutral Test (D5)
Field Obse								
			lo <u>√</u> Depth (in					
Water Table			lo <u>√</u> Depth (in					
Saturation F		Yes 1	lo <u>√</u> Depth (in	ches):		_ Wet	tland Hydrology Pre	esent? Yes No
Describe Re	pillary fringe) corded Data (strean	n gauge, mo	nitoring well, aerial	photos, p	revious ins	pections)), if available:	
	`							
Remarks:								
Fyidence	of seasonal sa	turation						
LVIGCTICE	or seasonal sa	taration.						

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Norwood Avenue Townhomes		City/Co	unty:	Sacrame	nto County	Sampling Date: 4-22 & 5-1-21
						Sampling Point:04
						rant T9N R5E
Landform (hillslope, terrace, etc.): terrace						
						Datum: NAD83
Soil Map Unit Name: San Joaquin fine sandy loam, 0 to						
Are climatic / hydrologic conditions on the site typical for this						
						resent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology s						
Are Vegetation, Soil, or Hydrology n				•	eded, explain any answ	
SUMMARY OF FINDINGS - Attach site map	showing	samp	oling	point le	ocations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N Remarks:	∘ _ ✓			Sampled n a Wetlan	Area nd? Yes	No <u>√</u>
Upland comparison to data point 03. Locat	ed just o	utsic	de of	f basin o	on slope above we	etland.
VEGETATION – Use scientific names of plan	ts.					
<u>Tree Stratum</u> (Plot size:) 1	Absolute % Cover	Speci	ies?		Number of Dominant That Are OBL, FACW	Species
2					Total Number of Dom Species Across All St	2 (=)
4					Percent of Dominant S That Are OBL, FACW	Species /, or FAC:33.3 (A/B)
Sapling/Shrub Stratum (Plot size:)					Prevalence Index wo	orksheet:
1					Total % Cover of:	
2						x 1 =0
34.					FACW species 0	
5.					FAC species 30	x 3 =90
·-		= Tota	al Cov	er	FACU species 5	x 4 =20
Herb Stratum (Plot size:)					UPL species 50	
1. Festuca perennis				FAC	Column Totals:	85 (A) <u>360</u> (B)
2. Avena fatua		X		UPL UPL	Prevalence Inde	ex = B/A =4.2
3. Bromus diandrus		^		FACU	Hydrophytic Vegetat	
4. Aira caryophyllea 5					Dominance Test	
6					Prevalence Index	
7.					Morphological Ad	laptations1 (Provide supporting
8.						rks or on a separate sheet)
,	85				Problematic Hydr	ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:) 1						oil and wetland hydrology must sturbed or problematic.
2		= Tota			Hydrophytic Vegetation	
% Bare Ground in Herb Stratum15	of Biotic Ci	rust			Present? Y	'es No
Remarks:						
Grassy area in and out of basin.						

Sampling	Point:	04

	•	το tne depth n		ment the i		or contirm	the absence of indicators.)				
Depth (inches)	Matrix Color (moist)	%		% reature:	_Type [†]	Loc ²	Texture Rem	arks			
0-12	10YR 4/2						clayey lo				
0-12	101114/2	100									
							-				
	oncentration, D=Dep					ed Sand Gr	ains. ² Location: PL=Pore Lin				
Hydric Soil	Indicators: (Applic	able to all LRI	Rs, unless othe	rwise not	ed.)		Indicators for Problematic H	ydric Soils*:			
Histoso	I (A1)		Sandy Red				1 cm Muck (A9) (LRR C)				
	pipedon (A2)		Stripped M				2 cm Muck (A10) (LRR B)				
	listic (A3)		Loamy Mu	•			Reduced Vertic (F18)				
	en Sulfide (A4)	3)	Loamy Gle Depleted N		(F2)		Red Parent Material (TF2)Other (Explain in Remarks				
	d Layers (A5) (LRR (uck (A9) (LRR D)	٠)	Redox Dar	, ,	F6)		Other (Explain in Remarks	?)			
_	ed Below Dark Surfac	e (A11)	Depleted D								
	ark Surface (A12)	· (· · ·)	Redox Der				³ Indicators of hydrophytic vege	etation and			
	Mucky Mineral (S1)		Vernal Poo		•		wetland hydrology must be j				
	Gleyed Matrix (S4)						unless disturbed or problem	atic.			
Restrictive	Layer (if present):										
Type:			-								
Depth (in	nches):		_				Hydric Soil Present? Yes _	No <u></u>			
Remarks:											
1	ملم اميم منتجما الأم										
Just out (of basin and de	nse dark ci	ayey area.								
HYDROLC	OGY										
	drology Indicators:										
1 -	cators (minimum of c		neck all that ann	lv)			Secondary Indicators (2 c	or more required)			
	Water (A1)		Salt Crus				Water Marks (B1) (R				
	ater Table (A2)		Biotic Cru				Sediment Deposits (I				
Saturati				vertebrate	s (B13)		Drift Deposits (B3) (Riverine)				
	Marks (B1) (Nonriver	ine)	Hydrogen				Drainage Patterns (B10)				
	ent Deposits (B2) (No	•				Livina Roc	ots (C3) Dry-Season Water Ta				
	posits (B3) (Nonrive		Presence				Crayfish Burrows (C8				
	Soil Cracks (B6)		Recent Ir								
I —	ion Visible on Aerial	Imagery (B7)	Thin Muc				Shallow Aquitard (D3	• • • •			
_	Stained Leaves (B9)		Other (Ex		•		FAC-Neutral Test (D	•			
Field Obser					,						
l		es No	Depth (ir	nches):							
	Water Table Present? Yes No _✓ Depth (inches): Saturation Present? Yes No _✓ Depth (inches): Wet						and Hydrology Present? Yes _	No 🗸			
(includes ca	pillary fringe)										
Describe Re	ecorded Data (stream	gauge, monito	oring well, aerial	photos, pr	evious ins	spections),	if available:				
Remarks:											
Abovo	etland and area	of spaces	al caturation	า							
ADOVE W	cuallu allu alea	i vi seasuli	ai satui ati0i								
l .											

Appendix B Plant Species Observed

Appendix B: Norwood Avenue Plants Observed - April/May 2021

Taxon	Common Name	Wetland Status		
Achyrachaena mollis	Blow-wives	FAC		
Acmispon americanus	Spanish lotus	UPL		
Aira caryophyllea	Silver European hairgrass	FACU		
Amsinckia menziesii	Rancher's fireweed	UPL		
Arundo donax	Giant reed	FACW		
Avena fatua	Wild oat	UPL		
Brassica nigra	Black mustard	UPL		
Bromus diandrus	Ripgut grass	UPL		
Bromus hordeaceus	Soft chess	FACU		
Bromus madritensis	Foxtail brome	UPL		
Carduus pycnocephalus	Italian thistle	UPL		
Centaurea solstitialis	Yellow starthistle	UPL		
Centromadia fitchii	Fitch's spikeweed	FACU		
Chenopodium album	White pigweed	FACU		
Cichorium intybus	Chicory	FACU		
Convolvulus arvensis	Bindweed	UPL		
Croton setiger	Turkey mullein	UPL		
Cynodon dactylon	Bermudagrass	FACU		
Dittrichia graveolens	Stinkwort	UPL		
Elymus caput-medusae	Medusahead	UPL		
Epilobium brachycarpum	Summer cottonweed	UPL		
Erigeron canadensis	Canadian horseweed	FACU		
Erodium botrys	Broad-leaf filaree	FACU		
Erodium cicutarium	Red-stem filaree	UPL		
Festuca myuros	Rattail sixweeks grass	FACU		
Festuca perennis	Italian ryegrass	FAC		
Ficus carica	Common fig	FACU		
Geranium molle	Dove's-foot geranium	UPL		
Helminthotheca echioides	Bristly ox-tongue	FAC		
Hirschfeldia incana	Short-podded mustard	UPL		
Holocarpha virgata subsp. virgata	Virgate tarweed	UPL		
Hordeum marinum subsp. gussoneanum	Mediterranean barley	FAC		
Hordeum murinum	Wall barley	FACU		
Hypochaeris glabra	Smooth cat's-ear	UPL		
Juglans hindsii	Northern California black walnut	FAC		
Lactuca serriola	Prickly lettuce	FACU		
Leontodon saxatilis	Long-beaked hawkbit	FACU		
Lupinus bicolor	Miniature lupine	UPL		

Taxon	Common Name	Wetland Status		
Matricaria discoidea	Pineapple-weed	FACU		
Medicago polymorpha	California burclover	FACU		
Morus alba	White mulberry	FACU		
Olea europaea	Olive	UPL		
Plantago lanceolata	English plantain	FAC		
Poa annua	Annual bluegrass	FAC		
Polygonum aviculare	Common knotweed	FAC		
Populus fremontii	Fremont cottonwood	FAC		
Proboscidea louisianica subsp. louisianica	Common unicorn plant	FACU		
Prunus cerasifera	Cherry plum	UPL		
Quercus lobata	Valley oak	FACU		
Raphanus sativus	Wild radish	UPL		
Rumex crispus	Curly dock	FAC		
Sinapis alba	White mustard	FAC		
Sonchus oleraceus	Common sow-thistle	UPL		
Sorghum halepense	Johnsongrass	FACU		
Spergularia rubra	Ruby sand-spurrey	FAC		
Stellaria media	Common chickweed	FACU		
Trifolium hirtum	Rose clover	UPL		
Triteleia hyacinthina	White triteleia	FAC		
Vicia sativa	Common vetch	FACU		
Vicia villosa	Winter vetch	UPL		

Appendix C USACOE Aquatic Resources Spreadsheet

Norwood Avenue Townhomes Aquatic Resources Spreadsheet

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Waters_Name	State	Cowardin_Code	HGM_Code	Meas_Type	Amount	Units	Waters_Type	Latitude	Longitude	Local_Waterway
Seasonal Wetland 1	CALIFORNIA	PEM	DEPRESS	Area	0.006665	ACRE	ISOLATE	38.65387000	-121.45637400	Magpie Creek
Seasonal Wetland 2	CALIFORNIA	PEM	DEPRESS	Area	0.00501	ACRE	ISOLATE	38.65396200	-121.45630300	Magpie Creek
Seasonal Wetland 3	CALIFORNIA	PEM	DEPRESS	Area	0.005667	ACRE	ISOLATE	38.65404200	-121.45621800	Magpie Creek
Seasonal Wetland 4	CALIFORNIA	PEM	DEPRESS	Area	0.008882	ACRE	ISOLATE	38.65432000	-121.45624600	Magpie Creek