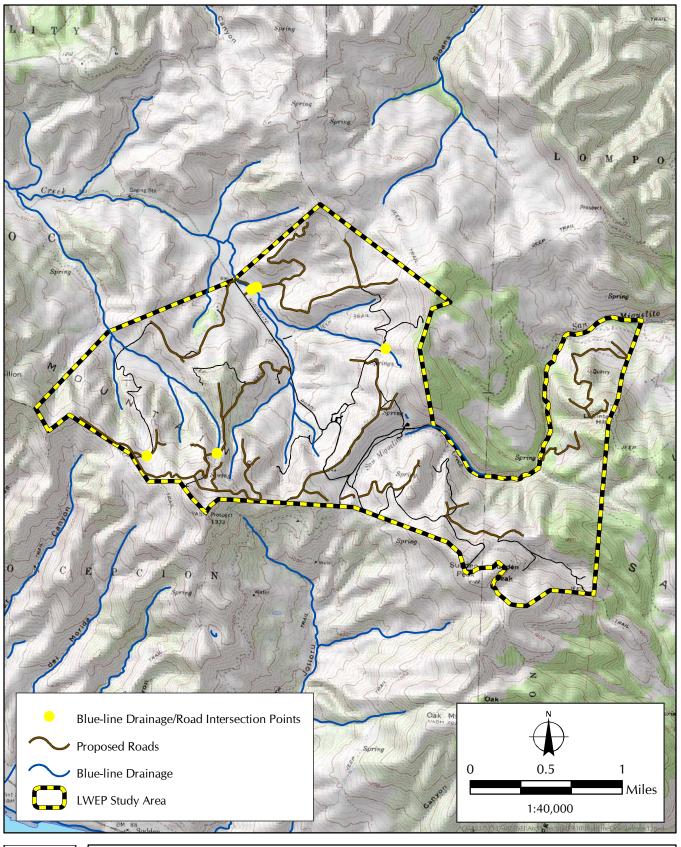
Appendix B. Biological Surveys and Analysis

- B.1 Bird and Plant Species Observed on the Project Site
- B.2 Biological Resources Report (February 2006)
- B.3 Results of Winter Bird Surveys (February 8, 2007)
- B.4 Final Winter Season Avian Pre-construction Survey Report
- B.5 Final Avian Spring Migration Pre-construction Survey Report
- B.6 Summary of NEXRAD Analysis
- B.7 Analysis of WSR-88D Data to Assess Nocturnal Bird Migration Over the Lompoc Wind Energy Project
- B.8 Memorandum for the Record (February 11, 2008)
- B.9 Memorandum for the Record (July 16, 2008)

These Appendices are on the CD-ROM located in the front pocket of this document.



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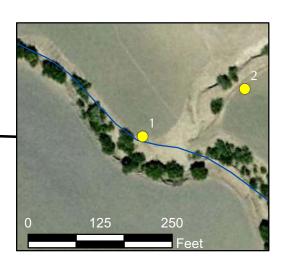
ATTACHMENT 4 Waters of the United States Survey Area

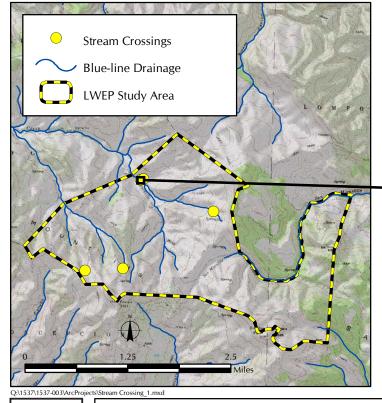


PHOTO 2 Looking South from Blue-line Feature Crossing 1



PHOTO 1 Looking North from Blue-line Feature Crossing 1





ATTACHMENT 5 Proposed Stream Line Crossing 1



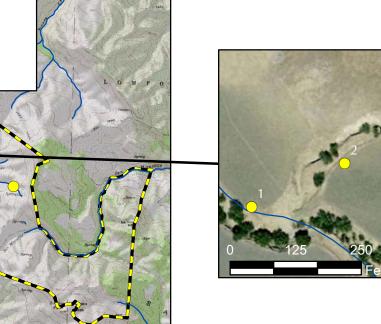


PHOTO 2 Looking South from Blue-line Feature Crossing 2



PHOTO 1 Looking North from Blue-line Feature Crossing 2

Miles





Stream Crossings

Blue-line Drainage

LWEP Study Area

ATTACHMENT 6 Proposed Stream Line Crossing 2

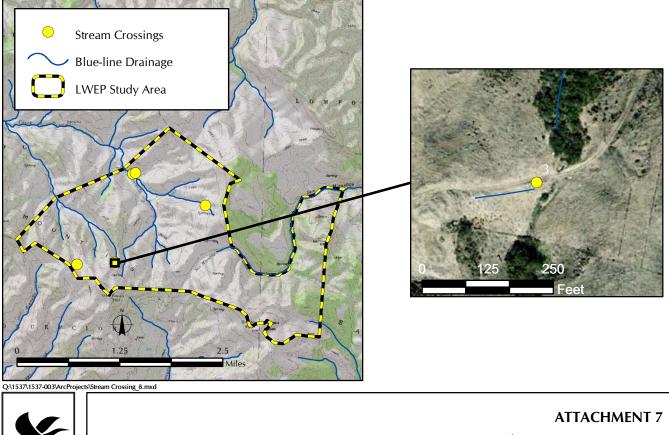




PHOTO 2 Looking West from Blue-line Feature Crossing 3



PHOTO 1 Looking East from Blue-line Feature Crossing 3



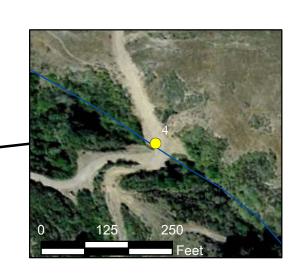
Proposed Stream Line Crossing 3

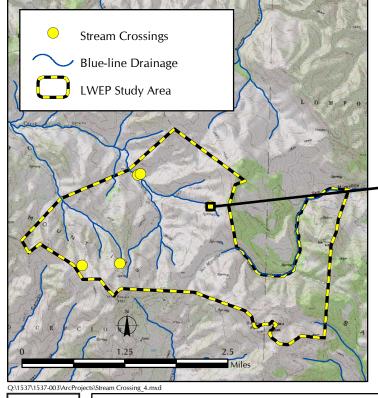


PHOTO 2 Looking West from Blue-line Feature Crossing 4



PHOTO 1 Looking East from Blue-line Feature Crossing 4





ATTACHMENT 8 Proposed Stream Line Crossing 4



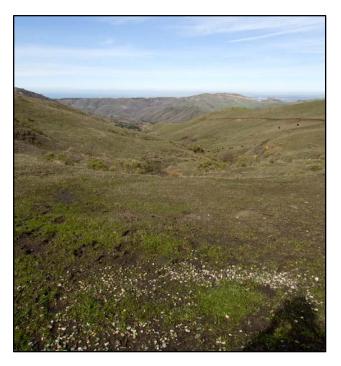
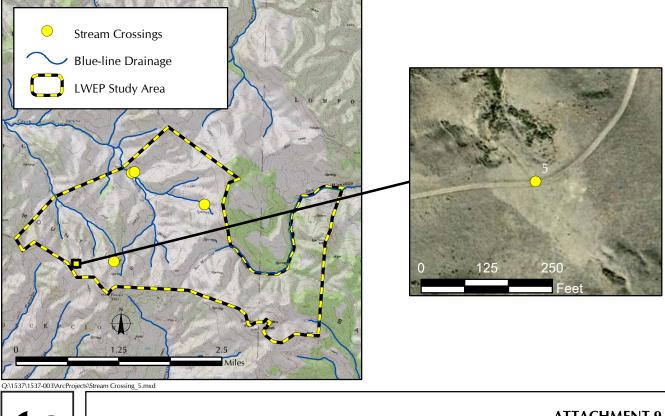




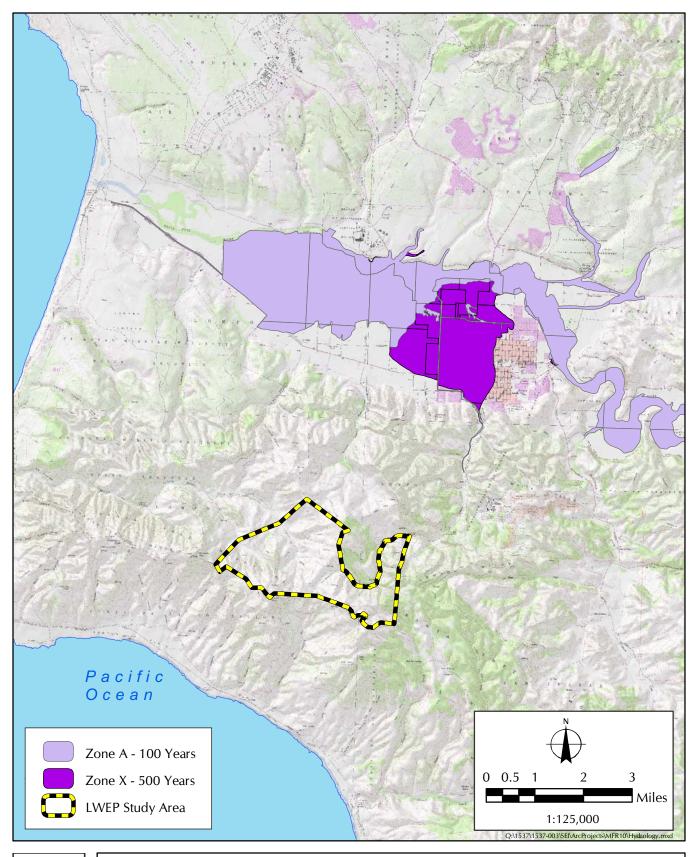


PHOTO 1 Looking East from Blue-line Feature Crossing 5



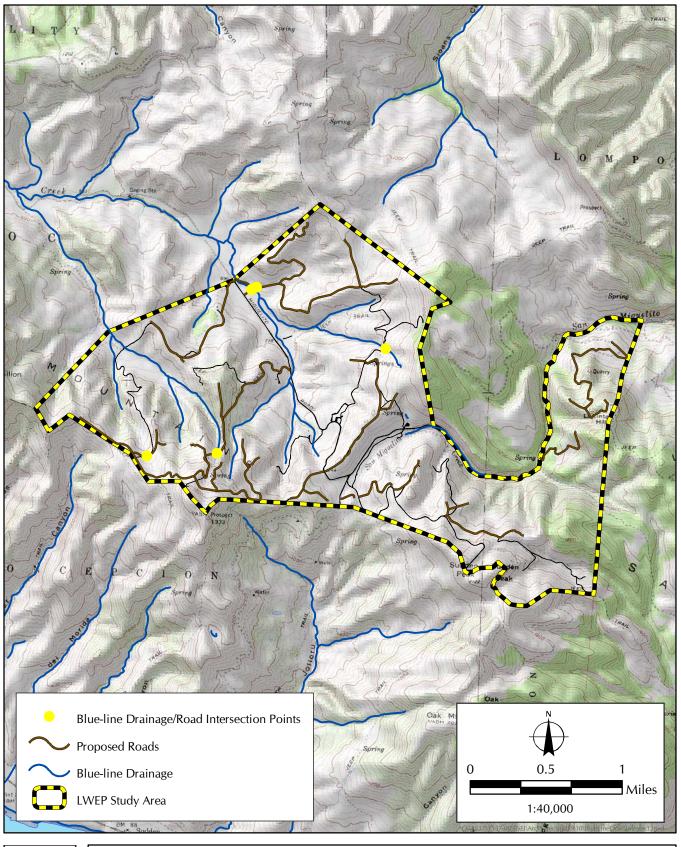
ATTACHMENT 9 Proposed Stream Line Crossing 5





ATTACHMENT 12 Flood Zone of the LWEP Study Area





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ATTACHMENT 13 Blue-line Drainage/Road Intersections

APPENDIX A DESCRIPTION OF AREAS SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT DATA SHEETS

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

Project/Site: <u>LWEP</u> Site <u>1</u> Applicant/Owner: <u>Acciona</u> Investigator: <u>ACK</u>		Date: <u>4/9/08</u> County: <u>5, Ba; 5a/a</u> State: <u>CA</u>
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community ID: Transect ID: Plot ID:

VEGETATION

Dominant Plant Species Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Unknown lily		9.		
2. Brass butters (Litch)		10.		
3. Curly Dock (Runex crispus)	· · · · · · · · · · · · · · · · · · ·	11	<u> </u>	
4. TUNEUS patens		12		
5. Courte bush (uncommon)		13		
6	• .	14:		
7	·	15		
8		16	<u> </u>	
· · · · · · · · · · · · · · · · · · ·				
Percent of Dominant Species that are OBL, FACW or	- EAC			
(excluding FAC-).				
- 1 177 1 .	anh.	1 4 8		
Remarks: Unknown Lily domin	cant in c	esteal daisage		
		in al ciral maye	-	

HYDROLOGY

Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: inundated Saturated in Upper 12 Inches Water Marks Drift Lines
Field Observations: Depth of Surface Water: $N/A D$ (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil: (in.)	Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)
Remarks: large swele that drains	towards coed through wheat

SOILS

Map Unit Name (Series and Phase): Taxonomy (Subgroup): _	Sardy loam - Miller	Drainage Class: Field Observations Confirm Mapped Type? Yes No
Profile Description: Depth (inches) Horizon	Matrix Color Mottle Colors (Munsell Moist) (Munsell Moist) See Back of Page	Mottle Abundance/ Texture, Concretions, Size/Contrast Structure, etc. 2 & F. Scet, 1600 Da, ta Shelts
Hydric Soil Indicators: Histic Epipedon Sulfidic Odor Aquic Moisture Reducing Cond Gleyed or Low-	Regime Organic St Listed on L litions Listed on N	is nic Content in Surface Layer in Sandy Soils reaking in Sandy Soils ocal Hydric Soils List lational Hydric Soils List lain in Remarks)
Remarks:		

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Cres No (Circle) Cres No Cres No	(Circle) Is this Sampling Point Within a Wetland? Yes No
Remarks:		
		Approved by HOUSACE 2/02

d by HQUSACE 3/92

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

Project/Site: \underline{LWEP} Site $\underline{2}$ Applicant/Owner: $\underline{Accisea}$ Investigator: $\underline{AcK}/.TAF$	Date: <u>4/18/08 ¥ 4/</u> 17,0 County: <u>Sente Barbara</u> State: <u>CA</u>	
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation Is the area a potential Problem Area? (If needed, explain on reverse.))? Yes No Yes No Yes No	Community ID: Transect ID: Plot ID:
/EGETATION		
Dominant Plant Species Stratum Indicator 1. Cotula 5 p. (Brass B. Has) 2. If In 3. Plantajo 3 p. 4. Polo poson 5. Coll Dock 6. Bromus 5 p. 7. Hardin pr. 8. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: I. May indicked for More Mar SCASON	9 10 11 12 13 13 14 15 16	
IYDROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge IVAerial Photographs Other No Recorded Data Available	Wetland Hydrology Indicato Primary Indicators: // Inundated // Saturated in Uppe Water Marks Drift Lines	ors: or 12 Inches (lower scuton)
Field Observations: $(lower section)$ Depth of Surface Water: 7 (in.)Depth to Free Water in Pit: $inn / a / a / a / a / a / a / a / a / a /$	Sediment Deposit	s in Wetlands 2 or more required): annels in Upper 12 Inches aves Data
Remarks: Construction to avoid	lover sect	tion of willard.

SOILS

Map Unit Name (Series and Phase): Taxonomy (Subgroup):				Drainage Class: Field Observations Confirm Mapped Type?	Yes No
Profile Description: Depth (inches) Horizon	(Munsell Moist) (M		Mottle Abundance Size/Contrast	el Texture, Concretio <u>Structure, etc.</u>	
Hydric Soil-Indicators: Histosol Histic Epipedon Sulfidic Odor Aqujc Moisture R Beducing Conditi Gleyed or Low-Cl	ons	Organic Stre Listed on Lo Listed on Na			
Remarks: Curren at U	t construct	tin plans	v:11 au	rid lowers	section

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Ves No (Circle) Ves No Ves No	Is this Sampling Point Within a Wetland?	(Circle)
Remarks:			

Approved by HQUSACE 3/92

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

Project/Site: $\angle VEP Sik 3$ Applicant/Owner: \underline{Accima} Investigator: \underline{Ack}		Date: $\frac{4}{9}/8 + \frac{4}{10}$ County: Santa La Asra State: CA	08
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community ID: Transect ID: Plot ID:	

VEGETATION

Dominant Plant Species	Stratum Indicator	Dominant Plant Species	Stratum	Indicator
1. Arroyo Willow		9		
2. Juncus patens		10_		
3. 1.14 5%.		11		
4. Black perry		12		
5. Conste Besh		13		
6. Maintage	- <u> </u>	14		•
7. Poison Oak		15	· ·	
8. non-native grasses	•	16		·
Percent of Dominant Species that are OE (excluding FAC-).				-
Remarks: Arrogo Writh	Tow deminate	ts the opparian	Zone	
	· · · · · · · · · · · · · · · · · · ·	V	~75	To cont.

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HYDROLOGY

Recorded Data (Describe in Remarks):Stream, Lake, or Tide GaugeAerial PhotographsOtherNo Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines
Field Observations: $i \perp 3 \cdot 4$ Depth of Surface Water: $0 \circ 0 \cdot 2 \cdot A$ Depth to Free Water in Pit: $0 \cdot 24 \cdot 37 \cdot 4 \cdot c^{2}$ Depth to Saturated Soil: $0 \cdot 6 \cdot A \cdot 5 \cdot c \cdot 4 \cdot c^{2}$	 Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): Taxonomy (Subgroup):	Histol	Drainage Class: Field Observations Confirm Mapped Type? Yes No	
Profile Description: Depth (inches) Horizon	(Munsell Moist) (Munsell Moist) Size	Actile Abundance/ Texture, Concretions, Structure, etc. 2 m Stock 1600 Field Data Shout	
Hydric Soil Indicators: Histosol in So Histic Epipedon Sulfidic Odor Aquic Moisture R K Reducing Condit L Gleyed or Low-C	Listed on Nation	nal Hydric Soils List	
Remarks: Soil ? Rlow A seeply	ducing periods of cain burg that is Ed by surranding mills.de	dy loar in apparent slow suitare Water appears to originate inilisides, the characteristics of the so as weep water for long ferriads after	Toin Fall

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	No (Circle) Tes No Tes No No	(Circle) Is this Sampling Point Within a Wetland?
Remarks:		

Approved by HQUSACE 3/92

APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: CaliforniaCounty/parish/borough: Santa Barbara CountyCity: LompocCenter coordinates of site (lat/long in degree decimal format):Lat.° Pick List, Long.° Pick List.Universal Transverse Mercator:UTM Zone 10 727904/3829286

Name of nearest waterbody: Pacific Ocean

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Pacific Ocean Name of watershed or Hydrologic Unit Code (HUC): 18060013

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

- a. Indicate presence of waters of U.S. in review area (check all that apply): ¹
 - TNWs, including territorial seas
 - Wetlands adjacent to TNWs
 - Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
 - Non-RPWs that flow directly or indirectly into TNWs
 - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
 - Impoundments of jurisdictional waters

Isolated (interstate or intrastate) waters, including isolated wetlands

- b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or acres.
 - Wetlands: 0.188 acres.
- **c. Limits (boundaries) of jurisdiction** based on: **1987 Delineation Manual** Elevation of established OHWM (if known):

2. Non-regulated waters/wetlands (check if applicable):³

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

 $^{^{2}}$ For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW:

Summarize rationale supporting determination:

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

 (i) General Area Conditions: Watershed size: 375.2 square miles Drainage area: 7552.4 acres Average annual rainfall: 18.50 inches Average annual snowfall: 0.0 inches

(ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>

 ☐ Tributary flows directly into TNW.
 ☑ Tributary flows through 2 tributaries before entering TNW.

Project waters are 2-5 river miles from TNW.
Project waters are 1 (or less) river miles from RPW.
Project waters are 2-5 aerial (straight) miles from TNW.
Project waters are 1 (or less) aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵: Tributary flows into San Miguelito Creek, which flows into the Santa Ynez River, which then flows into the Pacific Ocean.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

Tributary stream order, if known:

.

(b)	General Tributary Characteristics (check all that apply): Tributary is: \[\] Natural \[\] Artificial (man-made). Explain: \[\] Manipulated (man-altered). Explain:
	Tributary properties with respect to top of bank (estimate): Average width: 2 feet Average depth: 1 feet Average side slopes: 4:1 (or greater).
	Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain: Sandy Loam with streaking of gleyed hydric soils.
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Higly eroding due to cattle presence. Presence of run/riffle/pool complexes. Explain: Tributary geometry: Relatively straight Tributary gradient (approximate average slope): 2 %
(c)	<u>Flow:</u> Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 6-10 Describe flow regime: Area subject to winter rain events. Other information on duration and volume:
	Surface flow is: Discrete. Characteristics: The wetland area meanderinly drains into San Miguelito Creek.
	Subsurface flow: No. Explain findings: 18 inch test pits uncovered no water.
	Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list): Discontinuous OHWM. ⁷ Explain:
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: oil or scum line along shore objects fine shell or debris deposits (foreshore) physical markings/characteristics tidal gauges other (list):
(iii) Ch	emical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Entire area is heavily used by cattle and water quality reflects this. Water color is a murky brown.. Identify specific pollutants, if known:

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.

(iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width): \boxtimes
- Wetland fringe. Characteristics:
- \boxtimes Habitat for:

Federally Listed species. Explain findings:

- Fish/spawn areas. Explain findings:
- Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: Western Toads and Pacific Treefrogs (tadpoles and adults) were present further downstream of the impact area.

Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW 2.

(i) Physical Characteristics:

- General Wetland Characteristics: (a)
 - Properties:

Wetland size:0.233 acres Wetland type. Explain:Seasonal. Wetland quality. Explain: Highly eroded due to cattle presence. Project wetlands cross or serve as state boundaries. Explain:

(b) General Flow Relationship with Non-TNW:

Flow is: Intermittent flow. Explain: Site experiences winter rain events.

Surface flow is: Discrete

Characteristics: Wetland meanderingly drains into San Miguelito Creek.

Subsurface flow: No. Explain findings: Soil test pits uncovered no water. Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

- Directly abutting
- Not directly abutting

Discrete wetland hydrologic connection. Explain: The wetland area is a very small channel that form into a large swale that reforms into an incised channel which then flows into San Miguelito creek (RPW)...

Ecological connection. Explain:

Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **2-5** river miles from TNW. Project waters are 2-5 aerial (straight) miles from TNW.

Flow is from: Wetland to navigable waters.

Estimate approximate location of wetland as within the 100 - 500-year floodplain.

4.5 miles from the 500-year floodplain

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Water color is a murky brown and water quality reflects the heavy cattle use. Identify specific pollutants, if known:

(iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width): Average width of riparian vegetation is 15 feet.
- Vegetation type/percent cover. Explain:Wetland is dominated by Arroyo Willows.
- Habitat for:

Federally Listed species. Explain findings:

- Fish/spawn areas. Explain findings:
- Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings:Western Toads and Pacific Treefrogs (tadpoles and adults) were present downstream of the impacted wetland area...

Characteristics of all wetlands adjacent to the tributary (if any) 3.

All wetland(s) being considered in the cumulative analysis: 1

Approximately (0.233) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Summarize overall biological, chemical and physical functions being performed:

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: The wetland flows into San Miguelito creek (RPW), which flows into the Santa Ynez river and then into the Pacific Ocean (TNW).

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

- TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:
 TNWs: linear feet width (ft), Or, acres.
 Wetlands adjacent to TNWs: acres.
- 2. <u>RPWs that flow directly or indirectly into TNWs.</u>
 - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
 - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

acres.

- Tributary waters: linear feet width (ft).
- Other non-wetland waters:
 - Identify type(s) of waters:

3. Non-RPWs⁸ that flow directly or indirectly into TNWs.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres.
 - Identify type(s) of waters:

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.⁹

- As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
 - Demonstrate that impoundment was created from "waters of the U.S.," or
 - Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
- Interstate isolated waters. Explain:
- Other factors. Explain:

⁸See Footnote # 3.

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.

Identify water body and summarize rationale supporting determination:

Provide	e estimates	for	juris	dictional	waters i	n the	review	area	(check a	ll that a	apply):

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters: .

Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers
Wetland Delineation Manual and/or appropriate Regional Supplements.

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based <u>solely</u> on the "Migratory Bird Rule" (MBR).



Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
 Lakes/ponds: acres.
 Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres.

SECTION IV: DATA SOURCES.

A.	SUPI	PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked
	and	requested, appropriately reference sources below):
	\boxtimes	Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
	\boxtimes	Data sheets prepared/submitted by or on behalf of the applicant/consultant.
		Office concurs with data sheets/delineation report.
		Office does not concur with data sheets/delineation report.
	\boxtimes	Data sheets prepared by the Corps: .
		Corps navigable waters' study:
		U.S. Geological Survey Hydrologic Atlas:
		USGS NHD data.
	_	USGS 8 and 12 digit HUC maps.
	\boxtimes	U.S. Geological Survey map(s). Cite scale & quad name:1:24,000 Surf, Lompoc, Tranquilon Mtn., Lompoc Hills
		USDA Natural Resources Conservation Service Soil Survey. Citation:
	\bowtie	National wetlands inventory map(s). Cite name:Tranquillon Mtn
		State/Local wetland inventory map(s):
		FEMA/FIRM maps: .
		100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	\boxtimes	Photographs: Aerial (Name & Date):0.3 Meter Orthorectified, 2004, Obtained from GlobeXplore, Inc
	_	or Other (Name & Date):
		Previous determination(s). File no. and date of response letter:
		Applicable/supporting case law:
		Applicable/supporting scientific literature:
		Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: Although 3 wetlands were delineated, current construction plans will only impact one of these wetlands, which account for 0.233 acre of waters. These wetlands do eventually drain into the San Miguelito creek which is an RPW. San Miguelito flows into the Santa Ynez River which then flows into the Pacific Ocean. Hence, this wetland is jurisdictional.

APPENDIX B DESCRIPTION OF AREAS SUBJECT TO SECTION 1600 OF THE STATE FISH AND GAME CODE DATA SHEETS

SECTION 1600 FISH AND GAME CODE FIELD ASSESSMENT SHEET

Project Name and Site No.	Projec	Project No.			
WEP Site		7-003			
Date: 4 9 08 Time start:	100				
Surveyors:					
ACK					
Photo data		Veather data			
Photo No.: 1-5	Air temperature: 59°F				
Taken from (direction):	Cloud cover (%)	1			
1) W-7E, 2) S-7N, 3) E-7W, 4/N-7S	O% Chem	trails present			
Description of photo:	Precipitation: [] yes [] r	10			
5) Channel	Estimated wind speed:				
	5-10% Do.	sty			
	Physical Characteristics				
Adjacent land uses (e.g., residential, co					
North: Vuderal - Cattle grazing East: " "					
South.	West: " `'				
Slope %: Southern Sloping 2-3% Aspect: Southern	Soil description	I.			
Aspect: Southarn	38 Sandy 10 138 1042 3	ann			
GPS location: N 34'34.406 W 120° 31.	138 1042 3	5/4			
Previous/existing disturbances, both na	ural and anthropogenic (de	scribe and depict on aerial):			
Extensive grazing, mixture of 1					
	•				
Evidence of Aquatic or R	oarian Resources (take ph	noto and depict on aerial)			
Is there a well-defined stream, bed, bar					
Classify stream as follows: [1] epheme		nnial			
Presence of aquatic wildlife? [] yes [·			
Obvious wildlife movement corridor? [yes [🖓] no	·			
Width of stream from top of streambed:					
Width of riparian vegetation:					
Cross-section sketch of stream section	and vegetation:				
	° A- a	the depression			
	gen	in expression			
	o funi	uls forward upper section			
· · · ·					
Shelving:] yes [x] no	Sediment depositio	n: [] yes [£í no			
Debris lines: [] yes [] no	Presence of defined				
OHVM: []yes [_] no	Riparian vegetation				
Water marks: [] yes [X] no	Flowing or standing				
	i towing of standing	water. []yes K[110			
Notes: ontarn lilly, juncus pulle	2				
\mathcal{O}					

		Vegetation Communit	les		
Plant communities	s within and adjacent	to crossings:		· · · · · · · · · · · · · · · · · · ·	-
Species	% cover	Terrestrial upland	Aquatic	Riparian	
ustran lily	80%0			1	-
Brass billions	65-20	V			
Willy dock	65%				-
Junus patens	65%	V			_
Coyste Doss	45%	V			_
			-		
	-				
					-
		· · · ·			_
				·	-
		· · · ·			-
		B.B.7PB	-	· · · · · · · · · · · · · · · · · · ·	
		Wildlife	Drimony Llobitet		-
Species	Sign*	Terrestrial upland	Primary Habitat Aquatic	Riparian	_
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14 coulses all	0				+ (c)
O. LUIL	10 11 D				- Vori
ILLA TAKIA PAW					+-
· ·	· .		· · · · · · · · · · · · · · · · · · ·		-
· · ·					
· · · · · · · · · · · · · · · · · · ·			· · ·		
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· · · · · · · · · · · · · · · · · · ·			· · ·		
· · · · ·			· · ·		

* B = burrow; C = carcass; Fe = feathers; Fu = fur; N = nest; O = observed; S = scat; T = tracks; V = vocalization

Pit#	Horizon/degth	Matrix Color Mottle Color Montana	
1	0-0.25 Az 0.25-18 B	104R 314 NA MA 54R 312	Sandy Idam Pedogeneris
2	0-, 25A, ,25-186	104R 3/4 104R 5/6 (5%)	Sandy loan Pedosenesis
3	0:-0.25 AD 125-18B	10 YR 314 5YR 312 MA -	Sandy loan Pelogorosis
4	0-,25A, ,25-18b	104R 314 NIA - 54R 312	1 (
5	0-,25A, 25-18B	104R 3/4 NIA - 54R 3/2	11
6	0-18B	10 YR 412 NIA -	11

* No suitace or sub surface inundation

SECTION 1600 FISH AND GAME CODE FIELD ASSESSMENT SHEET

	ect Name a					Project No.		
Date	LWEP		imo start: A	<u>e</u>		1537-003		
	Surveyors:							
	CK + JK	oto data		1		Weather data		
Dhot	o No.:	olo uala .		Airtompor	oturo: F			
	n from (dire	notion).	liner	Air temper		00°F		
I I ANG		3) 500	4+5)57N			0%		
	ription of p	<u>sjær</u>	1753 3710	Precipitatio				
0000	inpaon or p	1010.	•	Estimated				
		5-10 Musty						
				Physical C		,		
Adia	cent land us	ses (e.a., re	sidential, co					
	Adjacent land uses (e.g., residential, commercial, c							
Sout	South: rideral							
Slope	= %: 0-1 V	eru .~	······································		West: Soil des	scription:		
Aspe	ct: South	st online			See ba			
GPS	location:	Center wit	34"34.571 W	1703 30.901				
Previ	GPS location: Center שיזיאיאיאיאיא און און און איזיאין און איזיאין און איזיאין איזיאין איזיאיאיא איז איז איז איז איז איז איז א							
	Cattle 9							
	curic. j)	• •	• .				
	Evidence of Aquatic or Riparian Resources (take photo and depict on aerial)							
Is the	ere a well-d	efined strea	ım, bed, bar	nk? [🖌] yes i	(fill out se	ection below) [] no		
Class	sify stream	as follows:	[] epheme	ral [🖓 inter	mittent [[K] perennial		
Prese	ence of aqu	atic wildlife	? [🔀] yes [] no To-	to / Fro.	ys a trappoles		
	ous wildlife	movement	corridor ? [I yes 📈 n	о	<i>a i</i>		
	i of stream ⊮∽_ N/A	from top of	streambed:	pot 1/2	cuia 1	$(av_3 = 7)$		
1AC AL								
	inknor!	illy 7f	eet.	* Conkninn	Villy 1	mon not be riparia - coned be facultative		
Cros	s-section sl	ketch of stre	am section	and vegetat	tion:	may not be riparia-coned be facultative		
				low	~			
U	21			1011				
					12.5A			
	11.16	-			5 /			
gently	stoping ba	m		-	\sim	CONTRACTOR		
				in.	cised Cl	hummel, defeared bed /bonk		
	•					•		
Shelv		× 4 ×	no			leposition: [K] yes [] no		
	is lines: [no			of defined bed and bank: [A yes [] no		
			no			egetation: # [2] yes (note below) []		
	·····	<]yes []	no	FIC	owing or s	standing water: [$m{k}$] yes [] no		
Notes								
Ann	inm till							
	J							

ŧ.,

· · · ·		Vegetation Communit	ties	
Plant communitie	es within and adjacent	to crossings:		
Species	% cover	Terrestrial upland	Aquatic	Riparian
Bross Suttens	5%			
when lity	50-70%		·	
Plantago sp	15 %			
Roly peson	6512			
Corty Dork	5 %			
Brocons Spi	50%			
Horderm son.	4578			(
· · · · · · · · · · · · · · · · · · ·				
		•		
		· · .		

		Wildlife		
			Primary Habitat	
Species	Sign*	Terrestrial upland	Aquatic	Riparian
Coast Gater Smillo	0	?		
CAcrond squart	8			
Medosla K .	0			
Vistor trad tals	10			
Perdace, rullate	15 0			
	·			
•				
				· .

* B = burrow; C = carcass; Fe = feathers; Fu = fur; N = nest; O = observed; S = scat; T = tracks; V = vocalization

Pit#	HorizonlDgi	14 Matix Color	Matthe Color M	Tottle Abudance	texture
(Bles such	0-18A	- 104R 3/2	57R 3/3	102/	Sady loam
2	;/	104R 3/2	5YR 3/3	10°/1	11
3	11	104R 3/3			1/
4	11	104R 4/3	10YR4/6	15%0	1,
5	/1	104R 312	54R 3/3	5%	*/
6	1(1048 3/2	57R 7/3	(5%)	11
Clower section) saturated O-18 A	527. 2.5 YR 2.5/1	54R313	10%	11
8	j 1	Dry 104R 317	54R 3/3	15%	11
	11	10 YR 3/2	57R 313	10%0	17
9 10	11	104R 3/2	54R 3/3	5 lo	i,
10	11	104R 312	STR 3/3	5%	1,
12	11	10418 3/2	57R 3/3 2,57R 2,573		11
13	21	104R 3/3	54R3/3	100/0	11

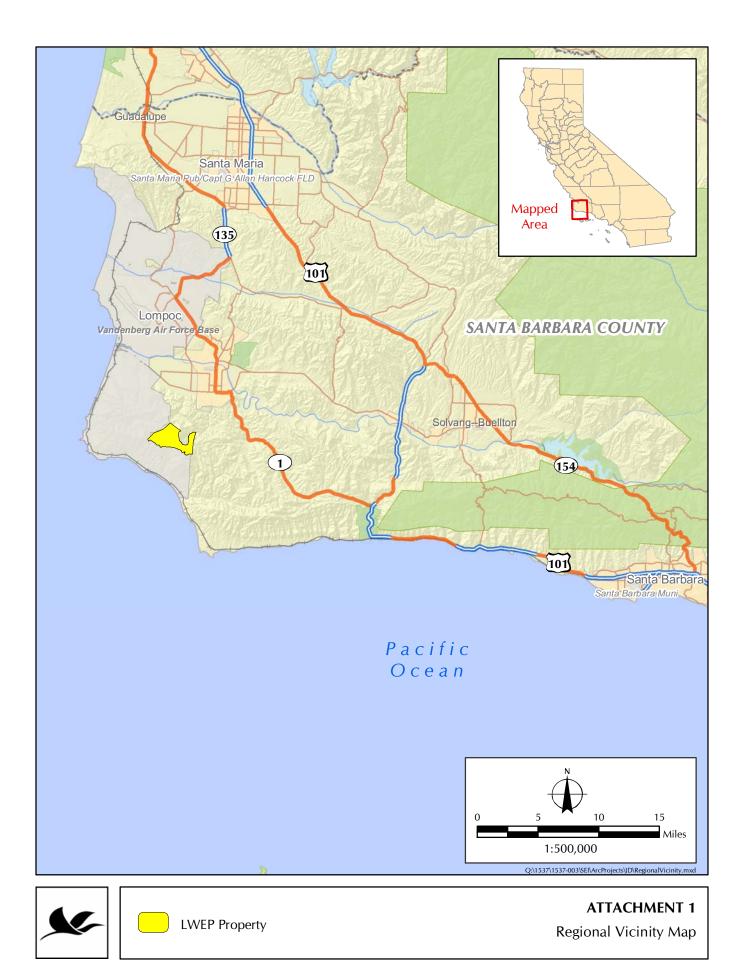
SECTION 1600 FISH AND GAME CODE FIELD ASSESSMENT SHEET

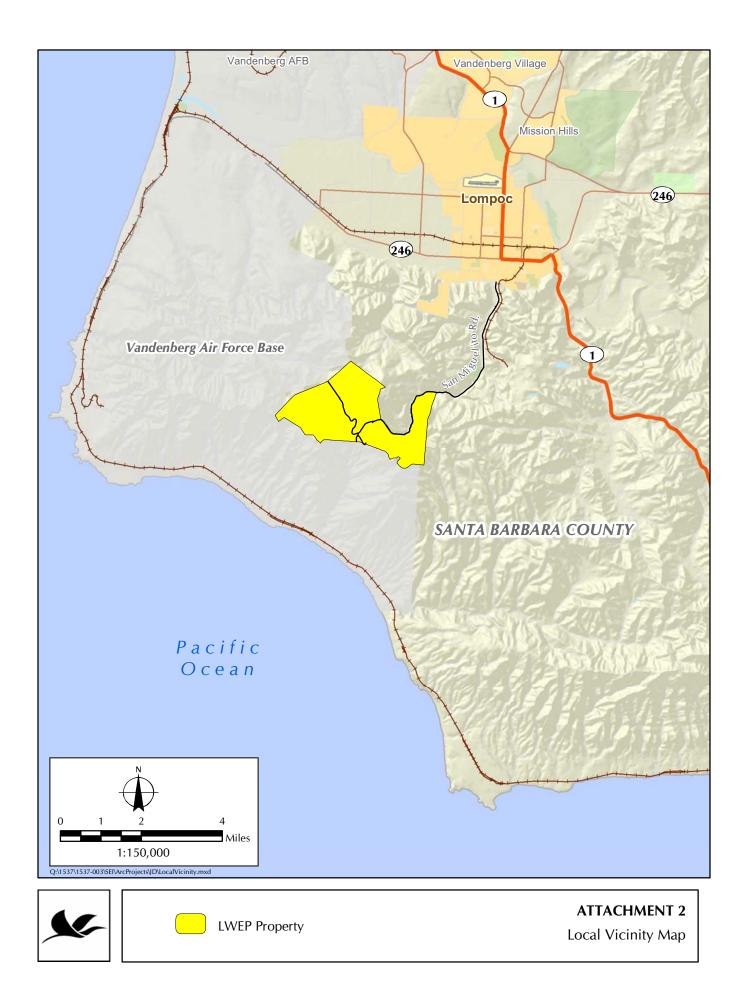
	10							
Project Name and Site No.		Project No. 1637-003						
Date: 4/9/08 Time start: 0900								
ACK								
Photo data	· · ·	Weather data						
Photo No.: 1-3	Air temperature: 59° F							
Taken from (direction):	Cloud cover (%)							
USON DEON JNOS 4) NOE S) Caler	<u> </u>	chemtrails present						
Description of photo:	Precipitation: [] yes [] no							
e) Center 27) Center 3	Estimated wind speed: 5-i0meh gosty							
* transect numbers coinside w/ pit transects								
Adiacont land uses (a.g. residential co	Physical Characteristic	<u>55</u>						
Adjacent land uses (e.g., residential, co North: ruderal - Cattle grazing	East: "							
South: voderal - Cattle grazing	West: "							
Slope %: 3-4% varying	Soil descrip	tion [.]						
Aspect: SE	Sandy l							
GPS location: N 34°34.452' W120°31.106								
Previous/existing disturbances, both natural and anthropogenic (describe and depict on aerial):								
High Cattle usage, trampling, grazing, write and excrement, sedimentation, crosion/slight								
		Channelization						
Exotic plants such as non-native grass	1	2 2						
the second s		photo and depict on aerial)						
Is there a well-defined stream, bed, ban								
Classify stream as follows: [X] epheme		erennial Subsorface seeping						
Presence of aquatic wildlife? [] yes [>								
Obvious wildlife movement corridor? [yes [X] no 🗶 only !	or cottle						
Width of stream from top of streambed:	(Gom) 14 Mcho	nla = no water present on surface						
Orn) n a 20m) na 40m) M Width of riparian vegetation:	even i even	The no bear from to so the						
Width of riparian vegetation: cm) 25.54 zom) 17-4 40n) 10 ft 60m) Receive n/a n/a = no vegetation present								
Cross-section sketch of stream section and vegetation:								
	0							
ombr 20 m	40m	60m						
- deep channel - widens alifie -lots of Neptation	Smelther edges	widing out						
		· · ·						
Shelving: [] yes [2] no	Sediment depo	sition: [] yes [<] no						
Debris lines: [] yes [X] no		fined bed and bank: [X] yes [] no						
OHWM: []yes [>]no	Riparian vegeta							
Water marks: []yes []no	Flowing or stan							
Notes:								
Riparian Vesetation: Arrayo Willow, blackberry, poison oak, juncus pattens Coyote brush, plaintago, unknown lilly								
control of the providence of the second seco								
	· 、							

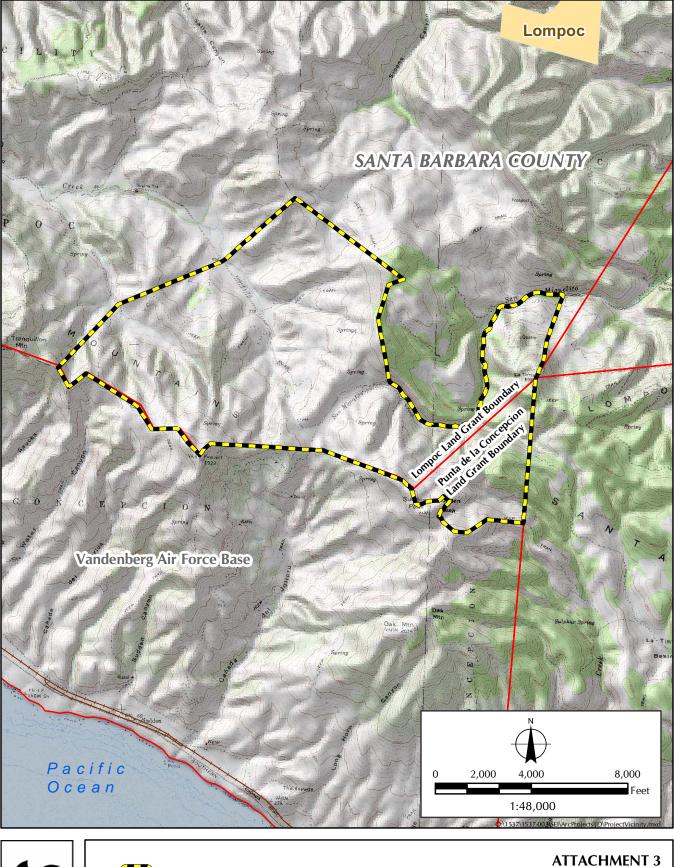
	within and adjacent to	egetation Communit		
Plant communities	e grassland and	aunt Rinarian	vez commity in	Min (Sue species Riparian
Species	% cover	Terrestrial upland	Aquatic /	Riparian "
Asson Villow	75% in Rizone			
Junus patens	5%0			· ·
entrun 1.14	10%0	V-cdses		· i/
Blackberton	10%			
Carde Dich	5%		······································	
Plantais	10%			
Prison Oak	5%			
	95% upland			
non-northe grapped	15 10 Mad			
		· · · · · · · · · · · · · · · · · · ·		
		•		
	·			
		,		
· · ·		Wildlife	Primary Habitat	
	Sign*			
Species		Wildlife	Primary Habitat	
Species	Sign*	Wildlife	Primary Habitat	
Species Fortes out tore Pastones	Sign*	Wildlife Terrestrial upland	Primary Habitat	
Species Furkey withic Pastines - hormed furth	Sign* O O O	Wildlife Terrestrial upland	Primary Habitat	
Species Fucker untrac Pastrines -hormed lacki -volkano-	Sign* O O O O O	Wildlife Terrestrial upland	Primary Habitat	
Species Fucker untric Partines - hormed lack - unknown - scrub an	Sign* 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat	Riparian
Species Forkey withic Pastrines - hormed larki - unknown - Scrub janj Bottas Packat Goglan	Sign* 0 0 0 0 0 0 0 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat	Riparian
Species Forkey withic Pastrines -bornd lacki -vikinon -scrub an	Sign* 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat Aquatic	Riparian
Species Forkey withic Pastrines - hormed larki - unknown - Scrub janj Bottas Packat Goglan	Sign* 0 0 0 0 0 0 0 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat Aquatic	Riparian
Species Species Species Pastines - hormed laiki - hormed	Sign* 0 0 0 0 0 0 0 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat Aquatic	Riparian
Species Further unthic Partienes - hormed larki - unknown - Scive janj Bottas Parkit Gostun	Sign* 0 0 0 0 0 0 0 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat Aquatic	Riparian
Species Further unthic Partienes - hormed larki - unknown - Scive janj Bottas Parkit Gostun	Sign* 0 0 0 0 0 0 0 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat Aquatic	Riparian
Species Further unthic Partienes - hormed larki - unknown - Scive janj Bottas Parkit Gostun	Sign* 0 0 0 0 0 0 0 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat Aquatic	Riparian
Species Turkey untric Pastures - hormed larki - waknen - Scive janj Bottas Packet Costa	Sign* 0 0 0 0 0 0 0 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat Aquatic	Riparian
Species Further unthic Partienes - hormed larki - unknown - Scive janj Bottas Parkit Gostun	Sign* 0 0 0 0 0 0 0 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat Aquatic	Riparian
Species Further unthic Pastines - hormed lacki - unknow - Scrub janj Bottas Packet Gestur	Sign* 0 0 0 0 0 0 0 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat Aquatic	Riparian
Species Forkey withic Pastrines - hormed larki - unknown - Scrub janj Bottas Packat Goglan	Sign* 0 0 0 0 0 0 0 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat Aquatic	Riparian
Species Further unthic Pastines - hormed lacki - unknow - Scrub janj Bottas Packet Gestur	Sign* 0 0 0 0 0 0 0 0 0 0 0 0 0	Wildlife Terrestrial upland	Primary Habitat Aquatic	Riparian

* B = burrow; C = carcass; Fe = feathers; Fu = fur; N = nest; O = observed; S = scat; T = tracks; V = vocalization

Pit#	Horizon/Ppt	Matix Color	Mottle color	MoAle abunde	ni Texture
$l(o_n)$	0-18 B	2.54311			Saly loan (chusion The high noisture
Z (20m)	05A, 15-18 B	104R 3/4			moistin lover portion of p. st
3 (Yon)	0:-1.0 A. 1.0-18 B	2.5-4R 3/1			Sondy loam
4(60m)	0-18B	104R 3/2			11 (1.5 Ft to dry soil)



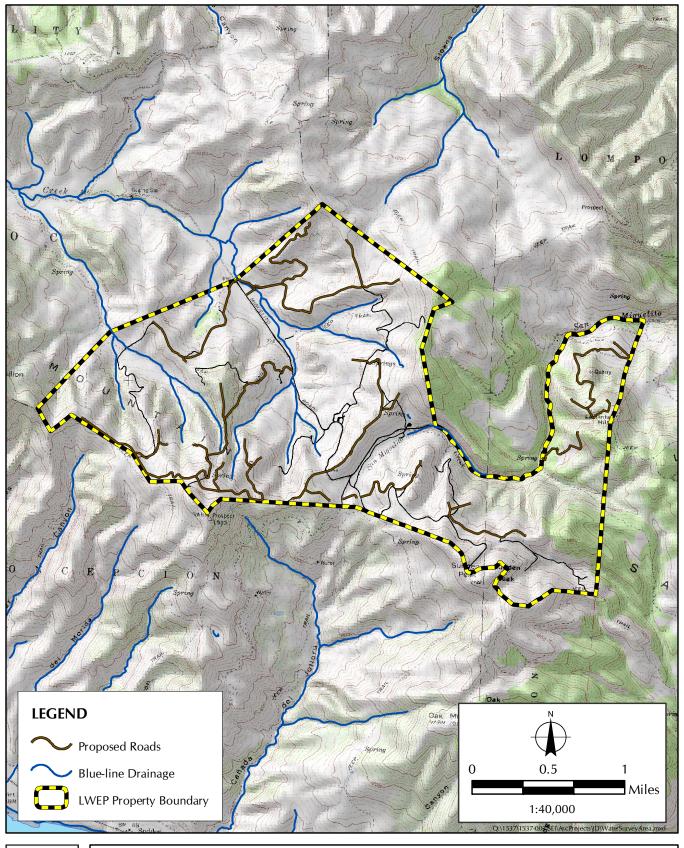




S

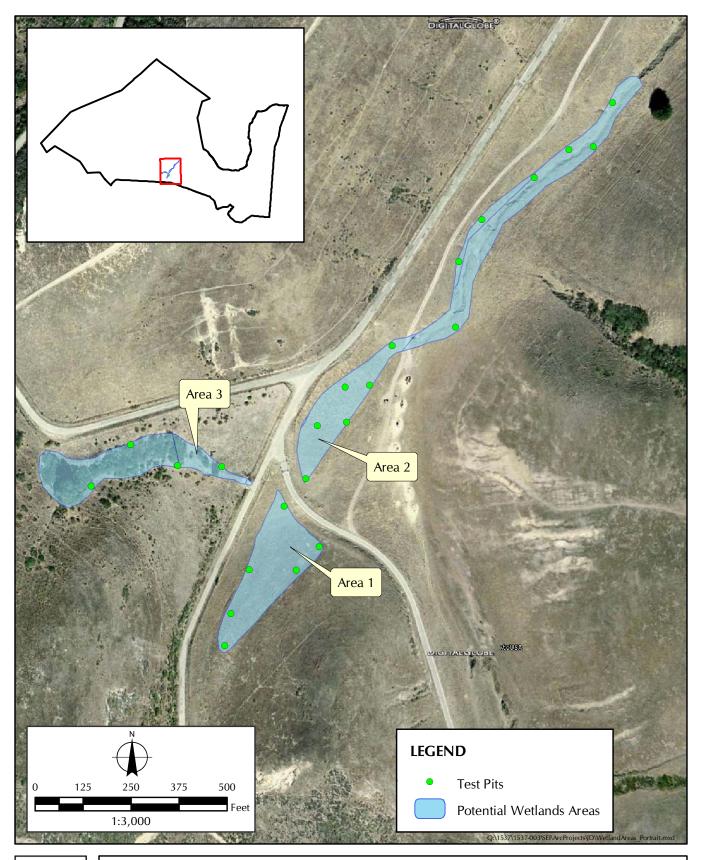
LWEP Property Boundary

Project Site Map



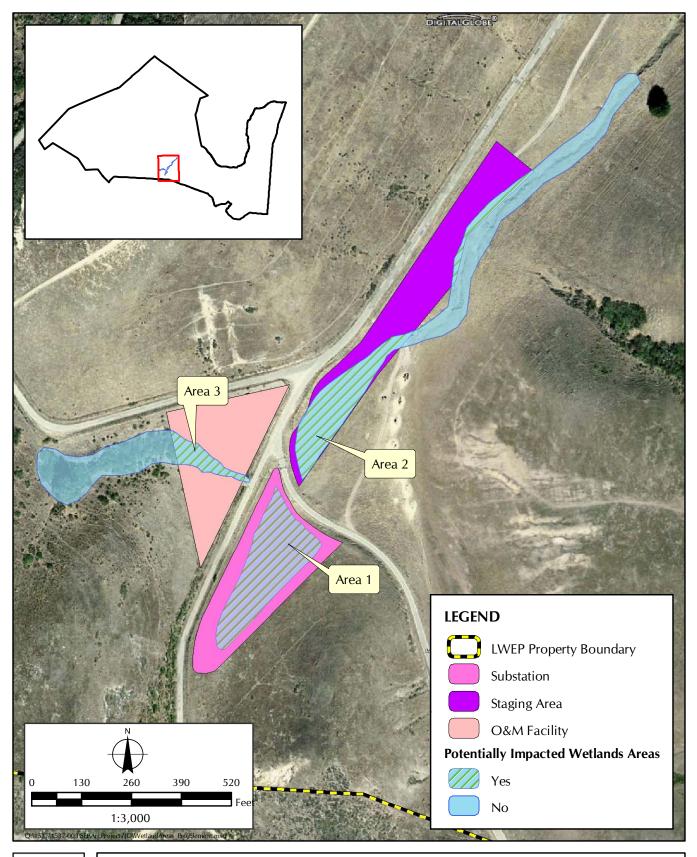
M

ATTACHMENT 4 Waters of the United States Survey Area





ATTACHMENT 5 Potential Wetlands Survey Area





ATTACHMENT 6 Potential Wetlands Areas with Project Elements



PHOTO 2 Looking Southwest from Wetlands Area 1



PHOTO 1 Looking Northeast from Wetlands Area 1

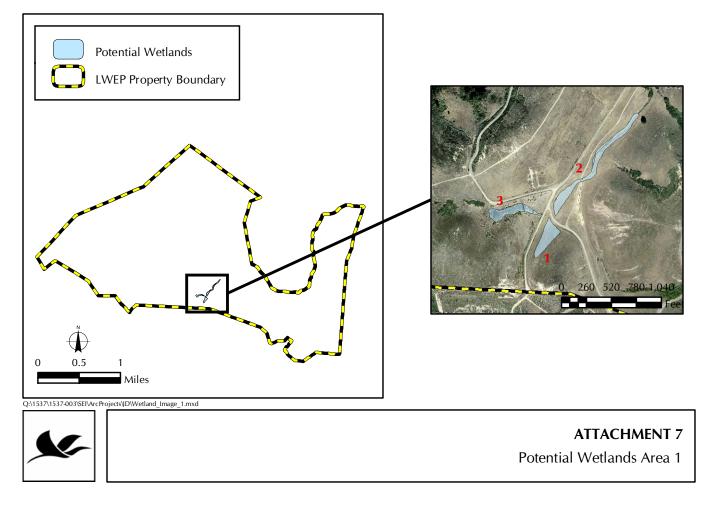




PHOTO 2 Looking Northeast into lower channel from Wetlands Area 2



PHOTO 1 Looking Northeast from Wetlands Area 2

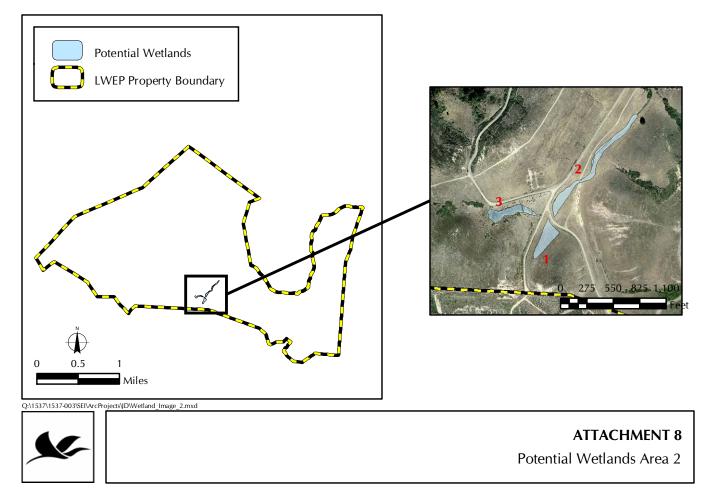
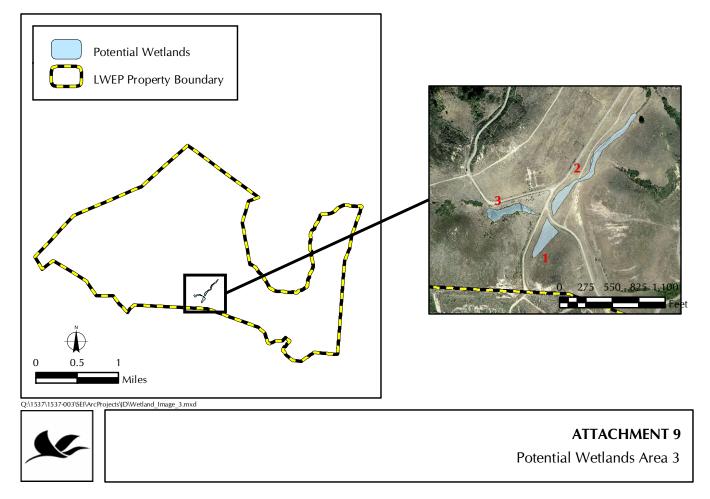


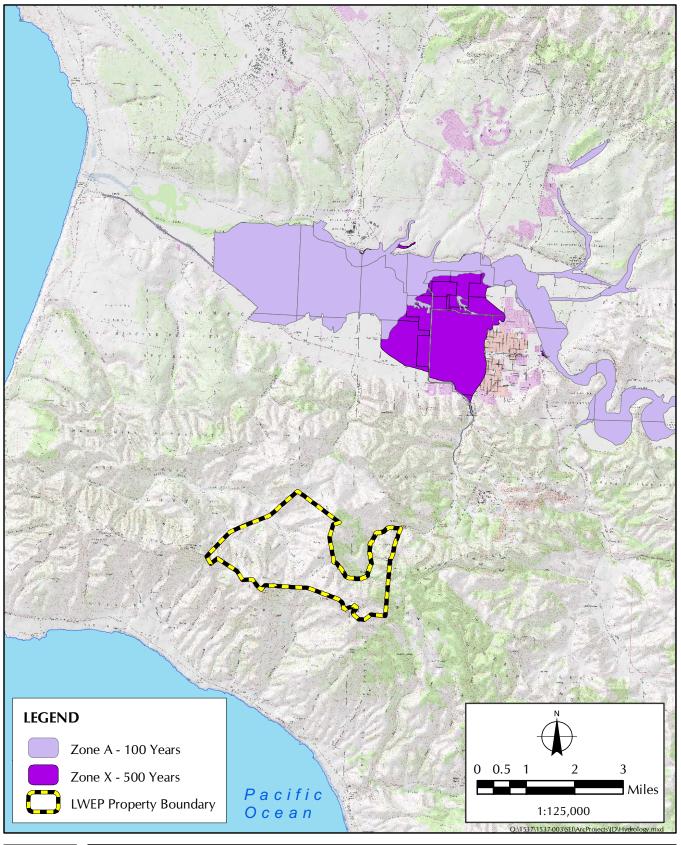


PHOTO 2 Looking West from Wetlands Area 3



PHOTO 1 Looking Southwest from Wetlands Area 3







ATTACHMENT 10 Flood Zones in Relation to the LWEP Property