



**DISTRICT PROPERTIES COMMITTEE MEETING AGENDA
TRABUCO CANYON WATER DISTRICT
32003 DOVE CANYON DRIVE, TRABUCO CANYON, CA
ADMINISTRATIVE FACILITY, CONFERENCE ROOM
APRIL 14, 2022 AT 5:00 PM**

COMMITTEE MEMBERS

Stephen Dopudja, Committee Chair
Ed Mandich, Committee Member
Don Chadd, Alternate Committee Member

DISTRICT STAFF

Fernando Paludi, General Manager
Michael Perea, District Secretary

AGENDA NOTE:

Trabuco Canyon Water District (District) will make this meeting available by telephone audio as follows:

Telephone Audio: 1 (669) 900-6833

Access Code: 818 1243 1650

Persons desiring to monitor the Committee meeting agenda items may download the Executive Committee meeting agenda and documents on the internet at www.tcwd.ca.gov. You may submit public comments by email to the Committee at mperea@tcwd.ca.gov. In order to be part of the record, emailed comments on meeting agenda items must be received by the District, at the referenced e-mail address, not later than 1:00 p.m. (PDT) on the day of the meeting.

CALL MEETING TO ORDER

VISITOR PARTICIPATION

Members of the public wishing to address the Committee regarding a particular item on the agenda are requested to complete a speaker card and submit it to staff. The Committee Chair will call on the visitor following the Committee's discussion about the matter. Committees do not constitute a quorum of the Board of Directors and Committee Members cannot make decisions on matters. The Committee makes recommendations only to the Board of Directors. Members of the public will be given the opportunity to speak to the Committee prior to making a recommendation on the matter. For persons desiring to make verbal comments and utilizing a translator to present their comments into English reasonable time accommodations, consistent with State law, shall be provided. Please limit comments to three minutes.

ORAL COMMUNICATION

Members of the public who wish to make comment on matters not appearing on the agenda are invited to identify themselves and encouraged to make comment at this time. The Committee Chair will call on the visitor following the Committee's discussion about the matter. Committees do not constitute a quorum of the Board of Directors and Committee Members cannot make decision on matters. The Committee makes recommendations only to the Board of Directors. Under the requirements of State Law, Committee Members cannot take action on items not identified on the agenda and will not make decisions on such matters. The Committee Chair may direct District Staff to follow up on issues as may be deemed appropriate. For persons desiring to make verbal comments and utilizing a translator to present their comments into English reasonable time accommodations, consistent with State law, shall be provided. Please limit comments to three minutes.

COMMITTEE MEMBER COMMENTS

REPORT FROM THE GENERAL MANAGER

**TRABUCO CANYON WATER DISTRICT
DISTRICT PROPERTIES COMMITTEE MEETING AGENDA | APRIL 14, 2022**

DISCUSSION MATTERS

ITEM 1: CONSIDERATION OF PROPOSALS FOR BIOLOGICAL RESOURCES ASSESSMENT AND MAPPING SERVICES

RECOMMENDED ACTION:

1. Committee to receive information at the time of the meeting.
2. Recommend the Board of Directors authorize the General Manager to contract with Psomas Engineering for Biological Resources Assessment and Mapping Services for a not to exceed amount of \$13,925 with a 10% contingency for a total of \$15,318 (Action Calendar).

OTHER MATTERS

ITEM 2: PRESENTATION TO THE COMMITTEE FROM FOREMOST PROPERTIES

RECOMMENDED ACTION:

Committee to receive presentation at the time of the meeting. No action required.

ADJOURNMENT

AVAILABILITY OF AGENDA MATERIALS

Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the Trabuco Canyon Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors are available for public inspection at the District Administrative Facility, 32003 Dove Canyon Drive, Trabuco Canyon, California (District Facility). If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available in the lobby area of the District Facility at the same time as they are distributed, except that, if such writings are distributed immediately prior to or during the meeting, they will be available in the Boardroom at the District Facility.

COMPLIANCE WITH THE REQUIREMENTS OF CALIFORNIA GOVERNMENT CODE SECTION 54954.2

In compliance with California law and the Americans with Disabilities Act, if you need special disability-related modifications or accommodations, including auxiliary aids or services in order to participate in the meeting, or if you need the agenda provided in an alternative format, please contact the District Secretary at (949) 858-0277 at least 48 hours in advance of the scheduled meeting. Notification 48 hours prior to the meeting will assist the District in making reasonable arrangements to accommodate your request. The District office is wheelchair accessible.

www.tcwd.ca.gov



**TRABUCO CANYON WATER DISTRICT
DISTRICT PROPERTIES COMMITTEE MEETING | APRIL 14, 2022**

DISCUSSION MATTERS

ITEM 1: CONSIDERATION OF PROPOSALS FOR BIOLOGICAL RESOURCES ASSESSMENT AND MAPPING SERVICES

Trabuco Canyon Water District (TCWD or District) owns certain facilities and properties within and outside of its service area for District-related purposes and uses. In April 2002, the District purchased approximately 120 acres of land in Trabuco Canyon that is more commonly known as the “Porter Ranch Property” (Property). This land primarily includes slopes and is only partially improvable but has remained largely unimproved to date. The Property is influenced and impacted by several factors, including but not limited to, onsite habitat and geologic features, limited road accessibility, adjacent residential neighborhoods, and specific planning control guidelines with local governmental agencies.

District staff issued an RFP to solicit proposals from professional environmental surveying consultants to identify and document the existing biological resources of the Property by performing the following tasks:

- **Literature Review and Database Search** - Review databases and literature of existing data to identify biological resources that could occur on or in the immediate vicinity of the property, including special-status plant and animal species, designated critical habitat, and natural communities of special concern
- **Biological Field Survey** - Perform a field reconnaissance survey to assess the potential presences of special-status plants, animals, and habitats within the property, including any aquatic features that may be under jurisdiction of governmental and regulatory agencies. Map the identified species and habitats using GPS equipment with sub-meter accuracy and provide photo documentation.
- **Biological Resources Report** - Prepare a Biological Resources Report that documents the existing biological resources of the property; the potential occurrence for special status species, potential state and federal jurisdictional waters and non-wetland waters; habitat classifications and mapping, including any critical habitat; wildlife corridors; and any local, state and federal resource management plans that may be applicable.

The District solicited proposals from three reputable profession firms, but received only one proposal from Psomas Engineering (Exhibit 1). District staff recommends the Board of Directors approve Psomas Engineering for this project and authorize the General Manager to contract with Psomas for the proposed amount with a ten-percent contingency. More information may be presented at the time of the meeting.

FUNDING SOURCE:

General Fund, Professional Services Budget

FISCAL IMPACT:

\$15,318

RECOMMENDED ACTION:

1. *Committee to receive information at the time of the meeting.*
2. *Recommend the Board of Directors authorize the General Manager to contract with Psomas Engineering for Biological Resources Assessment and Mapping Services for a not to exceed amount of \$13,925 with a 10% contingency for a total of \$15,318 (Action Calendar).*

EXHIBIT:

1. Psomas Engineering Proposal for Biological Assessment and Mapping Services

CONTACTS (staff responsible): PALUDI/PEREA

April 6, 2022

Michael Perea
Assistant General Manager
Trabuco Canyon Water District
32003 Dove Canyon Drive
Trabuco Canyon, CA 92679

Subject: Proposal for Biological Resource Assessment and Mapping Services for the Trabuco Canyon Water District 120-acre Project Site, Orange County, California

Dear Mr. Perea:

Psomas appreciates the opportunity to provide the Trabuco Canyon Water District (TCWD) with biological consulting services. We are providing a Scope of Work (Attachment A), Proposed Fee (Attachment B), and Fee Schedule (Attachment C) to conduct a literature review and database search, conduct field surveys, and prepare a Biological Resources Report for the TCWD's 120-acre Project Site (also known as the Porter Ranch Property). We have also provided a Work Schedule in Attachment D to meet the TCWD's needs as identified in the RFP.

FIRM PROFILE

Dedicated to balancing the natural and built environment, Psomas is a full service environmental, engineering, construction management, and land surveying firm. A California corporation founded in 1946, we currently provide services from 15 offices throughout California, Arizona, Washington, and Utah. The Psomas Team includes approximately 720 professional staff across our offices.

Psomas' corporate headquarters is located at 555 South Flower Street, Suite 4300, in Los Angeles, California. The local office that will be supporting the TCWD for this effort is located at 5 Hutton Centre Drive, Suite 300, in Santa Ana, California.

PSOMAS QUALIFICATIONS AND EXPERIENCE FOR PUBLIC AGENCIES

The Psomas Team is composed of over 50 individuals with up to 40 years of experience providing biological resources surveys and monitoring; habitat mitigation/restoration planning, implementation, and maintenance services; regulatory permitting; California Environmental Quality Act (CEQA) documentation; and civil engineering support. The staff assigned to the Psomas Team includes technical professionals with the local expertise and qualifications required to complete the full range of services required to support TCWD for this effort.

5 Hutton Centre Drive
Suite 300
Santa Ana, CA 92707

Tel 714.751.7373
Fax 714.545.8883
www.Psomas.com

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The Psomas Team has provided these types of services to multiple public agencies within the County of Orange, as well as to other private and public sector clients throughout Southern California. Examples of our relevant expertise and successful work for local County of Orange projects and other public agencies include:

- On-Call Biological Support Services for the Transportation Corridor Agencies (TCA), including (but not limited to) the Saddle Club property
- On-call biological resources support for the County of Orange on Trabuco Creek Road, Robinson Ranch Property, and other open space properties in the area managed by OC Parks
- Biological Baseline Surveys and Environmental Planning Support for Measure M Mitigation Properties (Orange County Transportation Authority) including support on their O'Neil Oaks and Ferber Ranch properties in the vicinity of the 120-acre TCWD property
- On-Call Biological and CEQA/NEPA Consultation Services (Irvine Ranch Water District)
- Trampas Canyon Dam and Reservoir CEQA and Updated Mitigation and Monitoring Program (Santa Margarita Water District)
- Alton Parkway Extension On-Site and Of-Site Habitat Mitigation and Monitoring Program
- San Diego Creek Reach II Operation and Maintenance Plan/Peters Canyon Wash Habitat Mitigation Program
- Avenida La Pata Habitat Mitigation Monitoring Program/Erosion Repair Biological Monitoring

These projects are just a small example of the expertise we can offer the TCWD and our ability to perform the required scope of services.

TEAM INTRODUCTION

We have assembled a team of technical professionals who are qualified to provide the required Scope of Work. Only staff members with direct experience providing services similar to the required Scope of Work have been placed in key roles of responsibility for this contract. The Psomas Team will be led by Amber Heredia with QA/QC support provided by Ann Johnston.

Ann Johnston, Vice President, will serve as Principal-in-Charge for the contact. Ann is a seasoned professional who has prepared or overseen the preparation of resource documentation for some of the most prominent and controversial projects in Orange County. Ann possesses a depth of knowledge in regulatory processes, extensive experience in impact analysis and document review, and a practical approach to problem-solving. Ann will also be responsible for conducting in-house quality assurance/quality control (QA/QC) reviews on biological technical studies.

Amber Heredia will serve as the Project Manager. She has over 25 years of experience in environmental documentation pursuant to the federal and State Endangered Species Act (FESA and CESA), CEQA, NEPA, and the federal Clean Water Act (CWA). Amber has extensive experience in managing complex projects that involved multiple local, state, and federal agencies and the concerned public. Her attention to detail and responsiveness provides for the highest level of service to her clients.

The Proposed Biologists who will be supporting Amber include Lindsay Messett and Allison Rudalevige. Resumes for key staff members for this effort have been included in Attachment E.

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CLIENT REFERENCES

Transportation Corridor Agencies (TCA)

Doug Feremenga, PhD, Manager, Environmental Planning

125 Pacifica, Suite 100, Irvine, CA 92618-3304 | (949) 754-3496 | dferemenga@thetollroads.com

On-Call Biological Support Services | Psomas staff have supported TCA projects including, but not limited to, the extension of the SR-241, improvements to the SR-73, and multiple mitigation properties. Services provided to TCA include conducting plant and special status wildlife surveys; preparing technical studies, evaluating mitigation sites, conducting nesting bird surveys, and providing monitoring as needed.

County of Orange

Jennifer Shook, Manager, OC Mitigation and Construction Compliance

2301 N. Glassell Street, Orange, CA 92865 | (714) 955-0615 | jennifer.shook@ocpw.ocgov.com

Alton Parkway Extension Project Habitat Mitigation Program | Psomas prepared the EIR; conducted vegetation mapping, general plant and wildlife surveys, focused surveys over multiple years, and biological monitoring; prepared Biological Technical Report, Biological Resources section of EIR, and Biological Assessment; and provided technical support throughout jurisdictional permitting and the streamlined Section 7 Consultation.

Orange County Transportation Authority

Dan Phu, Section Manager of Project Development or Leslie Hill Project Manager, Environmental Planning

550 South Main Street, Orange, CA 92863-1584 714.560.5907 | dphu@octa.net/ lhill@octa.net

Psomas provided Environmental Planning Support Services for the Measure M2 Freeway Environmental Mitigation Program (EMP). Our staff has a contract for Baseline Biological Surveys for Acquired Properties to perform biological resources surveys at 5 properties acquired by OCTA as part of the EMP. The purpose of the studies is to provide current and unbiased information regarding sites that have been acquired or are to be potentially acquired by OCTA with Measure M2 funds.

Irvine Ranch Water District (IRWD)

Kellie Welsh, Water Resources Manager

15600 Sand Canyon Avenue, Irvine, CA 92618 | (949) 453-5604 | welch@irwd.com

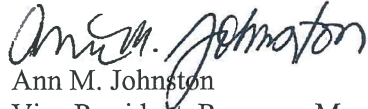
On-Call CEQA/NEPA Consultation Services | Prepared a variety of CEQA document for the IRWD including, but not limited to, IS/MND for the Irvine Lake Pipeline North Conversion Project, ILP-North Conversion Project Mitigation Monitoring, and Zone A to Rattlesnake Reservoir Pump Station IS/MND. Also prepared air quality analysis, biological resources assessment, cultural resources assessment, greenhouse gas analysis, and noise assessments.

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We are available to begin work upon written authorization to proceed. We look forward to assisting you with this opportunity. If you have any questions or need additional information, please contact me at 714.481.8046.

Sincerely,

P S O M A S



Ann M. Johnston
Vice President, Resource Management

Attachments: A – Scope of Work
B – Proposed Fees
C – Fee Schedule
D – Work Schedule
E – Resumes

ATTACHMENT A

**SCOPE OF WORK
BIOLOGICAL RESOURCE ASSESSMENT AND MAPPING SERVICES
120-ACRE PROJECT SITE (ALSO KNOWN AS THE PORTER RANCH PROPERTY)**

April 6, 2022

TASK 1 LITERATURE REVIEW AND DATABASE SEARCH

Prior to the field visit, Psomas will conduct a literature review to determine the species that may have potential to occur on the project site or immediate vicinity. The literature review will include: (1) a database search of the California Natural Diversity Database (CNDDDB); (2) a database search of the Electronic Inventory of the California Native Plant Society; (3) special status species lists from the California Department of Fish and Wildlife (CDFW); (4) critical habitat maps for each federally listed Endangered or Threatened species potentially occurring in the vicinity of the project site; (5) aerial photographs and topographic maps; and (6) any other biological studies conducted in the vicinity of the project site (if any are available).

TASK 2 BIOLOGICAL FIELD SURVEY

Psomas Biologists (including a botanist and wildlife biologist) will conduct a general walk-over survey of the project site. The botanist will identify and map the extent and distribution of vegetation types on the project site. The dominant species for each vegetation type will be recorded, and disturbances noted (if applicable). In addition, the Biologists shall identify any potential aquatic features that may be under jurisdiction of the US Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and CDFW (e.g., non-wetland waters, wetland waters, streambed, associated vegetation, and potentially non-jurisdictional features). Plant and wildlife species observed by the Biologists during the survey will be recorded in field notes. The location of any notable observations will be recorded with a Global Positioning System (GPS) unit or an iPad with sub-meter technology and site photographs. The Biologists will assess the potential for special status plant and wildlife species to occur based on observations and field notes taken during the survey. Any special status plant or wildlife species observed will be reported to the CNDDDB per requirements of the surveying Biologists' permits. The task does not include focused surveys for special status plant and wildlife species or a formal jurisdictional delineation.

TASK 3 BIOLOGICAL RESOURCES REPORT

A Biological Resources Report describing the biological resources on the project site will be prepared based on the results of the literature review and field survey. The report will describe: (1) the methodology used to conduct the biological survey; (2) a general description of the existing vegetation types (including a vegetation map) and associated wildlife; (3) the potential of the project site to support special status biological resources; (4) the potential presence of jurisdictional resources; (5) identification/mapping of any critical habitat, known or potential wildlife corridors, and any local, state and federal resource management plans that may be applicable to the property; (6) potential biological constraints on development; and (7) recommendations for further surveys, if necessary. This Scope of Work assumes one draft and one final version of the Biological Resources Report (incorporating one round of changes) delivered in PDF format. Additional revisions to the report will be billed on a time-and-materials basis and may require a contract adjustment.

ASSUMPTIONS AND EXCLUSIONS

- Focused surveys for special status plants or wildlife species are not included.
- The TCWD will provide right-of-entry documentation and any associated keys/lock codes required for entry to the project site.
- Any special status species observed will be reported to the CDFW's CNDDDB.
- The costs are estimates and each task will be performed on a time and materials, not to exceed, basis. Each cost has been estimated based on Psomas' current knowledge of the project. Client requests that would entail additional out-of-scope work efforts not explicitly described above will require an additional Scope of Work and associated fee estimate.
- Other services not expressly described are excluded.

ATTACHMENT B

**PROPOSED FEES
BIOLOGICAL RESOURCE ASSESSMENT AND MAPPING SERVICES
120-ACRE PROJECT SITE (ALSO KNOWN AS THE PORTER RANCH PROPERTY)**

April 6, 2022

PROFESSIONAL FEES

Name	Title	Rate	Hours	Total
TASK 1 - LITERATURE REVIEW AND DATABASE SEARCH				
Allison Rudalevige	Senior Botanist	\$140.00	2.0	\$280.00
Lindsay Messett	Senior Botanist	\$148.00	2.0	\$296.00
Amber Heredia	Project Manager	\$187.00	1.0	\$187.00
directs				\$-
Total Task 1				\$763.00
TASK 2 - BIOLOGICAL FIELD SURVEY				
Allison Rudalevige	Senior Botanist	\$140.00	13.0	\$1,820.00
Lindsay Messett	Senior Botanist	\$148.00	9.0	\$1,332.00
Amber Heredia	Project Manager	\$187.00	1.0	\$187.00
Mike Deseo	GIS Supervisor	\$145.00	3.0	\$435.00
directs				\$80.00
Total Task 2				\$3,854.00
TASK 3 - BIOLOGICAL RESOURCES REPORT				
Allison Rudalevige	Senior Botanist	\$140.00	22.0	\$3,080.00
Lindsay Messett	Senior Botanist	\$148.00	12.0	\$1,776.00
Amber Heredia	Project Manager	\$187.00	8.0	\$1,496.00
Mike Deseo	GIS Supervisor	\$145.00	8.0	\$1,160.00
Ann Johnston	Principal	\$240.00	3.0	\$720.00
Word Processing	WP	\$116.00	6.0	\$696.00
Technical Editor	Technical Editor	\$95.00	4.0	\$380.00
Total Task 3				\$9,308.00
Total Task 1 – 3				\$13,925.00

ATTACHMENT C

FEE SCHEDULE

**ENVIRONMENTAL SERVICES FEE SCHEDULE
EFFECTIVE THROUGH 12/31/2022**

<u>CLASSIFICATION</u>	<u>HOURLY BILLING RATES</u>
Principal-in-Charge	\$240–\$265
QA/QC Manager	\$215–\$265
Air Quality, Climate Change and Noise Manager	\$220
Habitat Restoration Manager	\$195
Regulatory Permitting Manager	\$200
Senior Project Manager, Environmental	\$180–\$230
Senior Environmental Planner	\$145–\$195
Senior Restoration Ecologist	\$145–\$180
Senior Project Manager/Biological Resources Manager	\$140–\$200
Senior Archaeologist/Paleontologist	\$140–\$155
Project Manager ¹	\$135–\$175
Environmental Planner	\$130–\$155
Regulatory Permitting Specialist	\$128–\$165
Senior Field Technician ²	\$125–\$145
Certified Arborist	\$120–\$160
Assistant Project Manager, Environmental	\$110–\$150
Senior Biologist/Senior Ecologist	\$120–\$150
Air Quality, Climate Change, and Noise Specialist	\$140–\$195
Environmental Analyst	\$100–\$135
Biologist	\$100–\$135
Archaeologist/Paleontologist	\$90–\$125
Field Technician ²	\$90–\$125
GIS Manager	\$145–\$155
Senior GIS Analyst	\$120–\$145
GIS Specialist	\$90–\$115
Graphic Artist	\$100–\$125
Technical Writer/Editor	\$95–\$120
Word Processor	\$100–\$120
Project Assistant/Administrative Assistant	\$80–\$100

REIMBURSABLE COSTS

Mileage	Federal Standard Mileage Rate
Reprographics (Outside)	at cost plus 10%
Reprographics (Inside)	Request Printing fee sheet
Other Out-of-pocket Expenses	at cost plus 10%
Subconsultants	at cost plus 10%
Plotting:	
Color Bond	\$1.50 per sq ft
Color Photo Gloss	\$2.50 per sq ft
Aerial Maps: Fewer than 500 acres	\$200
Aerial Maps: 500–1,500 acres	\$350
Aerial Maps: Greater than 1,500 acres	\$500

¹ Environmental Planning, Biological Resources and Cultural Resources

² Air Quality/Climate Change/Noise Analysis, Biological Resources, and Cultural Resources

ATTACHMENT D

**WORK SCHEDULE
BIOLOGICAL RESOURCE ASSESSMENT AND MAPPING SERVICES
120-ACRE PROJECT SITE (ALSO KNOWN AS THE PORTER RANCH PROPERTY)**

April 6, 2022

Task	Week
Consultant Services Start/TCWDA issues Notice to Proceed	0
Task 1. Literature Review and Database Search	1
Task 2 Biological Field Survey	2
Task 3 Biological Resources Report (Draft)	3-4
Comments from TCWDA on Draft	5
Task 3 Biological Resources Report (Final)	6

ATTACHMENT E

RESUMES



Ann Johnston – Psomas

Resource Management Team Leader/Principal

Ann Johnston is the Team Leader of Resource Management projects and a Principal of Psomas. She has 32 years of experience in biological resources inventories/evaluations; sensitive species surveys; mitigation monitoring; resource agency permitting and processing; conservation and strategic planning; and technical peer reviews. Ann's professional experience has focused on finding solutions to development challenges where potential impacts to biological resources may occur, and on the assessment and integration of biological data (particularly on sensitive species) into environmental documentation that complies with the requirements of CEQA, NEPA, FESA, and CESA. Over the past 29 years, she has managed and/or authored the biological resources sections of numerous EIRs; EISs; Biological Technical Reports; Biological Assessments (pursuant to Section 7 consultations with the USFWS); Natural Environment Studies (NESs) (pursuant to Caltrans guidelines); focused surveys for sensitive species; tree reports; resource management plans; mitigation monitoring reports; and general biological assessments and constraints analyses.

EDUCATION

1989/BA/Biology/California State University, Long Beach

PROFESSIONAL AFFILIATIONS

Women's Transportation Seminar, Orange County Chapter

IRWA Chapter 67

EXPERIENCE

With Psomas for 26 years; with other firms for 7 years

Experience

SR-241 Extension Project Biological Documentation and Permitting – Orange County, CA:

Principal-in-Charge/Project Manager for the proposed extension of State Route 241. This extension is a portion of the project that has also been referred to as the South Orange County Transportation Infrastructure Improvement Project or the Foothill Transportation Corridor-South project. Ann currently serves as an extension of the Transportation Corridor Agencies' (TCA) staff on the proposed extension of State Route 241. Ann has provided the TCA with technical and strategic assistance regarding the biological documentation and permitting processes with the following agencies: the Federal Highway Administration (FHWA), Caltrans, the USACE, the USFWS, the California Coastal Commission (CCC), the CDFW, the RWQCB, and the Marine Corps Base Camp Pendleton. Ann has worked on this project in varying capacities since 1990. She has served as the Lead Biologist on the project, conducting many plant and special status wildlife surveys; overseeing daily scientific activities of other biologists; ensuring approved methodologies are followed and results are accurately documented; and preparing/reviewing multiple versions of the project's Natural Environment Study (NES) in accordance with Caltrans guidelines. She was also responsible for preparing multiple Biological Assessments pursuant to consultation with the USFWS required for various alternatives of the project. Ann has also provided strategic planning for the TCA on biological resources issues related to design alternatives; the entitlement process; consensus building with government agencies; mitigation strategies; and negotiations with resource agencies.

State Route 73 Northbound Widening Project Biological and Cultural Resources Monitoring – Orange County, CA: Principal-in-Charge/Project Manager for the State Route (SR) 73 Northbound Widening

project. The improvements increased traffic lanes and bridge structures within the center median area. The project team was responsible for daily monitoring and for preparing the monitoring reports required as part of the environmental documentation. Ann managed biological and cultural resources monitoring during construction for the widening of the northbound lanes of SR-73.

**Santa Ana River Interceptor Sewer Line Maintenance Project
Biological Documentation and Permits – Yorba Linda, CA:**

Principal-in-Charge/Project Manager for this Orange County (OC) Sanitation District project, which involved maintenance activities of three grade stabilizers at Green River Golf Course, Gypsum Canyon, and Savi Ranch within the Santa Ana River. The emergency repairs of the Santa Ana River Interceptor (SARI) sewer line included restoration of existing grade stabilizers and scour pockets and the creation of new bank armor. Pre-construction surveys were conducted for special status wildlife species including the coastal California gnatcatcher and Santa Ana sucker. Ann facilitated resource agency permits for the OC Sanitation District and prepared biological resources documentation of the work areas before and after emergency operations. Ann oversaw the monitoring activities and assisted contractors with minimizing impacts within sensitive habitat potentially supporting Threatened and Endangered species. Ann also prepared a riparian Habitat Restoration Plan to provide guidelines for native habitat restoration as mitigation for temporary impacts associated with the 2008 Emergency Repairs project.

**North Yorba Linda Estates Biological Resources Documentation –
Yorba Linda, CA:**

Project Manager on 3 Shapell Industries project sites (Tentative Tracts 16208, 16209, and 16264) that total approximately 1,600 acres in Yorba Linda. Issues analyzed include potential impacts to coastal California gnatcatcher and special status habitats such as coastal sage scrub and riparian vegetation types. Ann prepared the biological resources documentation and coordinated focused survey efforts for the three project sites. She also prepared the Biological Assessment and mitigation programs for the project sites to prepare them for regulatory processing in coordination with the USFWS and the USACE.

Canyon Crest Jurisdictional Delineation – Brea, CA: Project Manager for this project to determine the existence, quantity, and type of resources under the jurisdiction of the USACE, RWQCB, and CDFW. The jurisdictional delineation was completed in accordance with the USACE's 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region and the Environmental Laboratory's 1987 Corps of Engineers Wetlands Delineation Manual regulatory compliance documents. Additionally, jurisdictional resources were evaluated using the CRAM to further characterize the ecological quality of these resources. The Jurisdictional Delineation Report will be used as the jurisdictional resources baseline and impact assessment document for obtaining an Approved Jurisdictional Determination or Preliminary Jurisdictional Determination from the regulatory agencies for the preparation and processing of regulatory permit notifications/applications.

**Ortega Highway Safety Improvements Arroyo Toad Surveys/Studies
and Invasive Species Control – Cleveland National Forest, CA:**

Ann Johnston (Continued)

Principal-in-Charge for the Ortega Highway Improvements project. The project involved the widening of the existing two-lane State Route (SR) 74 and improvements to San Juan Creek tributary drainage culverts on the Orange County side of the Cleveland National Forest. The project involved a three-year program to evaluate populations of the Endangered arroyo toad in adjacent San Juan Creek. The project required coordination with Caltrans, the U.S. Forest Service (USFS), the USFWS, the County of Orange, and the construction contractor to ensure that monitors were present during construction activities and that mitigation measures were enforced. As part of the mitigation program required by the USFWS Biological Opinion, annual focused surveys and population studies for the arroyo toad were conducted. An invasive aquatic species control program to remove exotic wildlife species posing an immediate threat to the continued existence of the arroyo toad in San Juan Creek was also instituted. Target species included the red-swamp crayfish, American bullfrog, and African clawed frog. The invasive species control program utilized an adaptive methodology that experimented with several different equipment types and techniques to determine the most efficient means of removal, as well as data collection and analysis of the predatory behavior of the bullfrog in San Juan Creek. Aerials were examined to identify perennial water sources that could facilitate exotic species recruitment within a three-mile radius of the project site. Surveys were conducted at suitable sites to determine target species' presence or absence, and the control program was implemented at occupied sites. Given the success of the program, the USFWS requested continued funding as mitigation for other Caltrans 2010 emergency projects on SR-74. Accordingly, focused surveys and invasive species control in San Juan Creek were funded through 2011.

Newport Banning Ranch Biological Resources Services – Newport Beach, CA: Biological Resources Manager for this development project. In support of the project's EIR, Psomas completed a general biological survey, including vegetation mapping; focused surveys for special status plants, fairy shrimp, coastal California gnatcatcher, least Bell's vireo, southwestern willow flycatcher, and burrowing owl; a jurisdictional delineation and report; a biological technical report. Biologists also prepared the biological resources portions of the IS and EIR, which included preparing mitigation measures to mitigate for impacts as a result of the development. Ann conducted peer reviews of technical studies prepared by the Project Applicant; prepared the Biological Technical Report; served as an extension of City staff; and prepared the Biological Resources Section of the EIR. She also provided strategic planning for the City on biological resources issues related to project design, the entitlement process, and mitigation strategies.

Sunset Ridge Park Project Biological Resources Services – Newport Beach, CA: Principal-in-Charge for this project, which proposed to develop the approximate 18.9-acre site with active and passive recreational uses. In support of the project's EIR, Psomas completed a general biological survey, including vegetation mapping; focused surveys for special status plants, coastal California gnatcatcher, least Bell's vireo, southwestern willow flycatcher, and burrowing owl; a jurisdictional delineation and report; and a biological technical report. Biologists also prepared the biological resources portions of the IS and EIR, which included preparing mitigation measures to

mitigate for impacts as a result of the park. Psomas also assisted the City in obtaining regulatory permits, including Section 7 permitting, a Section 404 permit, a Section 1602 permit, a Section 401 certification, a CDFW consistency determination, and a Coastal Development Permit. Once the Project was approved and construction began, Psomas reviewed the Lighting Plan and provided biological monitoring services. Ann oversaw all surveys on site and prepared the Biological Technical Report and Biological Resources Section for the project EIR. She also provided strategic planning for the City on biological resources issues related to project design, the entitlement process, mitigation strategies, and negotiations with resources agencies and the California Coastal Commission.

OC Invasive Plant Species Mapping – Orange County, CA: Team Leader on this project, which included mapping weeds located on OC Parks lands. Field surveys were conducted throughout OC Park lands including Ronald W. Caspers Wilderness Park, O'Neill Regional Park, Thomas F. Riley Wilderness Park, East Orange I and II, and Mountain Park. Collectively, these parks total over 13,700 acres. Data was collected electronically in the field using iPads to minimize time for data entry following fieldwork; data was also recorded on hard copy field forms as a backup. Over 817 acres of weed polygons were mapped during the effort.

Orange County Transportation Authority, Baseline Biological Surveys for Acquired Properties – Orange County, CA: Principal-in-Charge/Project Manager for this project, which has allowed the Orange County Transportation Authority (OCTA) to establish a biological baseline of seven acquired properties, with special attention on species covered under the draft OCTA National Community Conservation Plan (NCCP)/Habitat Conservation Plan (HCP). Surveys were conducted in a manner that allowed the greatest opportunity to document non-Covered Species and habitats that add value to a potential conservation area. The specific survey and documentation tasks undertaken to establish the biological baseline include literature review; general biological surveys and vegetation mapping; acquisition, restoration, and management criteria evaluation; special status plant surveys; special status wildlife surveys for coastal California gnatcatcher, coastal cactus wren, least Bell's vireo, southwestern willow flycatcher, and special status bat species; a jurisdictional delineation and CRAM evaluation; and Biological Technical Reports documenting the findings of all these surveys.



Amber Heredia – Psomas

Associate/Senior Project Manager, Biological Resources

Amber Heredia is a Senior Project Manager and Senior Biologist with 22 years of experience in the preparation of Biological Technical Reports to meet the requirements of the FESA, CESA, CEQA, NEPA, and the CWA. She has worked throughout Southern California from Kern County south through San Diego County with most of her work focused in Los Angeles, Orange, and Riverside counties. Amber has a wide range of knowledge on the plants, wildlife, and vegetation communities of Southern California, especially those listed as Threatened or Endangered. As Senior Project Manager, she has managed a variety of project types including transportation, dam/reservoir, flood control, utility, and private development projects. Amber has a thorough knowledge of protocol survey methodologies for each listed species within the region and is well-versed in the requirements of various multiple species habitat conservation plans including the Orange County Central Coastal Natural Communities Conservation Plan (NCCP)/Habitat Conservation Plan (HCP) and the Southern Subregion HCP; the Western Riverside County and Coachella Valley Multiple Species Habitat Conservation Plans (MSHCPs); the Metropolitan Bakersfield Habitat Conservation Plan (MBHCP); the Bakersfield Regional HCP/NCCP, the Kern Valley Floor HCP; and the West Mojave Plan. Amber has experience preparing Biological Technical Reports; Biological Constraints Reports; Biological Resources Reports; Focused Survey Reports; Biological Assessments; Natural Environment Studies (NESs) and Natural Environment Studies (Minimal Impact [MI]) for Caltrans; Biological Assessments/Biological Evaluations (BA/BE) and Management Indicator Species (MIS) Reports for the U.S. Forest Service (USFS), Habitat Assessments; and Determination of Biologically Equivalent or Superior Preservation (DBESP) Reports for the Western Riverside County MSHCP. As a Senior Biologist, Amber conducts vegetation mapping, general wildlife surveys, focused surveys for southwestern willow flycatcher, least Bell's vireo, coastal California gnatcatcher, western yellow-billed cuckoo, and burrowing owl, and assists with spring botanical surveys, herpetology surveys, and revegetation monitoring.

Experience

Alton Parkway Biological Resources Services – Irvine and Lake Forest, CA:

Biologist for the Alton Parkway Extension project, which extended Alton Parkway from Irvine Boulevard to State Route 241. Psomas completed general and focused plant and wildlife surveys; a Biological Technical Report and the Biological Resources Section of the EIR; and a Biological Assessment to evaluate impacts to the least Bell's vireo. Psomas also completed a jurisdictional delineation and assisted in the Section 7 jurisdictional permitting process with the USFWS. Amber assisted with vegetation mapping; conducted general wildlife surveys; assisted with special status plant surveys; conducted focused surveys for the least Bell's vireo and southwestern willow flycatcher; and managed focused surveys for special status plant species, coastal California gnatcatcher, least Bell's vireo, and

EDUCATION

2005/MS/Biology/University of California, Riverside

1998/BS/Ecology and Evolution/University of California, Santa Barbara

1998/BS/Environmental Studies/University of California, Santa Barbara

CERTIFICATIONS

Principal Investigator for Psomas' CDFW Entity Scientific Collecting Permit/SC-190240016/California Department of Fish and Wildlife/SC-190240016

10(a)(1)(A) Permit for coastal California gnatcatcher, southwestern willow flycatcher, and yellow-billed cuckoo/TE-148554-5/U.S. Fish and Wildlife Service/TE-148554-5

PROFESSIONAL AFFILIATIONS

Urban Land Institute Orange County/Inland Empire

Sea & Sage Audubon Society

American Ornithological Society

Southern California Botanists

The Wildlife Society

California Native Plant Society

EXPERIENCE

With Psomas for 23 years; with other firms for 2 years

Amber Heredia (Continued)

southwestern willow flycatcher over multiple years. Amber prepared the Biological Technical Report to evaluate impacts for the County portion of the project (from Irvine Boulevard to Commercentre Drive) and to provide mitigation measures consistent with the Central-Coastal NCCP/HCP; prepared the Biological Resources section of the EIR; and prepared the Biological Assessment. Amber also provided biological technical support for the jurisdictional permitting process and Section 7 Consultation with the USFWS. She also coordinated project design features to protect biological resources with the Nature Reserve of Orange County (NROC) and project engineers as required by the mitigation measures. Amber made presentations about the project to the NROC Executive Committee and the NROC Board discussing wildlife movement across the roadway and proposed mitigation.

Edinger Avenue Bridge Replacement Project Biological Resources Services – Orange County, CA:

Biological Resources Manager for this project, which replaced the Edinger Avenue Bridge over Bolsa Chica Channel to provide access to the Sunset Aquatic Regional Park. In support of the project's IS/MND, Psomas completed vegetation mapping surveys, general plant and wildlife surveys, a jurisdictional delineation, a CRAM analysis, and focused surveys for special status plant species, Belding's savannah sparrow, California least tern, and light-footed clapper rail. In addition, aquatic resources surveys for eelgrass, invasive algae, benthic macroinvertebrates (BMI), and essential fish habitat (EFH) were conducted. Potential biological constraints on project development were summarized in a Biological Resources Report and an NES was completed pursuant to Caltrans guidelines. Psomas also monitored construction activities during the bridge replacement. Amber oversaw the general plant and wildlife surveys, vegetation mapping, and preparation of a NESMI for geotechnical investigations to support the Coastal Development Permit application to the CCC. Amber also oversaw the preparation of the project's NES.

San Diego Creek/Peters Canyon Wash Habitat Mitigation Program – Irvine, CA:

Biological Resources Manager for this habitat mitigation program (HMP) project. The County of Orange acquired the 23-acre Peters Canyon Wash Mitigation Area parcel in order to provide compensation for impacts to riparian habitat associated with OC Public Works projects located in the San Diego Creek Watershed through the restoration and enhancement of existing riparian and upland resources at Peters Canyon Wash. The HMP discusses potential channel degradation and impairment to hydrological functions and the specifics of the mitigation program, including site-preparation guidelines; non-native vegetation removal and plant establishment methods; fuel modification guidelines; long-term site-maintenance and site-performance monitoring; and site status documentation. Additionally, the HMP addresses potential channel degradation and related impairment to hydrological functions by including guidelines for implementing an "Incised Template" in accordance with the Special Area Management Plan (SAMP) for the San Diego Creek Watershed. The project also includes a five-year maintenance and monitoring program. Monitoring activities consist of regular qualitative and quantitative site examinations and the development of site-status documentation. Amber oversaw general plant and wildlife surveys, vegetation mapping, and preparation of a Biological Constraints Report that included measures to protect coastal California gnatcatcher, least Bell's vireo, nesting

birds, and nesting raptors, which are all known to occur in the park. Amber also provides oversight for issues related to protection of Endangered species during invasive species removal and advises the County of Orange on their requirements under the Central-Coastal NCCP/HCP. (04/2007 to Present)

Orange County Public Works' San Diego Creek Reach II Operation and Maintenance Project – Irvine, CA: Biological Resources Manager for biological monitoring of annual vegetation and sediment removal along San Diego Creek Channel. Amber reviewed project permits and prepared a Worker Environmental Awareness Program (WEAP) training to be implemented by Biological Monitors; oversees preparation of pre-construction surveys needed (depending on season) and preparation of reports to document compliance with project permits.

Orange County Public Works' La Pata Extension Project – San Clemente, CA: Biological Resources Manager for daily biological monitoring of erosion issues at five repair sites along the recently constructed La Pata Avenue. She reviewed project permits and prepared a Worker Environmental Awareness Program (WEAP) training to be implemented by Biological Monitors, oversaw pre-construction surveys for nesting birds and western spadefoot, and oversaw the preparation of Daily Monitoring Forms that document compliance with project permits. (10/2019 to Present)

Irvine Ranch Water District On-Call CEQA/NEPA Consultation Services – Irvine, CA: Senior Biologist for this on-call contract. Task orders under this on-call included the Irvine Lake Pipeline North Conversion Project which required an IS/MND for the conversion of the Irvine Lake Pipeline from a water pipeline to a recycled water pipeline and subsequent Mitigation Monitoring for the project. Amber conducted and oversaw a focused survey for the coastal California Gnatcatcher and was the primary author for the Biological Resources Report for the IS/MND. In addition, she oversaw the biological surveys for the implementation of the Irvine Lake Pipeline Conversion project.

Wagon Wheel Creek Restoration Project Initial Study/Mitigated Negative Declaration, Biological Technical Report, Focused Surveys, and Jurisdictional Delineation – Coto De Caza, CA: Biological Resources Manager for the preparation of an IS/MND for this project, which included a number of improvements along Wagon Wheel Creek located within the General Thomas F. Riley Wilderness Park. The goal of the Wagon Wheel Creek Restoration Plan is to stabilize Wagon Wheel Creek for public safety and to protect the remaining oak and sycamore woodland and other riparian vegetation resources through the strategic placement of specific improvements within the creek. Amber conducted focused surveys for the coastal California gnatcatcher, least Bell's vireo, and southwestern willow flycatcher. She also coordinated vegetation mapping, general plant and wildlife surveys, focused surveys for special status plant species, and preparation of a jurisdictional delineation. Amber oversaw the preparation of a Biological Technical Report and the Biological Resources section of the IS/MND.

Biological Resources Construction Plan for the Middle Chiquita Canyon Water Facilities Project – Orange County, CA: Project Manager for Santa Margarita Water District's Middle Chiquita Canyon Water

Facilities project in southern Orange County. The project would construct a tank and multiple water lines to serve Rancho Mission Viejo's Planning Area 2 (just north of Ortega Highway). Amber prepared a memo comparing various alternative alignments to identify biological resources impacts of each alternative within the context of the Southern Subregion HCP. Analyzing potential impacts of each alternative assisted Santa Margarita Water District (SMWD) in selecting a preferred alignment. Because the preferred alignment was outside the previously analyzed alignment in the Southern Subregion HCP, the alignment had to be reviewed and approved by the USFWS. Once an alternative was approved, Amber prepared a Biological Resources construction Plan (BRCP) per the requirements of the Southern Subregion HCP to describe the pre-construction surveys and mitigation requirements of the Project.

Rancho Las Lomas Project Biological Services and Initial Study/Mitigated Negative Declaration – Portola Hills, CA:

Biological Resources Manager for a privately owned, 21.4-acre event facility in unincorporated Orange County. The project would complete the development of 33 structures that were started in the 1980s and the 1990s without approved permitting; allow for the construction of one additional structure; and allow for the replacement of three existing bridges. Primary project issues include (1) the retroactive documentation of previously completed site development and associated impacts; (2) the assessment of completed activities and impacts during the completion of the IS/MND and during CDFW, USACE, and RWQCB permitting procedures; (3) the incorporation of Foothill/Trabuco Specific Plan requirements into the project plans and into coast live oak management programs; and (4) the incorporation of non-native species control requirements set forth in CDFW permits into ongoing site landscape management procedures. Amber mapped vegetation on the site, conducted general plant and wildlife surveys, and prepared a Biological Resources Report, which contains mitigation measures consistent with the Central-Coastal NCCP/HCP and the Foothill/Trabuco Specific Plan (FTSP).

Chiquita Water Reclamation Plant Solar Panel Project Biological Resources Construction Plan/Monitoring – Orange County, CA:

Biological Resources Manager for Santa Margarita Water District's Chiquita Water Reclamation Plant (CWRP) Solar Panel Project in southern Orange County. The project involves installing solar panels sufficient to generate approximately one megawatt alternating current at the existing CWRP facility. Amber prepared the Biological Resources Construction Plan (BRCP) which described the project's impacts and construction measures to minimize impacts on biological resources; the BRCP was submitted to the USFWS and CDFW for review. Amber worked with Psomas' survey team to get Environmentally Sensitive Area (ESA) fencing in place prior to vegetation clearing, Amber also oversaw the biological monitoring effort throughout construction, which involved weekly visits to ensure that all construction staff were trained in the environmental sensitivities of the project site and surrounding vicinity and that ESA fencing remained intact during construction.



Lindsay Messett, CWB® – Psomas

Senior Biologist

Lindsay Messett, a Certified Wildlife Biologist® with a specialty in wildlife biology, has 21 years of experience in data collection, field research, resource management, and environmental document preparation. She has conducted focused surveys and habitat assessments throughout California for several wildlife species, including the Quino checkerspot butterfly, least Bell's vireo, coastal California gnatcatcher, southwestern willow flycatcher, western yellow-billed cuckoo, burrowing owl, arroyo toad, Santa Ana Sucker and desert tortoise. She has also worked with brown-headed cowbirds and several species of marine mammals. Lindsay has conducted general biological reconnaissance surveys and nesting bird surveys throughout a variety of habitats, including desert, chaparral, coastal sage scrub, riparian, and grassland. She has also performed construction monitoring for the coastal California gnatcatcher, least Bell's vireo, snowy plover, California least tern, red-legged frog, California tiger salamander, and desert tortoise. In addition, she has authored the biological resources sections of numerous EIRs, Biological Technical Reports, focused survey reports for sensitive species, and general biological assessments and constraints analyses.

Experience

Nohl Canyon Water Storage Tank Environmental Impact Report – Anaheim, CA: Biologist for this project which involved demolition and removal of the former Olive Hills Reservoir and construction of a new, partially buried, ten-million-gallon water tank on the same site. Lindsay conducted a biological survey to evaluate any potential biological constraints present on the project site and prepared a letter report.

Orange County Transportation Authority, Baseline Biological Surveys for Acquired Properties – Orange County, CA: Biologist for this project, which has allowed the Orange County Transportation Authority (OCTA) to establish a biological baseline of seven acquired properties, with special attention on species covered under the draft OCTA National Community Conservation Plan (NCCP)/Habitat Conservation Plan (HCP). Surveys were conducted in a manner that allowed the greatest opportunity to document non-Covered Species and habitats that add value to a potential conservation area. The specific survey and documentation tasks undertaken to establish the biological baseline include literature review; general biological surveys and vegetation mapping; acquisition, restoration, and management criteria evaluation; special status plant surveys; special status wildlife surveys for coastal California gnatcatcher, coastal cactus wren, least Bell's vireo, southwestern willow flycatcher, and special status bat species; a jurisdictional delineation and CRAM evaluation; and Biological Technical Reports documenting the findings of all these surveys. Lindsay conducted focused surveys for special status plant species, coastal California gnatcatcher, and coastal cactus wren; kept detailed field notes; and assisted in preparing a letter report to document the survey results.

EDUCATION

1999/BS/Ecology and Systematic Biology, Concentration: Wildlife Biology/California State Polytechnic University, San Luis Obispo

CERTIFICATIONS

10(a)(1)(A) Permit for Quino checkerspot butterfly, coastal California gnatcatcher, yellow-billed cuckoo, and southwestern willow flycatcher/No. TE067064-3/U.S. Fish and Wildlife Service/TE067064-5

Electrofishing Principles and Safety Certification/Smith-Root/

Independent Researcher for Psomas' CDFW Entity Scientific Collecting Permit/SC-182810004/California Department of Fish and Wildlife/SC-182810004

Scientific Collecting Permit permission to handle and relocate western spadefoot toad/SC-007530/California Department of Fish and Wildlife/007530

Certified Wildlife Biologist®/The Wildlife Society/

PROFESSIONAL AFFILIATIONS

The Wildlife Society

National Audubon Society

Western Field Ornithologists

EXPERIENCE

With Psomas for 16 years; with other firms for 6 years

Lindsay Messett,
CWB®
(Continued)

Serrano Creek Stabilization and Restoration Project Fifth Annual Mitigation Monitoring Report – Lake Forest, CA: Biologist for the project, which included annual quantitative surveys within the restoration site and the preparation of the Fifth Annual Mitigation Monitoring Report in collaboration with OC Parks staff, County maintenance personnel, and other project team members. Data collected during the annual surveys included native plant species coverage, diversity and density, and various habitat functional qualities; the data were used to determine compliance with required success criteria. Lindsay conducted pre-construction surveys for nesting birds to document breeding bird activity on the project site prior to construction activities and prepared a letter report upon completion of survey efforts. Lindsay also conducted biological monitoring during construction activities, which included invasive, non-native vegetation removal within Serrano Creek. The nesting bird surveys and biological monitoring were conducted in compliance with the requirements of the USACE 404 Permit, the RWQCB 401 Permit, and the CDFW Streambed Alteration Agreement.

San Diego Creek Siltation Removal Project Biological Technical Report, Focused Surveys, Wildlife Corridor Analysis, and Biological Monitoring – Newport Beach and Irvine, CA: Biologist for this long-term maintenance project to remove silt and vegetation periodically along the creek for flood-control purposes. Lindsay monitored construction activities in habitat known to be occupied by the least Bell's vireo. The purpose of the monitoring was to prevent any adverse impacts to vireo in the vicinity of construction activities.

Aliso and Wood Canyons and O'Neill Regional Parks Trail Repair Project, Biological and Environmental Services – Aliso Viejo and Mission Viejo, Orange County, CA: Biologist for the Orange County Parks Trail Repair project. The project involves six trail repair sites within two regional parks, four sites within Aliso and Wood Canyons Regional Park, and two sites within O'Neill Regional Park to improve public safety for trail users and to restore emergency vehicle access to the parks and surrounding areas. Lindsay conducted a survey for active nests within the work area immediately prior to the start of construction surveying for the project, which was located within coastal California gnatcatcher and least Bell's vireo habitat. Lindsay monitored all surveying activities prior to construction to ensure that workers stayed outside sensitive habitat and/or active nest locations. At the conclusion of monitoring efforts, she prepared a summary memo describing work efforts.

Caspers Wilderness Park Domestic Water Distribution Piping Replacement Project (East Ridge [Area 3]) Biological Constraints Report and Focused Surveys – San Juan Capistrano, Orange County, CA: Biologist for the Caspers Wilderness Park Domestic Water Distribution Piping Replacement project located at East Ridge (Area 3) in Caspers Wilderness Park. Lindsay conducted focused coastal California gnatcatcher surveys during the non-breeding season (September 1 - February 14) in order to document the presence or absence of this species on the project site. Surveys were conducted in accordance with the guidelines issued by the USFWS. A focused survey report was prepared once surveys were completed.

Lindsay Messett,
CWB®
(Continued)

South Orange County Transportation Infrastructure Improvement Project Focused Surveys – Orange County, CA: Biologist for the project to extend State Route 241 (SR-241) to Interstate 5 (I-5). Lindsay conducted focused coastal California gnatcatcher surveys during the breeding season (February 15 - August 30) to document the presence or absence of this species within the project site boundaries. Additionally, Lindsay monitored construction activities that involved geotechnical boring investigations within coastal sage scrub habitat occupied by the coastal California gnatcatcher. The purpose of the monitoring was to prevent any adverse impacts to gnatcatchers within the vicinity of the geotechnical boring locations.

Carbon Canyon Sediment Removal Project – Orange County, CA: Biologist for this project which included removal of sediment from Carbon Canyon, which was located immediately adjacent to least Bell's vireo habitat. Lindsay conducted pre-construction surveys for least Bell's vireo on the project site and, prior to each day's construction activities, surveyed all riparian habitat located within approximately 500 feet of the work areas to determine the presence or absence of the vireo in these locations and prepared a brief memo when surveys were completed. The survey area consisted of Carbon Canyon Creek and an unnamed drainage located just west of the park entrance, both of which were vegetated with willow scrub.

Storm Drain Reconstruction Project – San Clemente, CA: Biologist for the City of San Clemente's Storm Drain Reconstruction project. Lindsay conducted pre-construction surveys for nesting birds to document breeding bird activity on the project site prior to construction activities and prepared a brief memo once survey efforts were completed.

San Diego Creek Weed Eradication Monitoring Project – Orange County, CA: Biologist for the San Diego Creek project. Lindsay monitored the weed eradication activities at a restoration site along San Diego Creek in Orange County to maintain compliance with nesting season protection measures.

Transportation Corridor Agencies Geotechnical Borings Project – Orange County, CA: Biologist for the Transportation Corridor Agencies' geotechnical borings project. Lindsay monitored native and non-native vegetation removal associated with geotechnical borings. Most boring locations were within or immediately adjacent to coastal sage scrub vegetation.

Newport Banning Ranch Biological Resources Services – Newport Beach, CA: Biologist for this development project. In support of the project's EIR, Psomas completed a general biological survey, including vegetation mapping; focused surveys for special status plants, fairy shrimp, coastal California gnatcatcher, least Bell's vireo, southwestern willow flycatcher, and burrowing owl; a jurisdictional delineation and report; a biological technical report. Biologists also prepared the biological resources portions of the IS and EIR, which included preparing mitigation measures to mitigate for impacts as a result of the development. Lindsay conducted a focused burrow survey and focused burrowing owl surveys on the project site in accordance with the Burrowing Owl Survey Guidelines and Mitigation Guidelines prepared by the

Lindsay Messett,
CWB®
(Continued)

California Burrowing Owl Consortium. She also completed a focused survey report and assisted with a jurisdictional delineation on the project site.

Sunset Ridge Park Environmental Impact Report – Newport Beach, CA: Biologist for the preparation of an EIR for this project, which proposed to develop the approximate 18.9-acre site with active and passive recreational uses. Components of the park project would include one baseball field; two youth soccer fields; a playground area including a tot lot; a picnic area with shade structures, picnic tables, and seating areas; a memorial garden; an overlook area with a shade structure and seating; and restroom facilities. The park is also proposed to include three pedestrian access areas: one along West Coast Highway and two along Superior Avenue. Use 3NEW002301- BIO for project write up

Sunset Ridge Park Project Biological Resources Services – Newport Beach, CA: Biologist for this project, which proposed to develop the approximate 18.9-acre site with active and passive recreational uses. In support of the project's EIR, Psomas completed a general biological survey, including vegetation mapping; focused surveys for special status plants, coastal California gnatcatcher, least Bell's vireo, southwestern willow flycatcher, and burrowing owl; a jurisdictional delineation and report; and a biological technical report. Biologists also prepared the biological resources portions of the IS and EIR, which included preparing mitigation measures to mitigate for impacts as a result of the park. Psomas also assisted the City in obtaining regulatory permits, including Section 7 permitting, a Section 404 permit, a Section 1602 permit, a Section 401 certification, a CDFW consistency determination, and a Coastal Development Permit. Once the Project was approved and construction began, Psomas reviewed the Lighting Plan and provided biological monitoring services. Lindsay conducted a focused burrow survey and focused burrowing owl surveys on the project site in accordance with the Burrowing Owl Survey Guidelines and Mitigation Guidelines prepared by the California Burrowing Owl Consortium. She also completed a focused survey report and conducted focused coastal California gnatcatcher surveys during the breeding season (February 15-August 30) to document the presence or absence of this species on the project site. A focused survey report was prepared once surveys were completed.

Carbon Canyon Dam Sewer Habitat Mitigation Program and Annual Mitigation Monitoring Report – Olinda Heights/Brea, CA: Biologist for the Orange County Sanitation District's (OCSD's) HMMP that consisted of the installation of a 24-inch-diameter gravity sewer pipeline to service the Olinda Heights development and future developments. The HMMP provided mitigation for project impacts to USACE and CDFW jurisdiction and was developed in compliance with resource agency requirements. The HMMP included guidelines for initial installation and the five-year maintenance and monitoring program. The project also included performance of annual quantitative surveys and the development of the annual site-status report. Lindsay conducted biological monitoring in compliance with the requirements of the USACE 404 Permit, the USFWS Biological Opinion, and the CDFW Streambed Alteration Agreement.



Allison Rudalevige – Psomas

Senior Biologist

Allison Rudalevige is a Senior Biologist with 18 years of experience in the areas of biological and jurisdictional resources. She has experience conducting general and focused plant and wildlife surveys, vegetation mapping, mitigation monitoring, tree surveys, jurisdictional delineations (including use of the Arid West and Western Mountains, Valleys, and Coast regional supplements to the Wetland Delineation Manual and the Mapping Episodic Stream Activity [MESA] protocol), California Rapid Assessment Method (CRAM) analyses, and physical habitat analysis according to the Surface Water Ambient Monitoring Program (SWAMP) protocol. Her experience also includes the preparation of several types of environmental documents, including Biological Constraints Reports; Biological Technical Reports; Habitat Assessment Reports, Consistency Analyses, and Determination of Biologically Equivalent or Superior Preservation (DBESP) Reports for the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP); Natural Environment Studies (NESs) and NES (Minimal Impacts) for the California Department of Transportation (Caltrans); Focused Survey Reports; and Jurisdictional Delineation Reports. She has also prepared application packages for the U.S. Army Corps of Engineers (USACE) Section 404 Permit; the Regional Water Quality Control Board (RWQCB) Section 401 Water Quality Certification and Report of Waste Discharge; the California Department of Fish and Wildlife (CDFW) Notification of Lake or Streambed Alteration; and the California Coastal Commission (CCC) Coastal Development Permit applications. She has completed coursework in the areas of wetland, plant, vernal pool branchiopod, bird, and herpetofauna identification.

Experience

Saddle Club Property – Trabuco Canyon, CA: Senior Biologist to conduct baseline biological surveys for the Saddle Club property including special status surveys, wildlife movement documentation and a tree health inventory. She performed special status plant surveys; intermediate mariposa lily and chaparral nolina were observed. As part of this task, Allison kept detailed field notes, mapped species locations, and assisted in the preparation of the Biological Technical Report, including preparation of CNDDB forms.

Trabuco Creek Road Improvement Project Initial Study/Mitigated Negative Declaration – Orange County, CA: Regulatory Specialist for preparation of an IS/MND for this project, which would install a 2.8-mile road composed of disintegrated granite over aggregate base along the length of the project site and would improve 2 areas where the road crosses the creek and a tributary to the creek. The purpose of the proposed project is to improve (1) safety along the access road for the public; (2) access to the Cleveland National Forest; and (3) the Orange County Fire Authority's (OCFA) ability to perform fire-fighting and fire-suppression activities. She conducted field investigations to identify wetlands and other water resources under USACE,

EDUCATION

2005/MS/Biology/University of California, Riverside

2000/BS/Biology,
Zoology/California State University, Long Beach

CERTIFICATIONS

Scientific Collecting Permit/No. SC-183060003/California Department of Fish and Wildlife/SC-183060003

Plant Voucher Collecting Permit/No. 2081(a)-18-017-V/California Department of Fish and Wildlife/2081(a)-18-017-V

10(a)(1)(A) Permit, Conservancy fairy shrimp, longhorn fairy shrimp, Riverside fairy shrimp, San Diego fairy shrimp, vernal pool fairy shrimp, vernal pool tadpole shrimp/No. TE177979-2/U.S. Fish and Wildlife Service/TE177979-2

Trained Practitioner, California Rapid Assessment Method (CRAM), Riverine and Estuarine Wetland Modules/California Wetlands Monitoring Workgroup/

PROFESSIONAL AFFILIATIONS

California Native Plant Society
Southern California Botanists
Society of Wetland Scientists
Rancho Santa Ana Botanic Garden
Sea & Sage Audubon Society

EXPERIENCE

With Psomas for 18 years;

RWQCB, and CDFW jurisdictions. Allison subsequently prepared a Jurisdictional Delineation Report presenting the field delineation results.

**Oso Creek Barrier and Pump Station Improvement Project
Categorical Exemption and Categorical Exclusion – Mission Viejo, CA:**

Biologist for the preparation of a Categorical Exemption (CE) pursuant to CEQA and a Categorical Exclusion pursuant to NEPA for the Oso Creek Barrier and Pump Station Improvement project. The proposed project involved physical improvements to the non-storm flow diversion and pumping system along upper Oso Creek in Mission Viejo in order to decrease the effort and frequency of sediment removal; reduce pump bearing wear; enhance aesthetics along the 14th hole of the Mission Viejo Golf Course; and increase reliability, flexibility, and efficiency. The project involved federal grant funding from the U.S. Environmental Protection Agency (USEPA) and permits from the RWQCB, the CDFW, and the USACE. She assisted with a jurisdictional delineation to identify wetlands and other water resources under USACE, RWQCB, and CDFW jurisdictions and in the preparation of a Jurisdictional Delineation Report to present the delineation results. She also assisted in the preparation of applications for a USACE Section 404 Permit, an RWQCB Section 401 Water Quality Certification, and a CDFW Notification of Lake or Streambed Alteration. As part of this task, she summarized the biological resources and jurisdictional delineation data in the applications and organized project materials to meet each agency's requirements.

**Serrano Creek Stabilization and Restoration Project Fifth Annual
Mitigation Monitoring Report – Lake Forest, CA:**

Biologist for the project, which included annual quantitative surveys within the restoration site and the preparation of the Fifth Annual Mitigation Monitoring Report in collaboration with OC Parks staff, County maintenance personnel, and other project team members. Data collected during the annual surveys included native plant species coverage, diversity and density, and various habitat functional qualities; the data were used to determine compliance with required success criteria. Allison assisted with vegetation sampling for the fifth annual monitoring report. Survey methodology included line-intercept and belt transects at permanent transect locations and photographic documentation of the project site. Data were collected on a Personal Digital Assistant with the Restoration Studio program.

**San Diego Creek Wildlife Corridor Habitat Restoration Services –
Irvine, CA:**

Biologist for the San Diego Creek Wildlife Corridor Project. She prepared a wildlife corridor analysis; conducted a literature review of structures designed to facilitate wildlife movement; and prepared a memo that presented three alternative structural designs to project engineers. This information was used by the project team to select the best alternative for the project's site conditions. Allison also prepared an updated memo that outlined the project's selected design alternative and the benefits of this approach.

**Aliso and Wood Canyons and O'Neill Regional Parks Trail Repair
Project, Biological and Environmental Services – Aliso Viejo and
Mission Viejo, Orange County, CA:**

Regulatory Specialist for the Orange County Parks Trail Repair project. The project involves six trail repair sites within two regional parks, four sites within Aliso and Wood Canyons Regional Park, and two sites within O'Neill Regional Park to improve public safety for trail users and to restore emergency vehicle access to the parks and

Allison Rudalevige (Continued)

surrounding areas. She assisted with jurisdictional delineations to identify wetlands and other water resources under USACE, RWQCB and CDFW jurisdictions at four trail repair sites in Aliso and Wood Canyons Wilderness Park and at two sites in O'Neill Regional Park. A Jurisdictional Delineation Report was prepared for each park to present the delineation results. Allison also assisted in the preparation of applications for the USACE Section 404 Permit, RWQCB Section 401 Water Quality Certification, and CDFW Notification of Lake or Streambed Alteration for the project. She summarized the biological resources and jurisdictional delineation data within the applications and organized project materials to meet each agency's requirements.

Caspers Wilderness Park Domestic Water Distribution Piping Replacement Project (East Ridge [Area 3]) Biological Constraints Report and Focused Surveys – San Juan Capistrano, Orange County, CA: Biologist for the Caspers Wilderness Park Domestic Water Distribution Piping Replacement project located at East Ridge (Area 3) in Caspers Wilderness Park. Allison conducted general plant and wildlife surveys and vegetation mapping of three project areas and prepared a Biological Constraints Report that identified potential biological constraints on project development. Issues analyzed included potential impacts to special status plant and wildlife species and nesting birds.

Renewed Measure M2 Freeway Environmental Mitigation Program Fact Sheets – Orange County, CA: Biologist for the Renewed Measure M2 Freeway Environmental Mitigation Program fact sheets on the biological resources present at 29 potential mitigation sites. The fact sheets included data on project location; surrounding land uses; and vegetation types, jurisdictional resources, and special status species potentially present on the sites.

Biological Services for Walnut Canyon Reservoir – Anaheim, CA: Regulatory Specialist for this project. She performed a CRAM assessment of a 0.034-acre mitigation area in compliance with Section 401 Certification requirements. She prepared summary documentation that described the results of the CRAM evaluation. Final success criteria were achieved based on Psomas' recommendations for weed control and supplemental planting provided to the City following the 2016 CRAM evaluation of the site.

Ball Road Basin Park Project – Anaheim, CA: Senior Biologist for the Ball Road Basin Park EIR. The project proposes to develop a former 19.5-acre water recharge basin as an active park to serve the residents and workforce of the City. Project elements would include soccer playing fields, a children's play area, improvements to the regional riding and hiking trail, and meeting space. On-site parking and lighting elements are also proposed. The project requires an amendment to the Anaheim General Plan to redesignate the site from Open Space to Parks and a Zoning Reclassification from transition to public recreation. Allison conducted general plant and wildlife surveys, vegetation mapping, and field investigations to identify wetlands and other water resources under USACE, RWQCB, and CDFW jurisdictions. Allison subsequently prepared a Biological Constraints Report to evaluate potential impacts of the project.

East Garden Grove-Wintersburg Channel Project – Huntington

Beach, CA: Regulatory Specialist for this project, which will widen and stabilize approximately 1.8 miles of channel. Residential uses are immediately adjacent to both sides of the eastern reach of the channel; the western reach traverses the Bolsa Chica wetlands. She assisted with field investigations to identify wetlands and other water resources under USACE, RWQCB, and CDFW jurisdictions. A Jurisdictional Delineation Report presenting the results of the field delineation was also prepared.

Santiago Creek Dam Biological Constraint – Orange County, CA:

Senior Biologist for initial study environmental documentation including vegetation mapping for the Santiago Creek reservoir improvements. She conducted general plant and wildlife surveys, vegetation mapping, and field investigations to identify wetlands and other water resources under USACE, RWQCB, and CDFW jurisdictions. Allison subsequently prepared a Biological Constraints Report and Jurisdictional Delineation Report presenting the field survey results. Allison also conducted focused surveys for special status plant species; kept detailed field notes; and prepared a letter report to document survey findings.

Orange County Transportation Authority, Baseline Biological Surveys for Acquired Properties – Orange County, CA:

Senior Biologist for this project, which has allowed the Orange County Transportation Authority (OCTA) to establish a biological baseline of seven acquired properties, with special attention on species covered under the draft OCTA National Community Conservation Plan (NCCP)/Habitat Conservation Plan (HCP). Surveys were conducted in a manner that allowed the greatest opportunity to document non-Covered Species and habitats that add value to a potential conservation area. The specific survey and documentation tasks undertaken to establish the biological baseline include literature review; general biological surveys and vegetation mapping; acquisition, restoration, and management criteria evaluation; special status plant surveys; special status wildlife surveys for coastal California gnatcatcher, coastal cactus wren, least Bell's vireo, southwestern willow flycatcher, and special status bat species; a jurisdictional delineation and CRAM evaluation; and Biological Technical Reports documenting the findings of all these surveys. Allison mapped vegetation on the sites, conducted focused surveys for special status plant species, and performed jurisdictional delineation surveys. She prepared Letter Reports, Biological Technical Reports, and Jurisdictional Delineation Reports for the sites.

Talbert Lake Water Quality Improvement Project – Huntington

Beach, CA: Regulatory Specialist for project diverting flood-control water and incorporating a natural treatment system into the lake in Huntington Beach Central Park. She assisted with jurisdictional delineations to identify wetlands and other water resources under USACE, RWQCB, and CDFW jurisdictions and prepared a Jurisdictional Delineation Report to present the delineation results. Allison also assisted in the preparation of applications for the USACE Section 404 Permit, RWQCB Section 401 Water Quality Certification, and CDFW Notification of Lake or Streambed Alteration, which involved summarizing the biological resources and jurisdictional delineation data within the applications and organizing project materials to meet each agency's requirements.

**TRABUCO CANYON WATER DISTRICT
DISTRICT PROPERTIES COMMITTEE MEETING | APRIL 14, 2022**

OTHER MATTERS

ITEM 2: PRESENTATION TO THE COMMITTEE FROM FOREMOST PROPERTIES

RECOMMENDED ACTION:

Committee to receive presentation at the time of the meeting. No action required.

CONTACTS (staff responsible): PALUDI/PEREA